#### CONTRACT NO: HK/2011/07

## WANCHAI DEVELOPMENT PHASE II AND CENTRAL WANCHAI BYPASS SAMPLING, FIELD MEASUREMENT AND TESTING WORK (STAGE 2)

#### **ENVIRONMENTAL PERMIT NO. EP-122/2002/D**

#### **MONTHLY ENVIRONMENTAL MONITORING & AUDIT REPORT**

- JUNE 2015 -

**CLIENTS:** 

**Civil Engineering and Development Department** 

PREPARED BY:

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**CERTIFIED BY:** 

Raymond Dai

**Environmental Team Leader** 

DATE:

§ July 2015



Ref.: AACWBIECEM00\_0\_6887aL.15

14 July 2015

#### **AECOM Asia Company Limited**

By Post and Fax (2691 2649)

11/F, Tower 2
Grand Central Plaza
138 Shatin Rural Committee Road
Shatin, New Territories
Hong Kong

Attention: Mr. Conrad Ng

Dear Mr. Ng,

Re: Wan Chai Development Phase II and Central-Wan Chai Bypass

<u>Monthly Environmental Monitoring and Audit Report (June 2015) for EP-122/2002/D</u>

We would like to notify that our previous letter ref. AACWBIECEM00\_0\_6887L.15 dated 13 July 2015 is superseded by this letter.

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for June 2015 received by e-mail on 8 July 2015.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 4.6 of the captioned Environmental Permit.

Please do not hesitate to contact the undersigned should you have any queries.

Yours faithfully,

David Yeung

Independent Environmental Checker

C.C.

CEDD

Mr. Jason Cheung

by fax: 2577 5040

AECOM

Mr. Francis Leong / Mr. Stephen Lai

by fax: 2691 2649

Lam

Mr. Raymond Dai

by fax: 2882 3331

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#### **EXECUTIVE SUMMARY**

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report June 2015 specific for Environmental Permit no. EP-122/2002/D. The EM&A report is prepared by the Environmental Team (ET) employed under Contract No. HK/2011/07 Wan Chai Development Phase II and Central Wanchai Bypass Sampling, Field Measurement and Testing Works (Stage 2). This report presents the environmental monitoring findings and information recorded during the period of June 2015. The cut-off date of reporting is the last day of each reporting month.
- ii. In the reporting month, the principal work activities of the contract are included as follows:
   Contract no. HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at
   Wan Chai West
  - Removal of L-shaped wall
  - Installation of caisson seawall
  - Construction of ELS

#### **Noise Monitoring**

- iii. Continuous noise monitoring was conducted at ACL3 City Hall.
- iv. No action or limit level exceedances was recorded at ACL3 City Hall in the reporting month.
- v. Due to safety concern, the location of the continuous noise monitoring station at City Hall was finely adjusted to the roof of the City Hall, Low Block on 1 May 2013.

#### Air Quality Monitoring

- vi. 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring were conducted on every six days basis at ACL1 City Hall and ACL2a Contractor HK/2012/08 Site Office.
- vii. No action or limit level exceedances was recorded at ACL 1 City Hall and ACL2a Contractor HK/2012/08 Site Office in the reporting month.
- viii. Due to interruption of electricity supply, the 24hr TSP at ACL2a Contractor HK/2012/08 Site Office was rescheduled from 8, 18 and 29 June 2015 to 9, 19 and 30 June 2015 respectively.
- ix. Due to the defective electricity supply found at monitoring station ACL1 and the advice from City Hall Building Management, the air monitoring station ACL1 – City Hall was finely adjusted on 28 Feb 2014 to an alternate electricity supply.
- x. Due to the large scale renovation works at People's Liberation Army Headquarter, a Proposal for Relocation of Air Quality Monitoring Station at People's Liberation Army Headquarter (ACL2) was formally submitted to EPD on 4<sup>th</sup> November, 2013.
- xi. The Proposal for Relocation of Air Quality Monitoring Station at People's Liberation Army Headquarter (ACL2) was approved by EPD on 27 November 2013.



- xii. According to the approved proposal for relocation of Air Quality Monitoring station, the action and limit levels of ACL2a shall adopt the reference monitoring result from the baseline air monitoring report for EP/364/2009 in 22 April 2010 in which approved by EPD.
- xiii. The air quality monitoring at ACL2a Contractor HK/2012/08 Site Office was commenced on 7 December 2013.

#### Water Quality Monitoring

- xiv. As confirmed by WDII RSS, the dredging works, seawall modification works and other associated works undertaken at Central Reclamation Phase III by Contractor HK/2012/08 was commenced in late September 2014. According to the approved EM&A manual under EP-122/2002/D, water quality monitoring shall be implemented at the Central Reclamation Phase III works area accordingly to asses any potential water quality impact during the construction period.
- xv. Water quality monitoring at M5B and Culvert J were conducted three days per week during reporting period starting from 26 September 2014. The action and limit level exceedance of water quality monitoring are summarized in *Table 1*.
- xvi. Six action level exceedances of dissolved oxygen were recorded on 1, 8, 10, 19 and 22 June 2015 during ebb tide and 22 June 2015 during flood tide. One limit level exceedance of dissolved oxygen was recorded on 22 June 2015 during flood tide in this reporting period. After the investigation, the exceedances were concluded as non-project related. The details of recorded exceedance can be referred to the **Section 5.3**.

Table 1 Summary of Water Quality Monitoring Exceedances in Reporting Month

Contract	Water	Mid-flood			Mid-ebb				
No.	quality monitoring	D	0	S	S	D	0	S	S
	station	AL	LL	AL	LL	AL	LL	AL	LL
1.11/10040100	M5B <sup>2</sup>	1	1	0	0	5	0	0	0
HK/2012/08	Culvert J <sup>1</sup>	-	-	-	-	-	-	-	-
Total		1	1	0	0	5	0	0	0

Remarks<sup>1</sup>: Action or limit level are not applicable to reference station Culvert J.

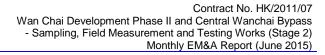
Remarks<sup>2</sup>: Turbidity measurement are reported as reference.

#### Complaints, Notifications of Summons and Successful Prosecutions

xvii. No environmental complaint was received in this reporting month.

#### Site Inspections and Audit

xviii. The Environmental Team (ET) conducted weekly site inspection for Contract no. HK/2012/08 in this reporting period. The Contractors rectified major observations and recommendations made during the audit sessions. No non-conformance was identified during the site inspections.





#### Future Key Issues

xix. In the coming reporting month, the principal work activities of the contract is anticipated as follows:

<u>Contract no. HK/2012/08 – Wan Chai Development Phase II – Central- Wan Chai Bypass at Wan Chai West</u>

- Placing of geotextile
- Construction of ELS



#### 1 INTRODUCTION

#### 1.1 Scope of the Report

- 1.1.1. Lam Geotechnics Limited (LGL) has been appointed take up the role as the Environmental Team (ET) under Environmental Permit no. EP-122/2002/D to implement the Environmental Monitoring and Audit (EM&A) programme as stipulated in the EM&A Manual of the approved Environmental Impact Assessment (EIA) Report for Central Reclamation Phase III Studies, Site Investigation, Design and Construction (Register No.: AEIAR-040/2001) since 1 May 2013.
- 1.1.2. This report documents the finding of EM&A works for Environmental Permit (EP) no. EP-122/2002/D, during the period of June 2015. The cut-off date of reporting is the last day of each reporting month.

#### 1.2 Structure of the Report

- **Section 1** *Introduction* details the scope and structure of the report.
- **Section 2 Project Background** summarizes background and scope of the project, site description, project organization and contact details of key personnel during the reporting period.
- Section 3 Status of Regulatory Compliance summarizes the status of valid Environmental Permits / Licenses during the reporting period.
- **Section 4** *Monitoring Requirements* summarizes all monitoring parameters, monitoring methodology and equipment, monitoring locations, monitoring frequency, criteria and respective event and action plan and monitoring programmes.
- **Section 5** *Monitoring Results* summarizes the monitoring results obtained in the reporting period.
- **Section 6 Compliance Audit** summarizes the auditing of monitoring results, all exceedances environmental parameters.
- Section 7 Cumulative Construction Impact due to the Concurrent Projects summarizes the relevant cumulative construction impact due to the concurrent activities of the concurrent Projects.

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**Section 8 Environmental Site Audit** – summarizes the findings of weekly site inspections undertaken within the reporting period, with a review of any relevant follow-up actions within the reporting period.

Section 9 Complaints, Notification of summons and Prosecution – summarizes the cumulative statistics on complaints, notification of summons and prosecution

Section 10 Conclusion



#### 2 PROJECT BACKGROUND

#### 2.1 Background

2.1.1 Central Reclamation Phase III - Studies, Site Investigation, Design and Construction (hereafter called "the Project") are Designated Project (DP) under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO). The Environmental Impact Assessment (EIA) Reports for Central Reclamation Phase III - Studies, Site Investigation, Design and Construction (Register No. AEIAR-040/2001) has been approved on 31 August 2001.

#### 2.2 Scope of the Project and Site Description

- 2.2.1. The design and construction of Central Reclamation Phase III involves the permanent reclamation and construction and operation of a trunk road and its road tunnel that is shown at *Figure 2.1*.
- 2.2.2. The key purpose of the study area encompasses the area of Victoria Harbour to the southeast of the new Outlying Islands Ferry Piers and north of Edinburgh Place and Lung Wui Road. The area extends eastward to Fenwick Pier Street and the Fleet Arcade, and includes the existing GPO, Star Ferry Piers, Queens Pier, City Hall, PLA Headquarters, Hong Kong Red Cross Headquarters building and the Tamar Site. The scope of the Central Reclamation, Phase III includes:
  - Reclamation and seawalls, roads and associated services, North Island Line
     Protection Works and Advance Trunk Road Tunnel (ATRT) for the CWB;
  - Reprovisioning of Star Ferry Pier, public landing steps, wallah wallah moorings, and motor boat/launch operators' kiosks;
  - External cooling water systems which consist of the cooling water pumping shells for future developments, and the reprovisioning of existing cooling water pumping stations and associated pipework systems and E&M works;
  - Reprovisioning of existing Leisure and Cultural Services Department (LCSD)'s facilities;
  - Provision of a flood relief path, stormwater culvert extensions, upgrading of hinterland stormwater drainage resulting from the reclamation, demolition of the existing waterfront structures and necessary landscaping;
  - The Hong Kong Station Extended Overrun Tunnel (EOT) and associated ventilation structures entrusted for construction within the CRIII works;
  - Reprovisioning of the Government Heliport at the Wan Chai PCWA and reprovisioning of the Wan Chai PCWA at Chai Wan Basin.
- 2.2.3. The project also contains various Schedule 2 DPs that, under the EIAO, require Environmental Permits (EPs) to be granted by the DEP before they may be either constructed

or operated. *Table 2.1* summarises the four individual DPs under this Project. *Figure 2.1* shows the locations of these Schedule 2 DPs.

Table 2.1 Schedule 2 Designated Projects under this Project

Item	Designated Project	EIAO Reference
DP1	Reclamation works	Schedule 2, Part I, A.7
DP2	Road P2 and other roads which are classified as primary/district distributor roads	Schedule 2, Part I, A.1
DP3	Central-Wanchai bypass (CWB)	Schedule 2, Part I, C.1
DP4	The North Island Line (NIL) Protection Works within CRIII	Schedule 2, Part I, A.7

2.2.4. The designated project work I (DP1) was awarded to China State-Leader Joint Venture HK/2012/08 as part of the Project works by the Civil Engineering and Development Department (CEDD). The construction work under Contract no. HK/2012/08 was commenced on 27 May 2013.

#### 2.3 Project Organization and Contact Personnel

- 2.3.1 Civil Engineering and Development Department is the overall project controllers for the Central Reclamation Phase III Project. For the construction phase of the Project, Project Engineer, Contractor(s), Environmental Team and Independent Environmental Checker are appointed to manage and control environmental issues.
- 2.3.2 The proposed project organization and lines of communication with respect to environmental protection works are shown in *Figure 2.2*. Key personnel and contact particulars are summarized in *Table 2.2*:

Table 2.2 Contact Details of Key Personnel

Party	Role	Post	Name	Contact No.	Contact Fax
AECOM	Engineer's Representative for WDII	Principal Resident Engineer	Mr. Frankie Fan	2587 1778	2587 1877
	Engineer's Representative for CWB	Principal Resident Engineer	Mr. Peter Poon	3922 3388	3912 3010
China State- Leader JV	Contractor under Contract	Project Director	C. N. LAI	9106 5806	2877 1522
	no. HK/2012/08	Project Manager	Mr. Eddie Chung	9189 8118	

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Party	Role	Post	Name	Contact No.	Contact Fax
		Site Agent	Mr. Keith Tse	9037 1839	
		Environmental Officer	Mr. James Ma	9130 9549	
		Environmental Supervisor	Mr. Y. L. HO	9856 5669	
ENVIRON Hong Kong Limited	Independent Environmental Checker (IEC)	Independent Environmental Checker (IEC)	Mr. David Yeung	3465 2888	3465 2899
Lam Geotechnics Limited	Environmental Team (ET)	Environmental Team Leader (ETL)	Mr. Raymond Dai	2882 3939	2882 3331

- 2.3.3 In this reporting month, the principal work activities of the contract is included as follows:

  <u>Contract no. HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at</u>

  Wan Chai West
  - Removal of L-shaped wall
  - Installation of caisson seawall
  - Construction of ELS
- 2.3.4 In coming reporting month, the principal work activities of the contract is anticipated as follows:
  Contract no. HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West
  - Placing of geotextile
  - Construction of ELS



#### 3 STATUS OF REGULATORY COMPLIANCE

#### 3.1 Status of Environmental Licensing and Permitting under the Project

3.1.1. A summary of the current status on licences and/or permits on environmental protection pertinent to the Project is shown in *Table 3.1*.

Table 3.1 Summary of the current status on licences and/or permits on environmental protection pertinent to the Project

Permits and/or Licences	Reference No.	Issued Date	Status
Environmental Permit	EP-122/2002/D	1 Sep 2009	Valid

3.1.2. The current status on licences and/or permits on environmental protection pertinent for contract no. HK/2012/08 showed in *Table 3.2.* 

Table 3.2 Cumulative Summary of Valid Licences and Permits under Contract no. HK/2012/08

Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Notification of Works Under APCO	355439	4 Feb 2013	N/A	Valid
Registration as a Chemical Waste Producer	5213-134-C3790- 01	8 Mar 2013	N/A	Valid
Billing Account under Waste Disposal Ordinance	7016883	18 Feb 2013	18 Jul 2017	Valid
Billing Account under Waste Disposal Ordinance (Dumping by Vessel)	-	-	-	-
Construction Noise Permit	GW-RS00223-15	3 Mar 2015	9 Mar 2015 to 8 Sep 2015	Valid
Water Discharge Licence	WT00018470-2014	6 Mar 2014	31 Mar 2019	Valid



Permits and/or Licences	Reference No.	Issued Date	Valid Period/ Expiry Date	Status
Dumping Permit (Type 1- Open Sea Disposal)	EP/MD/15-219	5 Feb 2014	10 Aug 2015	Valid
Dumping Permit  (Type 2- Confined Marine Disposal)	EP/MD/15-256	30 Mar 2015	2 May 2015	Expired

3.1.3. Implementation status of the recommended mitigation measures during this reporting month is presented in *Appendix 3.1*.



#### 4 MONITORING REQUIREMENTS

#### 4.1 Noise Monitoring

#### **NOISE MONITORING STATIONS**

4.1.1. The continuous noise monitoring station for the Project is listed and shown in *Table 4.1* and *Figure 4.1.*. *Appendix 4.1* shows the established Action/Limit Levels for the monitoring works.

Table 4.1 Continuous Noise Monitoring Stations

District	Station	Description
Central	ACL3	City Hall

#### NOISE MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.1.2. Continuous 24-hour noise monitoring shall be carried out at the designated monitoring stations. The following is an initial guide on the regular monitoring frequency for each station on a 24 hours daily basis when noise generating activities are underway:
  - One set of measurements between 0700 and 1900 hours on normal weekdays.
  - One set of measurements between 1900 and 2300 hours on normal weekdays and 0700 and 2300 hours on public holidays.
  - One set of measurements between 2300 and 0700 hours on next day on every day.
- 4.1.3. If construction works are extended to include works during the hours of 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring shall be carried out during respective restricted hours periods. Applicable permits under NCO shall be obtained by the Contractor.

#### **MONITORING EQUIPMENT**

- 4.1.4. As referred to in the Technical Memorandum ™ issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications shall be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level from before and after the noise measurement agrees to within 1.0 dB.
- 4.1.5. Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.



4.1.6. The sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency before deployment to the site and during each site visit. Measurements will be accepted as valid only if the calibration level from before and after the noise measurement agrees to within 1.0 dB.

#### 4.2 Air Quality Monitoring

#### AIR QUALITY MONITORING STATIONS

4.2.1. The air quality monitoring stations for the Project are listed and shown in *Table 4.2* and *Figure 4.1.* Appendix 4.1 shows the established Action/Limit Levels for the monitoring works.

Table 4.2 Air Quality Monitoring Stations

Station ID	Description		
ACL1	City Hall		
ACL2a	Contractor HK/2012/08 Site Office		

#### AIR QUALITY MONITORING PARAMETERS, FREQUENCY AND DURATION

- 4.2.2. One-hour and 24-hour TSP levels should be measured to indicate the impacts of construction dust on air quality. The 24-hour TSP levels shall be measured by following the standard high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50), Appendix B.
- 4.2.3. All relevant data including temperature, pressure, weather conditions, elapsed-time meter reading for the start and stop of the sampler, identification and weight of the filter paper, and any other local atmospheric factors affecting or affected by site conditions, etc., shall be recorded down in detail.
- 4.2.4. For regular impact monitoring, the sampling frequency of at least once in every six-days, shall be strictly observed at all the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs.

#### SAMPLING PROCEDURE AND MONITORING EQUIPMENT

- 4.2.5. High volume samplers (HVSs) in compliance with the following specifications shall be used for carrying out the 1-hour and 24-hour TSP monitoring:
  - 0.6 1.7 m³ per minute adjustable flow range;
  - Equipped with a timing / control device with +/- 5 minutes accuracy for 24 hours operation;
  - Installed with elapsed-time meter with +/- 2 minutes accuracy for 24 hours operation;
  - Capable of providing a minimum exposed area of 406 cm2;

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- Flow control accuracy: +/- 2.5% deviation over 24-hour sampling period;
- Equipped with a shelter to protect the filter and sampler;
- Incorporated with an electronic mass flow rate controller or other equivalent devices;
- Equipped with a flow recorder for continuous monitoring;
- Provided with a peaked roof inlet;
- Incorporated with a manometer;
- Able to hold and seal the filter paper to the sampler housing at horizontal position;
- Easily changeable filter; and
- Capable of operating continuously for a 24-hour period.
- 4.2.6. Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The concern parties such as IEC shall properly document the calibration data for future reference. All the data should be converted into standard temperature and pressure condition.

#### LABORATORY MEASUREMENT / ANALYSIS

- 4.2.7. A clean laboratory with constant temperature and humidity control, and equipped with necessary measuring and conditioning instruments to handle the dust samples collected, shall be available for sample analysis, and equipment calibration and maintenance. The laboratory should be HOKLAS accredited.
- 4.2.8. Filter paper of size 8" x 10" shall be labelled before sampling. It shall be a clean filter paper with no pinholes, and shall be conditioned in a humidity-controlled chamber for over 24-hours and be pre-weighed before use for the sampling.
- 4.2.9. After sampling, the filter paper loaded with dust shall be kept in a clean and tightly sealed plastic bag. The filter paper shall then be returned to the laboratory for reconditioning in the humidity controlled chamber followed by accurate weighing by an electronic balance with readout down to 0.1 mg. The balance shall be regularly calibrated against a traceable standard.
- 4.2.10. All the collected samples shall be kept in a good condition for 6 months before disposal.
- 4.2.11. Current calibration certificates of equipment are presented in *Appendix 4.2*.



#### 4.3 Water Quality Monitoring

#### WATER QUALITY MONITORING STATIONS

4.3.1 The water quality monitoring stations for the Project are listed and shown in *Table 4.3* and *Figure 4.1*. Appendix 4.1 shows the established Action/Limit Levels for the monitoring works.

Table 4.3 Water Quality Monitoring Stations

Station ID	Description	Easting	Northing			
Cooling Wate	Cooling Water Intakes					
M5B	Swire / Government Headquarters/ Tamar Development/ MTRCL and HSBC Headquarters	835169	816052			
Culverts (Reference Station)						
Culvert J	Culvert J Outfall Location	835082	816071			

#### WATER QUALITY PARAMETERS

- 4.3.2. Monitoring of dissolved oxygen (DO), turbidity and suspended solids (SS) shall be carried out at WSD flushing water intakes and cooling water intakes. DO and Turbidity are measured insitu while SS is determined in laboratory.
- 4.3.3. In association with the water quality parameters, other relevant data shall also be measured, such as monitoring location/position, time, sampling depth, water temperature, pH, salinity, dissolved oxygen (DO) saturation, weather conditions, sea conditions, tidal stage, and any special phenomena and work underway at the construction site etc.

#### SAMPLING PROCEDURES AND MONITORING EQUIPMENT

4.3.4. The interval between two sets of monitoring should not be less than 36 hours except where there are exceedances of Action and/or Limit Levels, in which case the monitoring frequency will be increased. *Table 4.4* shows the proposed monitoring frequency and water quality parameters. Duplicate in-situ measurements and water sampling should be carried out in each sampling event. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.

Table 4.4 Marine Water Quality Monitoring Frequency and Parameters

Activities	Monitoring Frequency <sup>1</sup>	Parameters <sup>2</sup>
During the 4-week baseline monitoring period	Three days per week, at mid- flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity
During marine construction works	Three days per week, at mid- flood and mid-ebb tides	Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity

Contract No. HK/2011/07 Wan Chai Development Phase II and Central Wanchai Bypass - Sampling, Field Measurement and Testing Works (Stage 2) Monthly EM&A Report (June 2015)

Activities	Monitoring Frequency <sup>1</sup>	Parameters <sup>2</sup>
After completion of marine construction works		Turbidity, Suspended Solids (SS), Dissolved Oxygen (DO), pH, Temperature, Salinity

#### Notes:

- For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides should be not less than 0.5m.
- 2. Turbidity should be measured in situ whereas SS should be determined by laboratory.

#### DISSOLVED OXYGEN AND TEMPERATURE MEASURING EQUIPMENT

- 4.3.5. The instrument should be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and use a DC power source. It should be capable of measuring:
  - a dissolved oxygen level in the range of 0-20 mg/l and 0-200% saturation
  - a temperature of 0-45 degree Celsius
- 4.3.6. It should have a membrane electrode with automatic temperature compensation complete with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary. (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).
- 4.3.7. Should salinity compensation not be build-in in the DO equipment, in-situ salinity shall be measured to calibrate the DO equipment prior to each DO measurement.

#### TURBIDITY MEASUREMENT INSTRUMENT

4.3.8. The instrument should be a portable, weatherproof turbidity-measuring instrument complete with comprehensive operation manual. The equipment should use a DC power source. It should have a photoelectric sensor capable of measuring turbidity between 0-1000 NTU and be complete with a cable (e.g. Hach model 2100P or an approved similar instrument).

#### **SAMPLER**

4.3.9. A water sampler comprises a transparent PVC cylinder, with a capacity of not less than 2 litres, and can be effectively sealed with latex cups at both ends. The sampler should have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth (e.g. Kahlsico Water Sampler or an approved similar instrument).

#### SAMPLE CONTAINER AND STORAGE

4.3.10. Water samples for suspended solids measurement should be collected in high-density polythene bottles, packed in ice (cooled to 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. as soon as possible after collection for analysis.

#### WATER DEPTH DETECTOR

4.3.11. A portable, battery-operated echo sounder shall be used for the determination of water depth at each designated monitoring station. This unit can either be handheld or affixed to the bottom of the workboat, if the same vessel is to be used throughout the monitoring programme.

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#### **SALINITY**

4.3.12. A portable salinometer capable of measuring salinity in the range of 0-40 ppt shall be provided for measuring salinity of the water at each of monitoring location.

#### MONITORING POSITION EQUIPMENT

4.3.13. A hand-held or boat-fixed type digital Global Positioning System (GPS) with waypoint bearing indication or other equivalent instrument of similar accuracy shall be provided and used during monitoring to ensure the monitoring vessel is at the correct location before taking measurements.

#### **CALIBRATION OF IN-SITU INSTRUMENTS**

- 4.3.14. All in-situ monitoring instrument shall be checked, calibrated and certified by a laboratory accredited under HOKLAS or equivalent before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring location.
- 4.3.15. For the on site calibration of field equipment by the ET, the BS 127:1993, "Guide to Field and on-site test methods for the analysis of waters" should be observed.
- 4.3.16. Sufficient stocks of spare parts should be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, etc.
- 4.3.17. Current calibration certificates of equipments are presented in *Appendix 4.2*.

#### LABORATORY MEASUREMENT / ANALYSIS

4.3.18. Analysis of suspended solids has been carried out in a HOKLAS accredited laboratory, ALS Technichem (HK) Pty Ltd. Water samples of about 1L shall be collected at the monitoring stations for carrying out the laboratory SS determination. The SS determination work shall start within 24 hours after collection of the water samples. The SS determination shall follow APHA 19ed or equivalent methods subject to the approval of IEC and EPD.

#### 5 MONITORING RESULTS

- 5.0.1. The environmental monitoring will be implemented based on the division of works areas of each designated project managed under different contracts with separate FEP applied by individual contractors. Overall layout showing work areas of various contracts, latest status of work commencement and monitoring stations is shown in <a href="Figure 2.1">Figure 2.1</a> and <a href="Figure 4.1">Figure 4.1</a>. The monitoring results are presented in according to the Individual Contract(s).
- 5.0.2. In the reporting month, the concurrent contract is:
  - Contract no. HK/2012/08 Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai West.
- 5.0.3. The environment monitoring schedules for reporting month and coming month are presented in *Appendix 5.1*.

#### 5.1 Noise Monitoring Results

- 5.1.1 Due to safety concerned, the location of the continuous noise monitoring station at City Hall was finely adjusted to the roof of the City Hall, Low Block on 1 May 2013.
- 5.1.2 The proposed division of noise monitoring stations is summarized in Table 5.1 below.

Table 5.1 Continuous Noise Monitoring Stations for Contract no. HK/2012/08

Location ID	District	Description
ACL3	Central	City Hall

Remarks: Continuous noise monitoring results and graphical presentation for ACL3 during restricted hours and night time period are for information only.

- 5.1.3 No action or limit level exceedances was recorded at ACL3 City Hall in the reporting month.
- 5.1.4 Continuous noise monitoring results measured in this reporting period are reviewed and summarized. Details of continuous noise monitoring results and graphical presentation can be referred to <u>Appendix 5.2.</u>

#### 5.2 Air Quality Monitoring Results

5.2.1 The proposed division of air quality monitoring stations are summarized in *Table 5.2* below.

Table 5.2 Air Quality Monitoring Station for Contract no. HK/2012/08

Station	Description	
ACL1	City Hall	
ACL2a	Contractor HK/2012/08 Site Office	

## Lam Geotech

### Lam Geotechnics Limited

- 5.2.2 Due to the defective electricity supply found at monitoring station ACL1 and the advice from City Hall Building Management, the air monitoring station ACL1 City Hall was finely adjusted on 28 Feb 2014 to an alternate electricity supply.
- 5.2.3 Due to the large scale renovation works at People's Liberation Army Headquarter, a Proposal for Relocation of Air Quality Monitoring Station at People's Liberation Army Headquarter (ACL2) was formally submitted to EPD on 4th November, 2013.
- 5.2.4 The Proposal for Relocation of Air Quality Monitoring Station at People's Liberation Army Headquarter (ACL2) was approved by EPD on 27 November 2013.
- 5.2.5 According to the approved proposal for relocation of Air Quality Monitoring station, the action and limit levels of ACL2a shall adopt the reference monitoring result from the baseline air monitoring report for EP/364/2009 in 22 April 2010 in which approved by EPD.
- 5.2.6 The air quality monitoring at ACL2a Contractor HK/2012/08 Site Office was commenced on 7 December 2013.
- 5.2.7 No action or limit level exceedances was recorded at ACL 1 City Hall and ACL2a Contractor HK/2012/08 Site Office in the reporting month.
- 5.2.8 The air quality monitoring results measured in this reporting period are reviewed and summarized. Details of air quality monitoring results and graphical presentation can be referred in *Appendix 5.3*.
- 5.3 Water Quality Monitoring Results
- 5.3.1 The proposed division of water quality monitoring stations are summarized in *Table 5.3* below.

Table 5.3 Water Quality Monitoring Station for Contract no. HK/2012/08

Station ID	Description		
Cooling Water In	takes		
M5B	Swire / Government Headquarters/ Tamar Development/ MTRCL and HSBC Headquarters		
Culverts (Reference Station)			
Culvert J	Culvert J Outfall Location		

5.3.2 Water quality monitoring results measured in this reporting period are reviewed and summarized. Detail of water quality monitoring results and graphical presentation can be referred in *Table 5.4* and *Appendix 5.4* 



- 5.3.3 Six action level exceedances of dissolved oxygen were recorded on 1, 8, 10, 19 and 22 June 2015 during ebb tide and 12 June 2015 during flood tide. One limit level exceedance of dissolved oxygen was recorded on 22 June 2015 during flood tide in this reporting period.
- 5.3.4 After checking with contractor, placing of rockfill was conducted under Contract HK/2012/08 on 1 June 2015. Contractor mitigation measures including the use of silt curtain was in place and silt curtain installed around intake monitoring station was generally in order while nearby culvert discharge was consistently observed. In view of above and no further exceedance was recorded in subsequent monitoring, it was considered that the exceedance was not project related.
- 5.3.5 After checking with contractor, slope trimming was conducted under Contract HK/2012/08 on 8 June 2015. Contractor mitigation measures including the use of silt curtain was in place and silt curtain installed around intake monitoring station was generally in order while nearby culvert discharge was consistently observed. In view of the above and no further exceedance was recorded in subsequent monitoring, it was considered that the exceedance was not project related.
- 5.3.6 After checking with contractor, placing of rockfill was conducted under Contract HK/2012/08 on 10 June 2015. Contractor mitigation measures including the use of silt curtain was in place and silt curtain installed around intake monitoring station was generally in order while nearby culvert discharge was consistently observed. In view of above and no further exceedance was recorded in subsequent monitoring, it was considered that the exceedance was not project related.
- 5.3.7 After checking with contractor, no marine work was conducted under Contract HK/2012/08 on 12 and 19 June 2015. Silt curtain installed around intake monitoring station was generally in order while nearby culvert discharge was consistently observed. In view of no marine activity was conducted and no further exceedance was recorded in subsequent monitoring, it was considered that the exceedances were not project related.
- 5.3.8 After checking with contractor placing of geotextile was conducted under Contract HK/2012/08 on 22 June 2015 during flood tide. Contractor mitigation measures including the use of silt curtain was in place and silt curtain installed around intake monitoring station was generally in order while nearby culvert discharge was consistently observed. In view of above and no further exceedance was recorded in subsequent monitoring, it was considered that the exceedance was not project related.
- 5.3.9 After checking with contractor placing of geotextile was conducted under Contract HK/2012/08 on 22 June 2015 during ebb tide. Contractor mitigation measures including the use of silt curtain was in place and silt curtain installed around intake monitoring station was generally in order while nearby culvert discharge was consistently observed. In view of above



and no further exceedance was recorded in subsequent monitoring, it was considered that the exceedance was not project related.

Table 5.4 Summary of Water Quality Monitoring Exceedance in Reporting Month

Contract	Water quality	Mid-flood			Mid-ebb				
No.	monitoring station	DO		SS		DO		SS	
		AL	LL	AL	LL	AL	LL	AL	LL
1.11/10040100	M5B <sup>2</sup>	1	1	0	0	5	0	0	0
HK/2012/08	Culvert J <sup>1</sup>	-	-	-	-	-	-	-	-
Total		1	1	0	0	5	0	0	0

Remarks<sup>1</sup>: Action or limit level are not applicable to reference station Culvert J.

Remarks<sup>2</sup>: Turbidity measurement are reported as reference.

#### 5.4 WASTE MONITORING RESULTS

5.4.1 Inert and non-inert C&D wastes were disposed in this reporting month. Details of the waste flow table are summarized in Table 5.5.

Table 5.5 Details of Waste Disposal for Contract no. HK/2012/08

Waste Type	Quantity this month	Cumulative Quantity- to-Date	Disposal / Dumping Grounds
Inert C&D materials disposed, m3	469 5782	1180 32914	TM38 TKO137
Inert C&D materials recycled, m3	NIL	NIL	NIL
Non-inert C&D materials disposed, m3	20	825	SENT Landfill
Non-inert C&D materials recycled, m3	NIL	NIL	NIL
Chemical waste disposed, kg	NIL	NIL	NIL



#### 6 COMPLIANCE AUDIT

6.0.1. The Event Action Plan for construction noise and air quality are presented in *Appendix 6.1*.

#### 6.1 Noise Monitoring

6.1.1. No action or limit level exceedance was recorded at ACL3- City Hall in this reporting month.

#### 6.2 Air Quality Monitoring

6.2.1. No action or limit level exceedance was recorded at ACL 1 – City Hall and ACL2a –Contractor HK/2012/08 Site Office in the reporting month.

#### 6.3 Water Quality Monitoring

6.4 Six action level exceedances of dissolved oxygen were recorded on 1, 8, 10, 19, 22 June 2015 during ebb tide and 12 June 2015 during flood tide. One limit level exceedance of dissolved oxygen was recorded on 22 June 2015 during flood tide in this reporting period. After the investigation, the exceedances were concluded as non-project related.

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

6.5.1 There was no non-compliance from the site audits in the reporting period. The observations and recommendations made in each individual site audit session were presented in Section 8.

#### 6.6 Summary of action taken in the event of and follow-up on non-compliance

6.6.1 There was no particular action taken since no non-compliance was recorded from the site audits in the reporting period.

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#### 7 CUMULATIVE CONSTRUCTION IMPACT DUE TO THE CONCURRENT PROJECTS

- 7.0.1. This section addresses the relevant cumulative construction impact due to the concurrent activities of the current projects including the Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) and Wan Chai Development Phase II Central Wan Chai Bypass at Wan Chai East (CWB Tunnel).
- 7.0.2. According to the Final EM&A report of Central Reclamation Phase III (CRIII) for Contract HK 12/02, the major construction activities were completed by end of January 2014 and no construction activities were undertaken thereafter and the water quality monitoring was completed in October 2011. As such, it is considered that there were no cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) undertaken by contractor HK12/02 in the reporting month.
- 7.0.3. According to the construction programme of Central-Wanchai Bypass at Wanchai West at the Central Reclamation Phase III area, removal of L-shape wall, installation of caisson seawall and ELS works were performed in June 2015 reporting month. As no project related exceedance were recorded during the reporting period, cumulative construction impact due to the concurrent activities of the current projects with the Central Reclamation Phase III (CRIII) was considered as insignificant.
- 7.0.4. According to the construction programme of Wan Chai Development Phase II, Central-Wan Chai Bypass and Island Eastern Corridor Link projects, the major construction activities under Wan Chai Development Phase II were tunnel works and ELS works at Wan Chai East and temporary reclamation, D-wall construction and ELS works at Wan Chai West. The major construction activities under Central-Wan Chai Bypass and Island Eastern Corridor Link Projects were bridge construction and road works at Central Interchange, land based bored pilling works and ELS works at Victoria Park, D- wall construction and ELS at TS3, IEC demolition and tunnel works at North Point area in the reporting month.
- 7.0.5. No significant air impact from construction activities was anticipated in the reporting month. Besides, no project related exceedance was recorded during the water, air and noise environmental monitoring events in the reporting month. Thus, it is evaluated that the cumulative construction impact from the concurrent projects including Central Reclamation Phase III (CRIII), Wan Chai Development Phase II (WDII), Central-WanChai Bypass (CWB), Island Eastern Corridor Link projects (IECL) was insignificant.

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#### 8 ENVIRONMENTAL SITE AUDIT

8.0.1. Five site inspections for Contract no. HK/2012/08 were carried out in the reporting month on 2,9, 16, 23 and 30 June 2015. The results of inspection and outcome are summarized in Table8.1

Table 8.1 Summary of Environmental Inspections for Contract no. HK/2012/08

Item	Date	Observations	Action taken by Contractor	Outcome
150609_1	9 June 2015	Spraying of water on dry surface shall be conducted in Portion 1.	Spraying of water was conducted and has mitigated the dust impact on site	Completion as observed on 16 June 2015
150616_1	16 June 2015	Drip tray shall be provided for oil container at Portion 1.	Oil container has been taken away and disposed at Portion 1.	Completion as observed on 23 June 2015
150630_1	30 June 2015	Chemical wastes in Portion 1 shall be properly stored in designated chemical storage	Pending Contractor for proper chemical waste storage	Pending for Contractor follow up action

#### 9 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 9.0.1. No environmental complaint was received in this reporting month
- 9.0.2. The details of cumulative complaint log and updated summary of complaints are presented in <a href="#Appendix 9.1">Appendix 9.1</a>
- 9.0.3. Cumulative statistic on complaints and successful prosecutions are summarized in *Table 9.1* and *Table 9.2* respectively.

Table 9.1 Cumulative Statistics on Complaints

Reporting Period	No. of Complaints
July 2013 – May 2015	1
June 2015	0
Total	1

Table 9.2 Cumulative Statistics on Successful Prosecutions

Environmental Parameters	Cumulative No. Brought Forward	No. of Successful Prosecutions this month (Offence Date)	Cumulative No. Project-to-Date
Air	0	0	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	0

#### 10 CONCLUSION

- 10.0.1. The EM&A programme was carried out in accordance with the EM&A Manual requirements, minor alterations to the programme proposed were made in response to changing circumstances.
- 10.0.2. The scheduled construction activities and the recommended mitigation measures for the coming month are listed in *Table 10.1*. The construction programmes of individual contracts are provided in *Appendix 10.1*.

Table 10.1 Summary of Key Construction Activities of Individual Contract(s) to be commenced in Coming Reporting Month

Contract No.	Key Construction Works	Recommended Mitigation Measures
HK/2012/08	<ul><li>Placing of geotextile</li><li>Construction of ELS</li></ul>	<ul> <li>Dust control during dust generating works;</li> <li>Implementation of proper noise pollution control; and</li> <li>Provision of protection to ensure no runoff out of site area or direct discharge into public drainage system.</li> </ul>

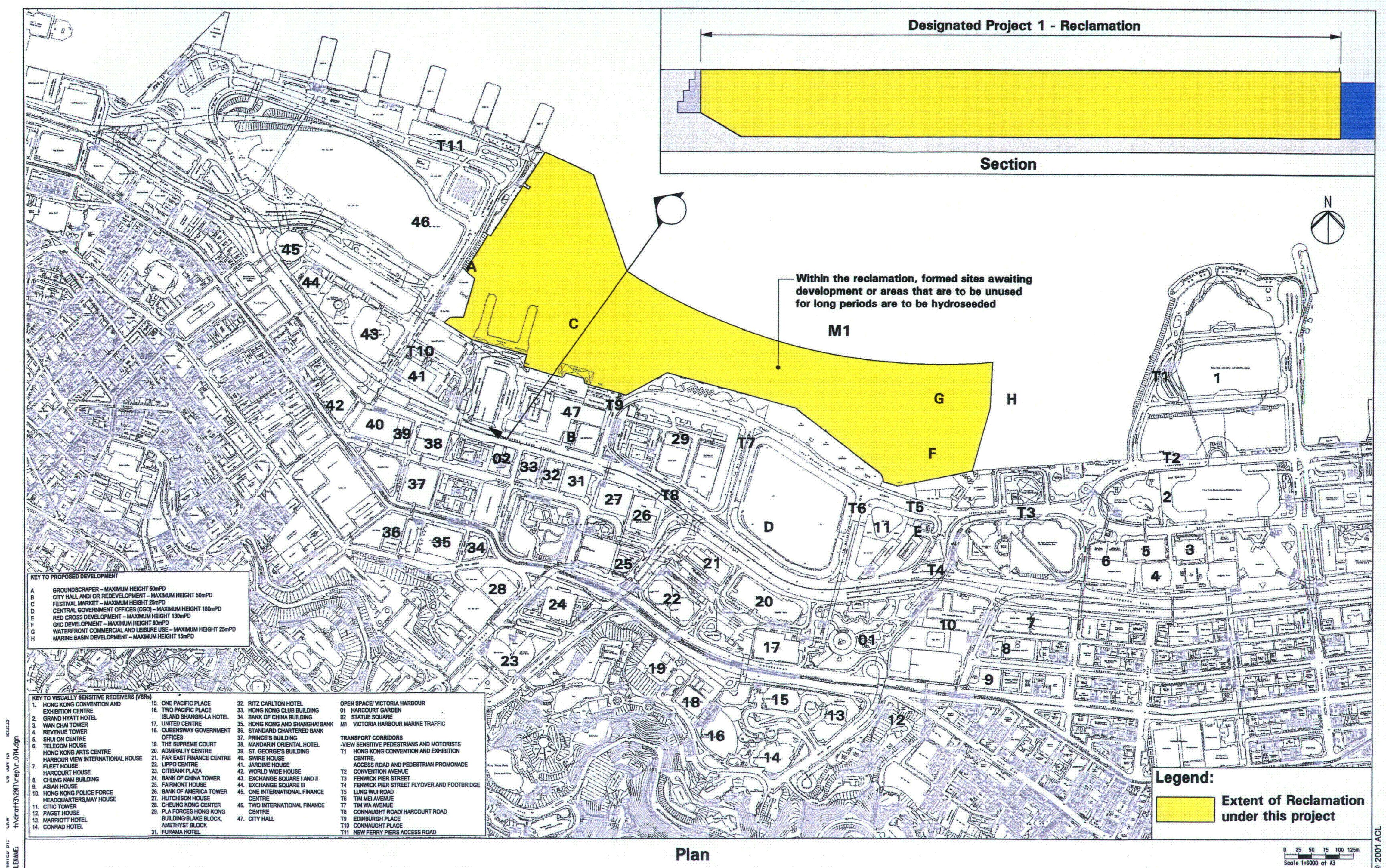
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Figure 2.1

Project Layout

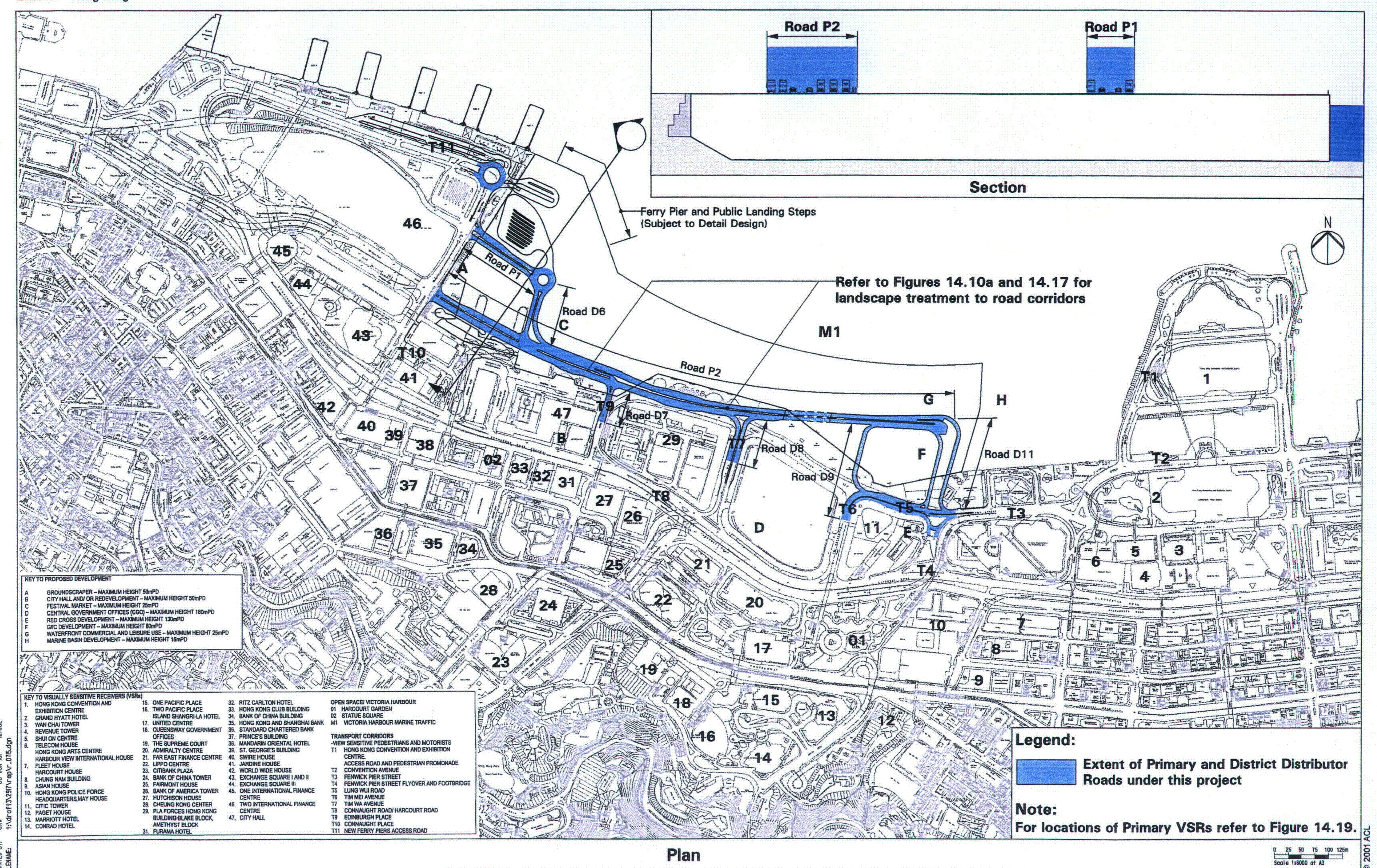
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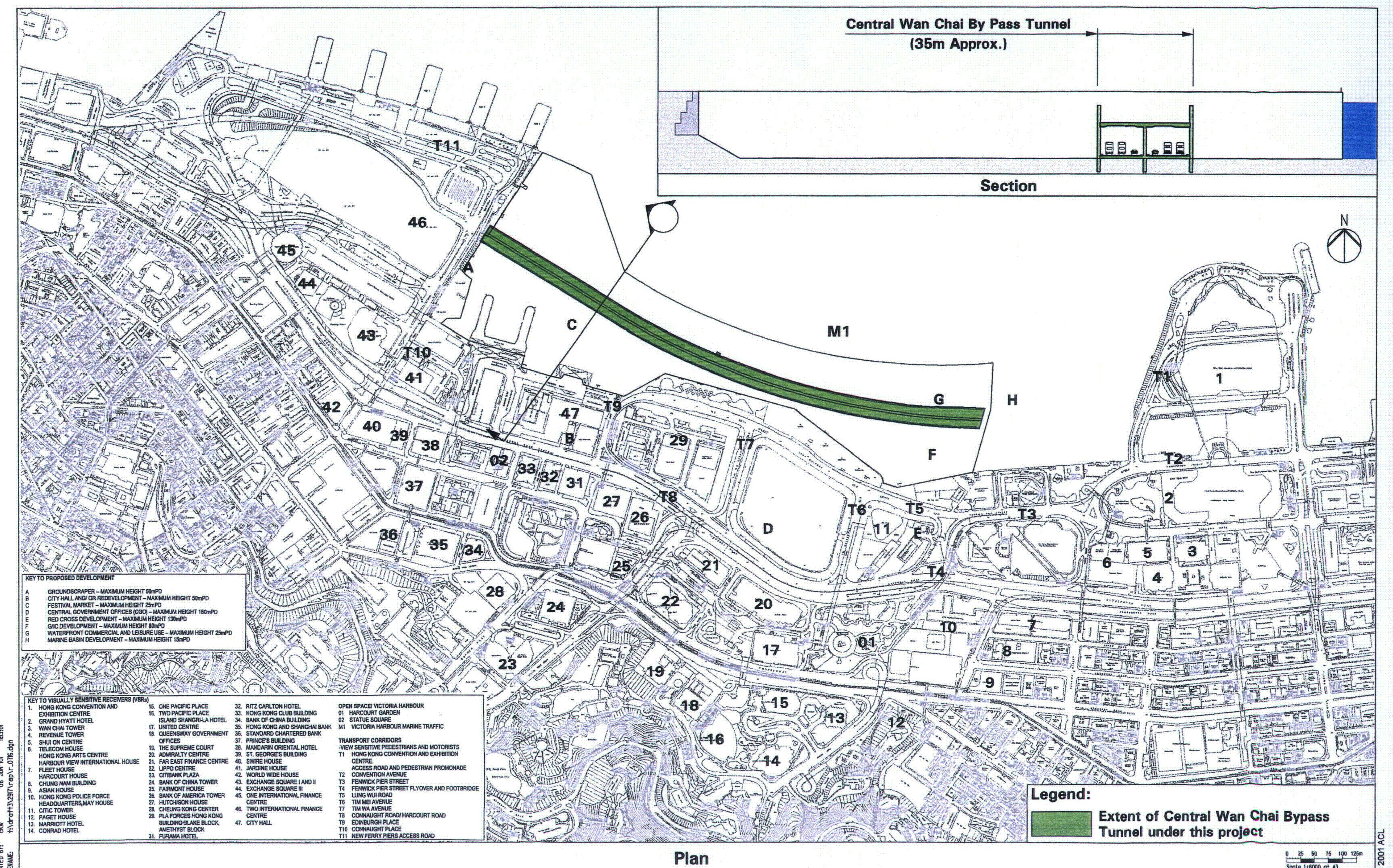


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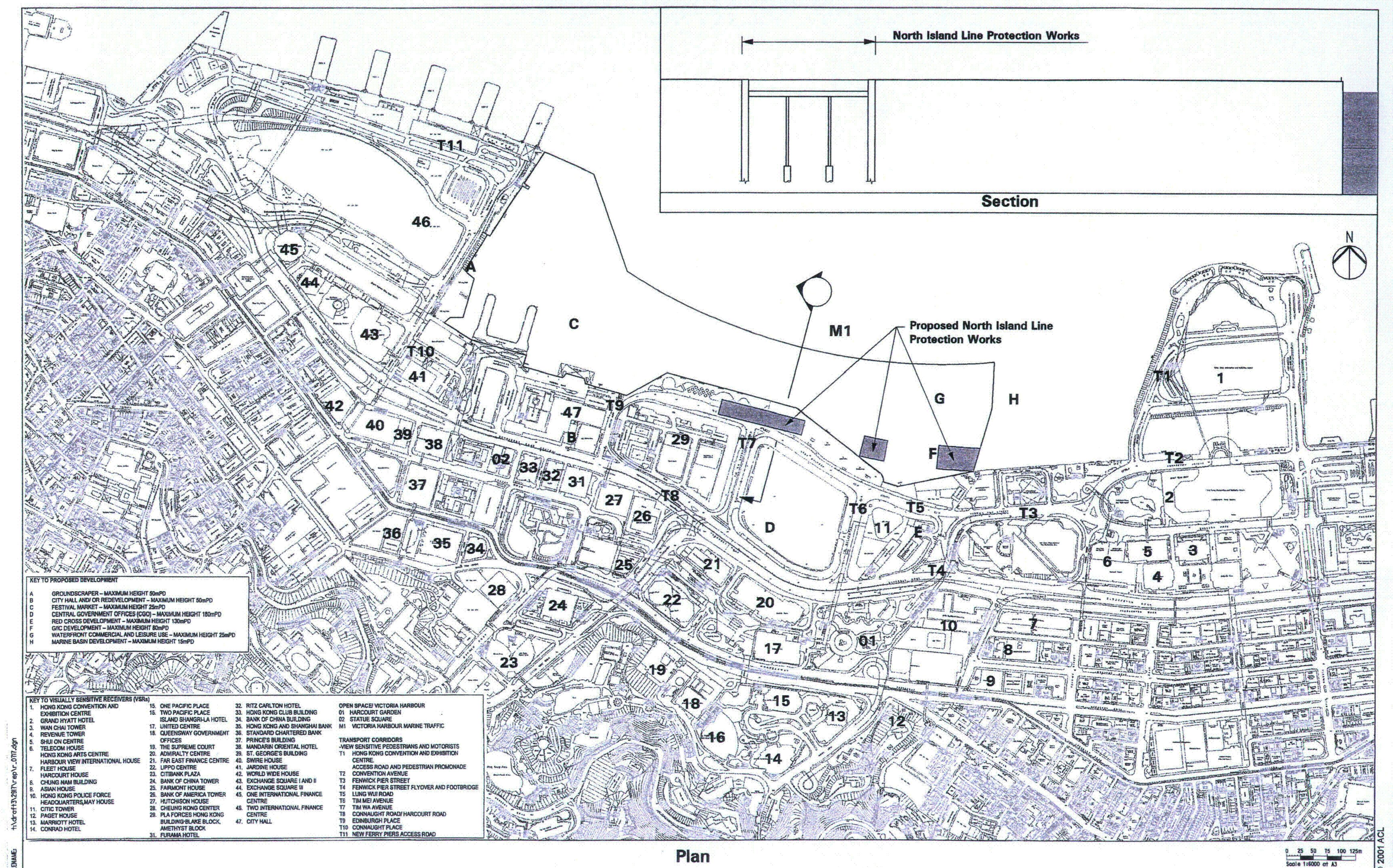


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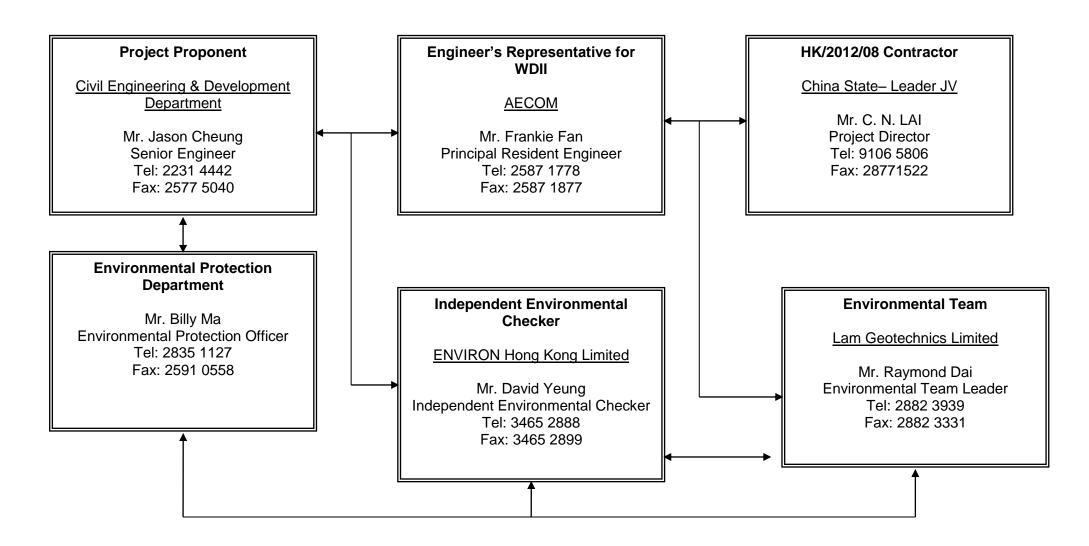
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### Figure 2.2

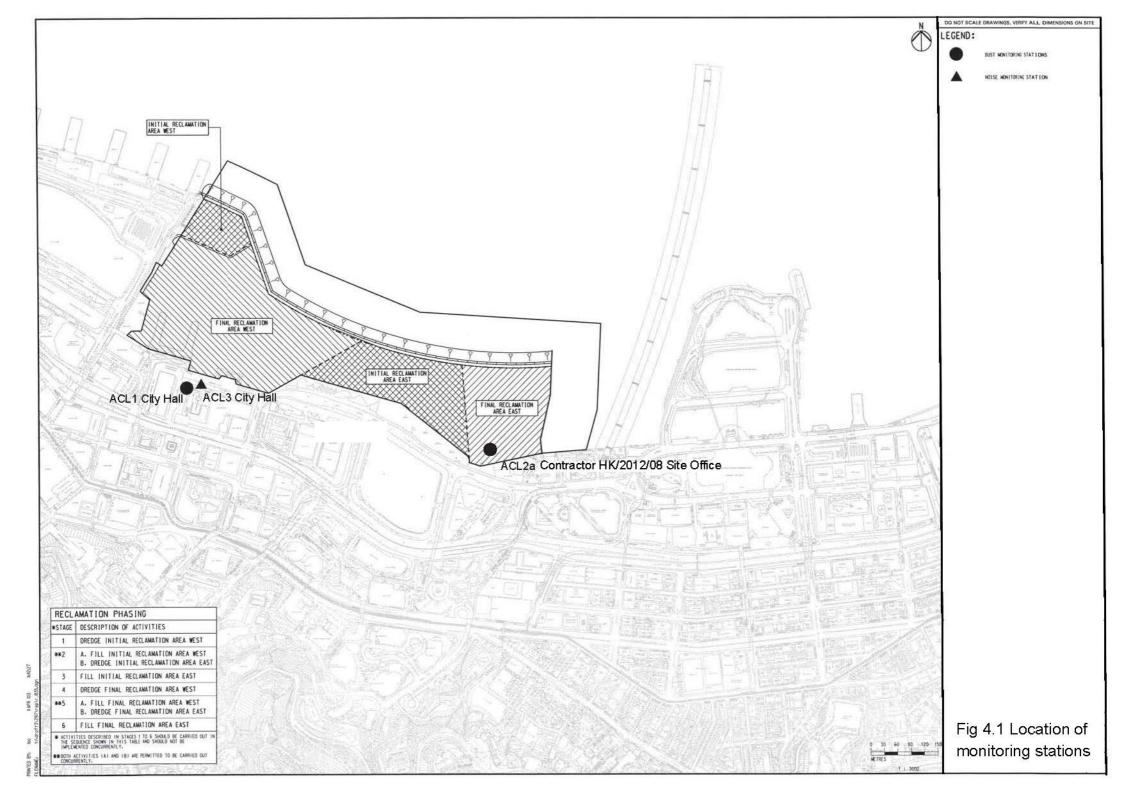
**Project Organization Chart** 

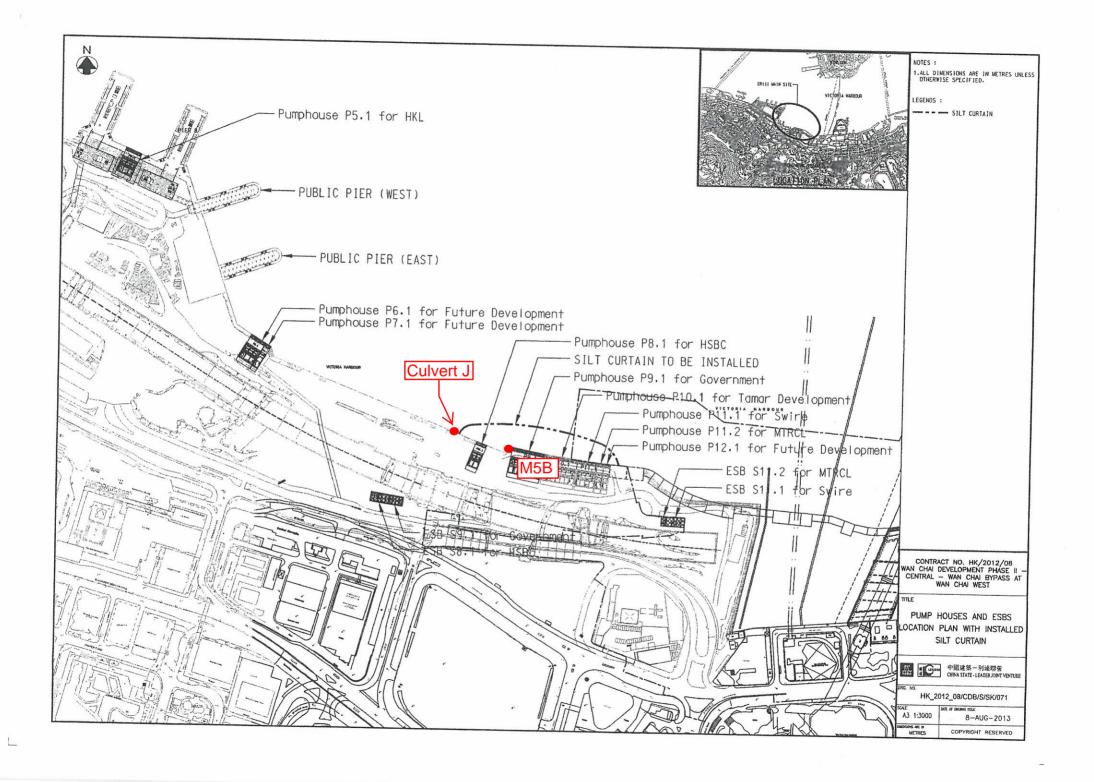
# **Project Organization Chart**



# Figure 4.1

Locations of Monitoring Stations





# Appendix 3.1

**Environmental Mitigation Implementation Schedule** 

# IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES

No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
1	Operational Traffic Noise*	The openings of ventilation buildings or ventilation shafts should be placed carefully and ideally should be such that they are not facing directly onto any NSR.	Various	Area Wide, Proposals at design stage for Implementation during construction	D/C	N/A	
2	Operational Air Quality	Air intakes for commercial/G/IC buildings should be placed such that they are at locations where contours indicate AQOs are met.	ArchSD/Private sector +	CRIII During development of sites Completion of CRIII	Development of CRIII	Carry forward to design stage	6
3	Operational Water Quality	Provision of grit traps for surface drainage	TDD's Contractor	New roads and paved areas  During construction  End of construction	С	P, R, A, C	7
4	Operational Landscape and Visual	Operational stage landscape and visual mitigation measures should include +					
		· Implementation of the Waterfront Promenade, Statue Square Corridor, Historic Corridor, Civic Corridor, Arts and Entertainment Corridor, Streetscape Network, Landscape Decks, and Supplementary Landscape Spaces;	Various	Area wide, proposals at design stage for implementation during construction	D/C	Р	
		-provision of a legible, integrated pedestrian circulation system linking major activity nodes, reinforcing links with adjoining areas, and providing an international quality hard and soft landscape treatment;					
		· provision of a grade separated pedestrian system to minimise vehicular/ pedestrian conflict;					
		provision of an integrated network of local and regional open spaces for passive and active recreation;					
		<ul> <li>preservation of selected architectural features;</li> <li>preservation insitu of existing significant vegetation, principally the two Banyan Trees</li> <li>flanking the Tamar Site;</li> </ul>					
		new roads to incorporate suitable streetscape amenity and landscape planting to minimise visual and environmental impacts;					



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
		<ul> <li>existing roads upgraded to 'marry' with the proposed landscape framework;</li> <li>Hydroseeding of reclamation if there is no immediate use of the site, periphery of the reclamation;</li> <li>Designated service corridors beneath footpaths to prevent potential impacts upon vegetation during services maintenance;</li> <li>Sensitively designed colour themes to footpath paving areas; and</li> <li>Sensitively designed seawall to enhance the recreational value of the future promenade can be included.</li> </ul>	Various	Area wide, proposals at design stage for implementation during construction	D/C	Р	-
5	Construction Noise Control Requirements	Use of the following quiet mechanical equipment for construction works: -air compressor; paver; hand held breaker; breaker, excavator mounted; bulldozer; concrete lorry mixer; concrete pump; crane; dump truck; excavator/ loader; grader; lorry; poker; road roller; vibratory roller;	TDD's Contractor	Works Area  During construction  End of construction	С	P, R, A, C	-
		Use of noise barriers (in the form if purpose built site hoarding of 3 - 5 m height and surface density of at least 7 kgm² with cranked top) for the following works:  Hong Kong Station Extended Overrun Tunnels to north of Central Barracks.  North Island Line Protection Works to north of Central Barracks;  Road/Drainage Works to north of Central Barracks;  Culvert F Piling Works to north of City Hall.	TDD's Contractor	Work Sites as stated Start of activity stated End of activity stated	С	P, A	
		Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	4
		Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction programme.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	4
		· Mobile plant, if any, should be sited as far away from noise sensitive facilities as possible.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	4

No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
		Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	4
		· Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from nearby noise sensitive facilities.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	4
		<ul> <li>Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activites.</li> </ul>	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	4
6	Construction Air Quality Control Requirements	· Strictly limit truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	6,7
		· Twice daily watering of the site with active operations when the weather and the work site are dry.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	6,7
		Watering during excavation and material handling.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	6,7
		· Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	6,7
		-Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	6,7
		· Covers for dusty stockpiles	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	6
		· All plant shall be maintained ot prevent any undue air emmissions	TDD's Contractor	Works Area	С	P,R,A,C	6



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures  During construction	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
				End of construction			
7	Construction W ater Quality Control Requirements	Specific Measures Associated with Dredging Works  the use of closed clamshell (water-tight) grab dredgers to remove seriously contaminated material such that the amount of SS and other pollutants released from the marine mud and pore water can be minimised;  the prohibition of stockpiling of any moderately or seriously contaminated marine sediment, and careful control of stockpiling of any uncontaminated sediment to prevent runoff, resuspension and odour nuisances; and  the control of dredging and bulk reclamation filling rates within acceptable limits. Based upon the construction sequence developed for this study the maximum dredging and filling rates adopted for Final Reclamation Area East were:  Maximum Dredging Rate: 184 m²/hour  Maximum Daily Filling Rate: 17,727 m³/day  (for bulk reclamation filling)  Maximum dredging and filling rates for other reclamation sites should take account of information contained in Table 10.14 of the EIA Report and envisaged construction sequence.  no dredging should take place under very bad weather conditions.	TDD's Contractor	Whole reclamation area During reclamation works End of reclamation works	С	R	7
		<ul> <li>silt curtain around dredging sites to be provided as necessary.</li> <li>Specific Measure for Marine Disposal of Dredged Materials and Maine Sand Filling Works</li> <li>all vessels should be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;</li> <li>all hopper barges and dredgers should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;</li> <li>loading of hopper barges should be controlled to prevent splashing of dredged or filling material to the surrounding water, and barges or hoppers should not be filled to a level which will cause the overflow of materials or polluted water during loading or</li> </ul>	TDD's Contractor	Whole reclamation area During reclamation works End of reclamation works	С	R	7



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
		transportation;					
		the works should cause no visible foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds;	TDD's Contractor	Whole reclamation area During reclamation works End of reclamation works	С	R	7
		<ul> <li>bulk filling should be carried out, where feasible, behind completed seawall to above high water mark. In general and where physically practical, filling should not be carried out without the seawall having been substantially completed for a distance of 100m – 200m ahead of filling; and</li> </ul>					
		· fill materials should comply with technical specification requirements and be taken from approved sources only. The maximum fines content of marine sand should be limited to 5% as assumed in the water quality assessments.					
		• transport of contaminated mud (or filling material) to the marine disposal site (or works site) should, wherever possible, be by split barge of not less than 750 m³ capacity, well maintained and capable of rapid opening and discharge at the disposal site;					
		· the dredged material should be disposed in the pit by bottom dumping, at a location within the pit specified by the MFC;					
		· discharge should be undertaken rapidly and the hoppers should then immediately be closed. Material adhering to the sides of the hopper should not be washed out of the hopper and the hopper should remain closed until the barge next return to the disposal					
		site;					
		the dumping vessel is not required to station but will be guided by the site staff managing the disposal facility. The vessel crew should be familiar with such operational procedures;					
		· monitoring of the barge loading to ensure that loss of material does not take place during transportation; and					
		· Transport barges or vessels shall be equipped with automatic self-monitoring devices.					



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
		Specific Measures Associated with Dredging and Filling Works when CRIII Dredging and Filling Works are being constructed concurrently with WDII Dredging and Filling Works					
		<ul> <li>deployment of silt curtains around the dredging and fill release points to contain SS within the construction site during dredging and filling;</li> <li>deployment of silt screens at the cooling water intakes and WSD salt water intakes to further minimise the intake of SS within the sea water.</li> </ul>	TDD's Contractor	Reclamation Areas as appropriate When CRIII and WDII - Dredging and Filling Works occur concurrently End of Concurrent Works	С	R	-
		Specific Measures Associated with Floating Debris  The result of the floating debris simulation has shown that the intermediate layout of the proposed reclamation has potential to trap floating rubbish. Monitoring and control of the construction activities should be taken to prevent the release of construction waste and rubbish from the construction site. Collection of floating debris should be carried out at least once every day by the CRIII Contractor, and more frequently (two or three times per day) at the water body south of the Initial Reclamation Area West and near the cooling water intakes where large substances could block the screens and filter pipes of the intakes and reduce their efficiency. Debris should be collected and taken to landfill sites for disposal.	TDD's Contractor	Whole reclamation area During construction At end of construction	С	R	-
		Specific Measures for Dealing with Culvert L Outfall at Completion of CRIII Eastern Seawall  As a mitigation measure, to avoid the accumulation of water borne pollutants within a temporary embayment to the east of CRIII, an impermeable barrier, suspended from a floating boom on the water surface and extending down to the seabed, will be erected by the CRIII Contractor on completion of the CRIII eastern seawall. The barrier will channel the stormwater discharge flows from Culvert L to the outside of the embayment. The CRIII Contractor will maintain this barrier until the WDII Contractor takes possession of this site, whereupon the WDII Contractor will takeover the maintenance of this barrier until the reclamation works in this area are carried out and the new Culvert L extension is constructed.	TDD's Consultant	Culvert L Outfall During Construction To handover to WDII Contractor	С	R	



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
		Construction Run-off and Drainage Control of Site Surface Runoff: Surface run-off from construction sites should be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided where necessary. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks. Silt removal facilities, channels and manholes should be maintained. Construction works should be programmed to minimise soil excavation works in rainy seasons (April to September). If excavation in soil cannot be avoided, temporarily exposed slope surfaces should be covered and temporary access roads should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided. Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage such as intercepting channels should be provided where necessary. Measures should be taken to minimise the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	TDD's Contractor	Works Area During construction End of construction	С	P,R,A,C	7
		- Manholes should be adequately covered and temporarily sealed.  - Groundwater  - Groundwater pumped out of tunnels or caverns should be discharged into storm drains after the removal of silt.					



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C: Construction D: Design	Permit Conditions apply to	Relevant Guidelines Legislation
		<ul> <li>Boring and Drilling Water</li> <li>Water used in ground boring and drilling for site investigation or rock/soil anchoring should as far as practicable be recirculated after sedimentation. Wastewater should be discharged into storm drains via silt removal facilities.</li> <li>Wastewater from Concrete Batching and Precast Concrete Casting</li> <li>Wastewater generated from the washing down of mixer trucks and drum mixers and similar equipment should wherever practicable be recycled. The discharge of wastewater should be kept to a minimum.</li> <li>To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an on-line standby pump of adequate capacity and with automatic alternating devices.</li> <li>Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment. Surface run-off should be segregated from the concrete mixing and casting yard area as much as possible, and diverted to the stormwater drainage system. Surface run-off contaminated by materials in a concrete mixing area or casting yard should be adequately treated before disposal into stormwater drains.</li> </ul>	TDD's Contractor	Work Area During construction End of construction	С	P,R,A,C	7
		<ul> <li>Wheel Washing Water</li> <li>All vehicles and plant should be cleaned before they leave the construction site. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.</li> <li>Bentonite Slurries</li> <li>Bentonite slurries should be reconditioned and reused wherever practicable. If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil site subject to obtaining a marine dumping licence from EPD (on a case-by-case basis).</li> </ul>		Work Area During construction End of construction	С	P,R,A,C	7



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
		- If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.					
		Wastewater from Building Construction     Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains.     Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary.					
		-Licensing of Construction Site Discharges within Water Control Zones -All discharges into any drainage or sewerage systems, or inland or coastal waters, or into the ground (e.g. from septic tanks) within a Water Control Zone are controlled under the Water Pollution control Ordinance (WPCO), except the discharge of domestic sewage into foul sewers or the discharge of unpolluted water into storm drains or into the waters of Hong Kong. Construction site discharges are controlled under the WPCODischarges controlled under the WPCO must comply with the terms and conditions of a valid WPCO licence.					



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
8.	Construction Waste Control Requirements	Specific Measures Associated with Marine sediments					
	·	In accordance with the WBTC No. 3/2000, the seriously contaminated material must be dredged and transported with great care. Mitigation measures, includeding the use of close-grab dredgers, shall be incorporated.  The dredged contaminated sediment must be effectively isolated from the environment	TDD's Contractor	Whole Reclamation Area During Reclamation Works End of Reclamation Work	С	R	7
		upon final disposal and shall be disposed of at the East Sha Chau Contaminated Mud Pits.  Segregation and Disposal of Wastes  · inert demolition/construction waste material when deemed suitable for reclamation or	TDD's Contractor	Works Areas	С	P, R, A, C	1,8, 9
		land formation should be re-used on-site;     non-inert demolition / construction waste material should be disposed of at landfills;     chemical waste as defined by Schedule 1 of the Waste Disposal (Chemical Waste)     (General) Regulation, should be stored in accordance with approved methods defined in the Regulation and Code of Practice and the chemical waste disposed of at the Chemical Waste Treatment Facility located at Tsing Yi or an approved recycler;     general refuse should be recycled where possible or disposed of at public landfill.		During Construction End of Construction			
		Storage, Collection and Transport of Waste  • wastes should be handled and stored in a manner which ensures that they are held securely without loss or leakage thereby minimising the potential for pollution. Release of these potential pollutants into marine waters during storage, handling or barge transportation should not be permitted as introduction of polluted waters is likely to have detrimental effects on water quality and water sensitive receivers;  • only reputable waste hauliers authorised to collect the specific category of waste concerned should be employed;  • appropriate measures should be employed to minimise windblown litter and dust during transportation by using enclosed bins, covering trucks or transporting wastes in enclosed containers;  • the necessary waste disposal permits and registrations should be obtained from the appropriate authorities, if they are required, in accordance with the Waste Disposal	TDD's Contractor	Works Areas During Construction End of Construction	С	P, R, A, C	1, 8, 9



No.	Activity	Mitigation/EIA Recommendations	Responsibility for Implementation	Location Duration completion of measures	Implementation Stage C : Construction D : Design	Permit Conditions apply to	Relevant Guidelines Legislation
9	Construction Landscape and Visual Control Requirements	Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354) and the Crown Land Ordinance;  · collection of general refuse should be carried out frequently, preferably daily;  · waste should only be disposed of at licensed sites and the civil engineering contractor should develop procedures to ensure that illegal disposal of wastes does not occur;  · waste storage areas should be well maintained and cleaned regularly;  · records should be maintained of the quantities of wastes generated, recycled and disposed, determined by weighing each load or other method; and  · A "trip ticket" system should be implemented, if required by Government.  Construction stage landscape and visual mitigation measures should include:  · Minimising contractors accesses and working areas as far as possible;  · Protection and retention of existing vegetation where possible in accordance with the Hong Kong Government "A Guide to Tree Planting and Maintenance in Urban Hong Kong, Section 5" Care of Trees on Development Sites' and the Country Parks Ordinance  · Transplanting of trees where appropriate;  · Advance planting and visual screening;  · Conservation of top soil;  · Design of the temporary works areas so as to optimise eventual use as promenade and public open space; and  · Sensitively designed site hoarding.	TDD's design consultant	Area wide during design and contract preparation	D	P, R, A, C	11, 12, 13,14
10	Monitoring and Audit	To be carried out in accordance with the Schedule in the EM and A Manual	TDD*/Contractor/ RSS TDD's design	Works areas  During construction  End of construction and within one year of operational phase  Area wide during design and	C/O D	P, R, A, C	1 11,12,13,14
			consultant	contract preparation	D	1,13,74,0	11,12,10,14



#### **Relevant Guidelines Legislation**

- 1. Environmental Impact Assessment Ordinance Technical Memorandum (EIAO)
- 2. HKPSG
- 3. ExCo Criteria for ITR
- 4. Noise Control Ordinance
- 5. The ProPECC Note PN2/93 (Construction Noise daytime limits)
- 6. Air Pollution Control Ordinance (APCO)
- 7. Water Pollution Control Ordinance (WPCO)(Cap. 358)
- 8. Waste Disposal Ordinance (Cap 354)
- 9. Waste Disposal (Chemical Waste)(General) Regulation (Cap 354)
- 10. Land Ordinance (Cap 28)
- 11. WBTC 25/92 Allocation of Space for Urban Trees
- 12. WBTC 25/93 Control of Visual Impact of Slopes
- 13. WBTC 18/94 Management and Maintenance of both Natural Vegetation and Landscape Works
- 14. WBTC 24/94 and PELBTC 3/94 "Tree Preservation"
- 15. Antiquities and Monuments Ordinance (Cap 53)

#### **Permit Conditions apply to**

- P Primary and District Distributor Roads
- R Reclamation
- A North Island Line Protection Works
- C Central and Wanchai Bypass
- + These items should be excluded from any Environmental Permit conditions as these refer to future development of the area (which is not designated under the EIAO), and are not related to reclamation and dredging activities which are designated, and can hence be controlled through EP conditions.
- \* Normally undertaken by a specialist monitoring team employed directly by the proponent and audited by the Environmental Works Checker.

# Appendix 4.1

Action and Limit Level

# **Action and Limit Level**

# Action and Limit Level for Noise Monitoring

Time Period	Action Level	Limit Level	
07:00 - 19:00 hours on normal weekdays	When one documented complaint is received.	70 dB(A)	

# Action and Limit Level for Air Monitoring

Monitoring Locations	1-hour TSP Le	vel inµg/m3	24-hour TSP Level inµg/m3		
	Action Level	Limit Level	Action Level	Limit Level	
ACL1 - City Hall	460	500	163	260	
ACL2a - Contractor HK/2012/08 Site Office	300.1	500	187.3	260	

# Action and Limit Level for Water Quality Monitoring

Parameters	Action Level	Limit Level					
M5B – Central Cooling Water Intake Group							
SS in mg/L 12.00 17.00							
DO in mg/L	4.60	3.00					

# Appendix 4.2

Copies of Calibration Certificates



TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

### ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

					METER	ORFICE
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	DIFF Hg (mm)	DIFF H2O (in.)
1	NA	NA	1.00	1.3870	3.2	2.00
2	NA	NA	1.00	0.9830	6.4	4.00
3	NA	NA	1.00	0.8760	7.9	5.0
4	NA	NA	1.00	0.8340	8.8	5.5
5	NA	NA	1.00	0.6860	12.7	8.0

### DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9817 0.9775 0.9754 0.9743 0.9692	0.7078 0.9944 1.1135 1.1683 1.4128	1.4042 1.9859 2.2203 2.3286 2.8084		0.9957 0.9915 0.9894 0.9882 0.9830	0.7179 1.0086 1.1294 1.1849 1.4330	0.8919 1.2613 1.4101 1.4790 1.7837
Qstd slo	t (b) =	1.99175 -0.00041 0.99991		Qa slop intercep coeffici	t (b) =	1.24720 -0.00026 0.99991
y axis =	SQRT [H2O (F	a/760) (298/7	ra)]	y axis =	SQRT [H20 (T	[a/Pa)]

## CALCULATIONS

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

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

For subsequent flow rate calculations:

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



				_		-	•
Location :		ACL1			Calbrati	on Date	: 02-Apr-15
Equipment no.		EL380			Calbrati	on Due Date	: 02-Jun-15
CALIBRATION OF CON	TINUOUS	S FLOW RI	CORDER				
				Ambient Condition			
Temperature, T <sub>a</sub>		299		Kelvin Pressure,	P <sub>a</sub>	1	009 mmHg
			Orifice Tr	ansfer Standard Info	rmation		
Equipment No.		EL086		Slope, m <sub>c</sub> 1.99		Intercept, bc	-0.00041
Last Calibration Date		14-Jul-1				3.3 x 298 /	
Next Calibration Date		14-Jul-1				$Q_{std} + b_c$	'a/
						- sta · · · · · ·	
0.11111				Calibration of TSP			
Calibration		nometer R	-	Q <sub>std</sub>		ious Flow	IC
Point		inches of	-	(m <sup>3</sup> / min.)		rder, W	(W(P <sub>a</sub> /1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
_	(up)	(down)	(difference)			CFM)	Y-axis
1	6.4	6.4	12.8	1.7897		58	57.7799
2	5.3	5.3	10.6	1.6286		51	50.8065
3	4.1	4.1	8.2	1.4325		45	44.8293
4	2.5	2.5	5.0	1.1186		37	36.8596
5	1.6	1.6	3.2	0.8949		29	28.8900
By Linear Regression of							
	Slope, m	=	30.9		ntercept, b =	1.:	3705
Correlation Co		=	0.99				
Calibration	Accepted	=	Yes/	<del>\0</del> ^^			
* if Correlation Coefficier	nt < 0.990,	, check and	l recalibration	n again.			
** Delete as appropriate.							
Delete as appropriate.							
Remarks :							
Calibrated by		uLu Mar			Checked	d by	: Derek Lo
Date :	0	2-Apr-15			Date		: 02-Apr-15



				_			_	-	
Location :		ACL1				Calbrati	on Date	:	02-Jun-15
Equipment no.		EL380				Calbrati	on Due Date	:	02-Aug-15
CALIBRATION OF CON	TINUOUS	FLOW RI	ECORDER						
				Ambient C	ondition				
Temperature, T <sub>a</sub>		303		Kelvin	Pressure, P	a		1009	mmHg
			Orifico Tr	anctor Sta	ndard Inforn	nation			
Equipment No.		EL086		Slope, m <sub>c</sub>	1.991		Intercept, bc	.	-0.00041
Last Calibration Date		14-Jul-1		Olope, III <sub>c</sub>			3.3 x 298		
Next Calibration Date		14-Jul-1			( / / /		$Q_{std} + b_c$	' a)	
None Gambianoni Bato		110011				m <sub>c</sub> x	sta 1 D c		
				Calibratio				I	
Calibration	Mar	nometer R	eading		std		uous Flow		IC
Point	H (i	inches of	water)	(m <sup>3</sup>	/ min.)	Reco	order, W	(W(P <sub>a</sub>	/1013.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up)	(down)	(difference)	X-	axis	(0	CFM)		Y-axis
1	6.0	6.0	12.0	1.	7214		55		54.4285
2	5.0	5.0	10.0	1.5	5714		50		49.4804
3	3.8	3.8	7.6	1.3	3699		43		42.5532
4	2.4	2.4	4.8	1.0	0888		35		34.6363
5	1.5	1.5	3.0	0.8	3608		28		27.7090
By Linear Regression of	Y on X								
	Slope, m	=	30.8	789	Inte	ercept, b =	0.	.9258	
Correlation Co	pefficient*	=	0.99	93					
Calibration	Accepted	=	Yes/F	No**					
* if Correlation Coefficier	st = 0.000	shook and	l rocalibratio	a again					
ii Correlation Coemiciei	n < 0.990,	CHECK AND	recalibration	i agaiii.					
** Delete as appropriate.									
Remarks :									
Calibrated by	L	uLu Mar				Checke	d by	:	Derek Lo
Date :	0	2-Jun-15				Date		:	02-Jun-15



Location :	unbru	ACL2a		ign volume oa	Calbrati		:	10-Apr-15
Equipment no.		EL111			Calbration Due Date			10-Jun-15
							-	
CALIBRATION OF CON	TINUOUS	S FLOW RE	CORDER					
	Ī			Ambient Condition		_		
Temperature, T <sub>a</sub>		291		Kelvin <b>Pressure, P</b>	a	1	018	mmHg
			Orifice Tr	ansfer Standard Infor	mation			
Equipment No.		EL086		<b>Slope, m</b> <sub>c</sub> 1.991	75	Intercept, bc		-0.00041
Last Calibration Date		14-Jul-1	4	(H	x P <sub>a</sub> / 10	13.3 x 298 /	T <sub>a</sub> ) 1/2	
Next Calibration Date		14-Jul-1	5	=	m <sub>c</sub> x	$Q_{std} + b_c$		
				Calibration of TSP				
Calibration	Mar	nometer R	eading	Q <sub>std</sub>	Contin	uous Flow		IC
Point	Н (	inches of	water)	(m <sup>3</sup> / min.)	Reco	order, W	(W(P <sub>a</sub> /10 <sup>-</sup>	13.3x298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up)	(down)	(difference)	X-axis	(0	CFM)		Y-axis
1	6.2	6.2	12.4	1.7935		62		62.8866
2	4.9	4.9	9.8	1.5944		54		54.7722
3	3.7	3.7	7.4	1.3855		48		48.6864
4	2.3	2.3	4.6	1.0924		38		38.5434
5	1.4	1.4	2.8	0.8523		32		32.4576
By Linear Regression of	Y on X							
	Slope, m	=	32.25	593 In	tercept, b =	4.	1246	
Correlation Co	oefficient*	=	0.99	976 				
Calibration	Accepted	=	Yes/P	<del>\0</del> **				
* if Correlation Coefficier	nt < 0.990,	check and	recalibration	again.				
** Delete as appropriate.								
Remarks :								
Calibrated by	L	_uLu Mar			Checked	d by	:	Derek Lo
Date	1	0-Apr-15			Date		:	10-Apr-15



Location :		ACL2a			Calbratio	on Date	: 10	-Jun-15
Equipment no.		EL111			Calbratio	on Due Date	: 10	-Aug-15
CALIBRATION OF CON	TINUOUS	S FLOW RE	ECORDER					
				Ambient Condition				
Temperature, T <sub>a</sub>		303		Kelvin Pressure, P	a	1	007	mmHg
			Orifice Tr	ansfer Standard Infor	mation			
Equipment No.		EL086		<b>Slope, m</b> <sub>c</sub> 1.991	75	Intercept, bc	-0	).00041
Last Calibration Date		14-Jul-1	4	(H)	(P <sub>a</sub> / 101	3.3 x 298 /	$T_a)^{1/2}$	
Next Calibration Date		14-Jul-1	5	=	m <sub>c</sub> x	$Q_{std} + b_c$		
				Calibration of TSP				
Calibration	Mar	nometer R	eading	Q <sub>std</sub>	Continu	ious Flow		IC
Point	Н (	inches of	water)	(m <sup>3</sup> / min.)	Reco	order, W	(W(P <sub>a</sub> /1013.3)	(298/T <sub>a</sub> ) <sup>1/2</sup> /35.31)
	(up)	(down)	(difference)	X-axis	(0	CFM)	Y-	axis
1	6.0	6.0	12.0	1.7197		62	61.	2949
2	4.7	4.7	9.4	1.5220		55	54.	3745
3	3.7	3.7	7.4	1.3505		50	49.	4314
4	2.4	2.4	4.8	1.0877		40	39.	5451
5	1.4	1.4	2.8	0.8308		30	29.	6588
By Linear Regression of Correlation Co	Slope, m	= =	35.4 0.99 Yes/N	990	ercept, b =	0.1	7088	_
* if Correlation Coefficien  ** Delete as appropriate.  Remarks:	t < 0.990,	check and	recalibration	again.				
Calibrate d los	L	.uLu Mar			Checked	l by	: D	erek Lo
Calibrated by  Date		0-Jun-15			Date	-		-Jun-15



G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com

Tel: (852) 2873 6860 Fax: (852) 2555 7533



# **CERTIFICATE OF CALIBRATION**

Certificate No.:

15CA0302 01

Page

of

2

Item tested

Description:

Sound Level Meter (Class 1)

Microphone

Manufacturer:

Larson Davis Model 831

377B02

Type/Model No .: Serial/Equipment No.: 0003227

SNLW135892

Adaptors used:

Item submitted by

Customer Name:

Lam Geotechnics Limited

Address of Customer:

Request No. Date of receipt:

02-Mar-2015

Date of test:

02-Mar-2015

### Reference equipment used in the calibration

Description: Multi function sound calibrator Model: B&K 4226 Serial No.

**Expiry Date:** 

Traceable to: CIGISMEC

Signal generator Signal generator DS 360 DS 360 2288444 33873 61227

20-Jun-2015 09-Apr-2015 09-Apr-2015

CEPREI **CEPREI** 

#### **Ambient conditions**

Temperature: Relative humidity: Air pressure:

21 ± 1 °C 60 ± 10 % 1010 ± 5 hPa

Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580; Part 1: 1997 and the lab calibration procedure SMTP004-CA-152
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%
- 3. The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

### Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate

/Feng Jun Qi

Actual Measurement data are documented on worksheets

Huang Jian M

Approved Signatory:

Date:

03-Mar-2015

Company Chop:

The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

C Soils & Materials Engineering Co., Ltd

Form No.CARP152-1/Issue 1/Rev.C/01/02/2007



G/F, 9/F., 12/F, 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



# CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

15CA0302 01

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of

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#### 1, Electrical Tests

The electrical tests were performed using an equivalent capacitance substituted for the microphone. The results are given in below with test status and the estimated uncertainties. The "Pass" means the result of the test is inside the tolerances stated in the test specifications. The "-" means the result of test is outside these tolerances.

Test:	Subtest:	Status:	Expanded Uncertanity (dB) / Coverage Factor		
Self-generated noise	Α	Pass	0.3		
Fig. 3. Exp. (1) - (1) Constant of the constan	С	Pass	0.8 2.1		
	Lin	Pass	1.6 2.2		
Linearity range for Leq	At reference range, Step 5 dB at 4 kHz	Pass	0.3		
	Reference SPL on all other ranges	Pass	0.3		
	2 dB below upper limit of each range	Pass	0.3		
	2 dB above lower limit of each range	Pass	0.3		
Linearity range for SPL	At reference range, Step 5 dB at 4 kHz	Pass	0.3		
Frequency weightings	A	Pass	0.3		
	С	Pass	0.3		
	Lin	Pass	0.3		
Time weightings	Single Burst Fast	Pass	0.3		
	Single Burst Slow	Pass	0.3		
Peak response	Single 100µs rectangular pulse	N/A	N/A		
R.M.S. accuracy	Crest factor of 3	Pass	0.3		
Time weighting I	Single burst 5 ms at 2000 Hz	Pass	0.3		
	Repeated at frequency of 100 Hz	Pass	0.3		
Time averaging	1 ms burst duty factor 1/103 at 4kHz	Pass	0.3		
	1 ms burst duty factor 1/10 <sup>4</sup> at 4kHz	Pass	0.3		
Pulse range	Single burst 10 ms at 4 kHz	Pass	0.4		
Sound exposure level	Single burst 10 ms at 4 kHz	Pass	0.4		
Overload indication	SPL	Pass	0.3		
	Leq	Pass	0.4		

#### 2, Acoustic tests

The complete sound level meter was calibrated on the reference range using a B&K 4226 acoustic calibrator with 1000Hz and SPL 94 dB. The sensitivity of the sound level meter was adjusted. The test result at 125 Hz and 8000 Hz are given in below with test status and the estimated uncertainties.

Test:	Subtest	Status	Expanded Uncertanity (dB) / Coverage Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3
	Weighting A at 8000 Hz	Pass	0.5

#### 3, Response to associated sound calibrator

N/A

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95 %. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

Funa Chi Yip

Checked by:

Lam Tze Wai

Date:

02-Mar-2015

Date:

03-Mar-2015

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

End

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Form No.CARP152-2/Issue 1/Rev.C/01/02/2007



G/F, 9/F, 12/F, 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com Tel: (852) 2873 6860 Fax: (852) 2555 7533



# CERTIFICATE OF CALIBRATION

Certificate No.:

15CA0528 04-03

Page:

of

2

Item tested

Description: Manufacturer: Acoustical Calibrator (Class 1)

Type/Model No.:

Rion Co., Ltd. NC-73

Serial/Equipment No.:

NC-73 10465798

Adaptors used:

-

Item submitted by

Curstomer:

Lam Geotechnics Ltd.

Address of Customer:

\_

Request No.: Date of receipt:

28-May-2015

Date of test:

30-May-2015

### Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	15-Apr-2016	SCL
Preamplifier	B&K 2673	2239857	22-Apr-2016	CEPREI
Measuring amplifier	B&K 2610	2346941	22-Apr-2016	CEPREI
Signal generator	DS 360	61227	16-Apr-2016	CEPREI
Digital multi-meter	34401A	US36087050	17-Apr-2016	CEPREI
Audio analyzer	8903B	GB41300350	17-Apr-2016	CEPREI
Universal counter	53132A	MY40003662	16-Apr-2016	CEPREI

### **Ambient conditions**

Temperature: Relative humidity:

21 ± 1 °C 60 ± 10 %

Air pressure:

1000 ± 5 hPa

### Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 3. The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

### Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.

Huang Jian

n/Fena Jun Qi

Approved Signatory:

Date:

01-Jun-2015

Company Cho

STOS \* TOLY

**Comments:** The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

© Soils & Materials Engineering Co., Ltd

Form No.CARP156-1/Issue 1/Rev.D/01/03/2007



G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com

Tel: (852) 2873 6860 Fax: (852) 2555 7533



## CERTIFICATE OF CALIBRATION

(Continuation Page)

Certificate No.:

15CA0528 04-03

Page:

#### 1, Measured Sound Pressure Level

The output Sound Pressure Level in the calibrator head was measured at the setting and frequency shown using a calibrated laboratory standard microphone and insert voltage technique. The results are given in below with the estimated uncertainties.

Frequency	Output Sound Pressure	Measured Output	Estimated Expanded
Shown	Level Setting	Sound Pressure Level	Uncertainty
Hz	dB	dB	dB
1000	94.00	94.06	0.10

#### 2, Sound Pressure Level Stability - Short Term Fluctuations

The Short Term Fluctuations was determined by measuring the maximum and minimum of the fast weighted DC output of the B&K 2610 measuring amplifier over a 20 second time interval as required in the standard. The Short Term Fluctuation was found to be:

At 1000 Hz

STF = 0.002 dB

Estimated expanded uncertainty

0.005 dB

#### 3, **Actual Output Frequency**

The determination of actual output frequency was made using a B&K 4180 microphone together with a B&K 2673 preamplifier connected to a B&K 2610 measuring amplifier. The AC output of the B&K 2610 was taken to an universal counter which was used to determine the frequency averaged over 20 second of operation as required by the standard. The actual output frequency at 1 KHz was:

At 1000 Hz

Actual Frequency = 966.3 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

#### **Total Noise and Distortion** 4,

For the Total Noise and Distortion measurement, the unfiltered AC output of the B&K 2610 measuring amplifier was connected to an Agilent Type 8903 B distortion analyser. The TND result at 1 KHz was:

At 1000 Hz

TND = 0.5 %

Estimated expanded uncertainty

0.7 %

The expanded uncertainties have been calculated in accordance with the ISO Publication "Guide to the expression of uncertainty in measurement", and gives an interval estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.

Calibrated by:

Fung Chi Yip

Checked by:

Lam Tze Wa

Date:

30-May-2015

Date:

01-Jun-2015

The standard(s) and equipment used in the calibration are traceable to national or international recognised standards and are calibrated on a schedule to maintain the required accuracy level.

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Form No.CARP156-2/Issue 1/Rev.C/01/05/2005



Information supplied by customer:

CONTACT:

SAM LAM

WORK ORDER: HK1510147

CLIENT:

LAM GEOTECHNICS LIMITED

DATE RECEIVED: 2015-05-22 **DATE OF ISSUE: 2015-06-01** 

ADDRESS:

11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD,

WANCHAI, HONG KONG

PROJECT:

### METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

### **COMMENTS**

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203010	
Equipment No.:		
Date of Calibration:	22-May-15	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

> Mr. Peter Lee Director



**WORK ORDER:** HK1510147 **DATE OF ISSUE:** 2015-06-01

CLIENT: LAM GEOTECHNICS LIMITED

<b>Equipment Type:</b>	Turbidimeter	
Brand Name:	Xin Rui	No.
Model No.:	WGZ-3B	15.000
Serial No.:	1203010	***************************************
Equipment No.:		
Date of Calibration:	22-May-15	
Date of next Calibation:	22-Aug-15	1000

### Parameters:

**Turbidity** 

Method Ref: APHA 22<sup>nd</sup> ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)
0	0.00	
4	3.86	-3.5
10	10.1	1.0
40	40.0	0.0
100	101	1.0
400	399	-0.3
1000	1000	0.0
	Tolerance Limit (±%)	10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



Information supplied by customer:

CONTACT:

SAM LAM

WORK ORDER: HK1510130

CLIENT:

LAM GEOTECHNICS LIMITED

**DATE RECEIVED: 08/04/2015** DATE OF ISSUE:

15/04/2015

ADDRESS:

11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD,

WANCHAI, HONG KONG

PROJECT:

### METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

### **COMMENTS**

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203015	
Equipment No.:		
Date of Calibration:	08/04/2015	

#### Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

> Mr. Peter Lee Director



WORK ORDER:

HK1510130

**DATE OF ISSUE:** 15/04/2015

CLIENT:

LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203015	
Equipment No.:		
Date of Calibration:	08/04/2015	
Date of next Calibation:	08/07/2015	

### Parameters:

Turbidity

Method Ref: APHA 22<sup>nd</sup> ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	
0	0.00		
4	4.22	5.5	
10	9.77	-2.3	
40	40.9	2.3	
100	99	-1.0	
400	412	3.0	
1000	983	-1.7	4.00
	Tolerance Limit (±%)	10.0	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.



Information supplied by customer:

CONTACT: **SAM LAM**  WORK ORDER: HK1510131

CLIENT:

LAM GEOTECHNICS LIMITED

**DATE RECEIVED: 08/04/2015** 

DATE OF ISSUE:

15/04/2015

ADDRESS:

11/F, CENTRE POINT, 181-185, GLOUCESTER ROAD,

WANCHAI, HONG KONG

PROJECT:

### METHOD OF PERFORMANCE CHECK/ CALIBRATION:

Ref: APHA22nd ed 2130B

### **COMMENTS**

It is certified that the item under performance check/calibration has been calibrated/checked by corresponding calibrated equipment in the laboratory.

Maximum Tolerance and calibration frequency stated in the report, unless otherwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.

Scope of Test:	Turbidity	
Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1309192	
Equipment No.:		
Date of Calibration:	08/04/2015	

Remarks:

This is the Final Report. Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

> Mr. Peter Lee Director

Canan



WORK ORDER:

HK1510131

DATE OF ISSUE:

15/04/2015

CLIENT:

LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1309192	
Equipment No.:	-	
Date of Calibration:	08/04/2015	
Date of next Calibation:	08/07/2015	

### Parameters:

Turbidity

Method Ref: APHA 22<sup>nd</sup> ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	
0	0.00		
4	3.89	-2.8	
10	10.3	3.0	
40	41.5	3.8	
100	97	-3.0	
400	394	-1.5	
1000	978	-2.2	
	Tolerance Limit (±%)	10.0	

Remark: "Displayed Reading" presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.

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#### **EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT**

Report No.

: HK1510133

**Project Name** 

EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT

Date of Issue

: 21/04/2015

Customer

: LAM GEOTECHNICS LIMITED

Address

11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

Calibration Job No. Test Item No. : HK1510133 : HK1510133-01

Test Item Details Test Item Description

Multifunctional Meter

Manufacturer Model No. YSI Professional Plus

Serial No.

14E100105

Performance Method

Checked according to in-house method CAL005

(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value

(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)

, Dissolved oxygen (APHA 19e 4500-O,C))

Test Item Receipt Date Test Item Calibration Date 14-Apr-15 15-Apr-15

**Test Period** 

14/04/2015 - 21/04/2015

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

- 2. Results relate to item(s) as received.
- 3. ± indicates the tolerance limit
- 4. N/A = Not applicable
- APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA
- 6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.
- Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

Mr. Peter Lee

(Director)

Issue Date:

21/04/2015



#### REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK1510133
DATE OF ISSUE: 21/04/2015

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	14E100105	
Date of Calibration	15-Apr-15	
Date of next Calibation	15-Jul-15	

#### Parameters:

Temperature (Method Ref: Section 6 of Intermational Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
10.2	10.4	+0.2
19.9	20.1	+0.2
28.9	27.4	-1.5
To	olerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	3.97	4.08	+0.11
7.0	6.92	7.03	+0.11
10.0	9.91	10.01	+0.10
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCI concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	12.89	12.70	-1.50
0.2000	24.80	24.99	+0.77
0.5000	58.67	58.36	-0.53
	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)	
8.93	8.85	-0.08	
5.15	5.17	+0.02	
1.58	1.71	+0.13	
	Tolerance Limit	±0.20	

Remarks:

- (1) Maxium tolerance and calibration frequency stated in the report, unless otherwwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.
- (2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.
- (3) Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

- End of Report -



### **EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT**

Report No.

: HK1510134

**Project Name** 

**EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT** 

Date of Issue

24/04/2015

Customer Address

: LAM GEOTECHNICS LIMITED

11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

Calibration Job No. Test Item No.

HK1510134 : HK1510134-01

**Test Item Details** 

**Test Item Description** 

: Multifunctional Meter

Manufacturer

YSI

Model No. Serial No. Professional Plus 14M100277

**Performance Method** 

Checked according to in-house method CAL005

(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value

(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)

, Dissolved oxygen (APHA 19e 4500-O,C))

**Test Item Receipt Date Test Item Calibration Date**  17-Apr-15 17-Apr-15

**Test Period** 

17/04/2015 - 24/04/2015

- Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.
  - 2. Results relate to item(s) as received.
  - 3. ± indicates the tolerance limit
  - 4. N/A = Not applicable
  - 5. APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA
  - 6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.
  - 7. Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

cauan Mr. Peter Lee (Director)

Issue Date:

24/04/2015



### REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER:

HK1510134

DATE OF ISSUE:

24/04/2015

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	14M100277	
Date of Calibration	17-Apr-15	
Date of next Calibation	17-Jul-15	

#### Parameters:

Temperature (Method Ref: Section 6 of Intermational Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
10.2	10.5	+0.3
19.7	19.1	-0.6
31.3	31.3	0.0
IT <sub>C</sub>	olerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	3.97	4.14	+0.17
7.0	6.88	7.03	+0.15
10.0	9.84	9.90	+0.06
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCl concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	12.89	13.08	+1.47
0.2000	24.80	24.43	-1.49
0.5000	58.67	58.10	-0.97
	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)
8.18	8.06	-0.12
5.59	5.46	-0.13
3.00	2.96	-0.04
	Tolerance Limit	±0.20

Remarks:

- (1) Maxium tolerance and calibration frequency stated in the report, unless otherwwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.
- (2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.
- (3) Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.



#### **EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT**

Report No.

: HK1510132

**Project Name** 

**EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT** 

Date of Issue

21/04/2015

Customer

: LAM GEOTECHNICS LIMITED

**Address** 

11/F., CENTRE POINT, 181-185 GLOUCESTER ROAD, WAN CHAI, HONG KONG

Calibration Job No.

HK1510132

Test Item No. **Test Item Details**  HK1510132-01

**Test Item Description** 

**Multifunctional Meter** YSI

Manufacturer Model No.

Professional Plus

Serial No.

11F100420

**Performance Method** 

Checked according to in-house method CAL005

(References: Temperature (Section 6 of Intermational Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure), pH value

(APHA 21e 4500H:B), Salinity (Refer to Conductivity APHA 19e 2510B)

Dissolved oxygen (APHA 19e 4500-O,C))

**Test Item Receipt Date Test Item Calibration Date**  14-Apr-15 15-Apr-15

**Test Period** 

14/4/2015 - 21/4/2015

Notes: 1. This report shall not be reproduced, except in full, without prior approval from Pilot Testing Limited.

2. Results relate to item(s) as received.

- 3. ± indicates the tolerance limit
- 4. N/A = Not applicable
- 5. APHA American Public Health Association, American Water Works Association and Water Environment Federation, Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF. USA
- 6. DO, pH, salinity and temperature performance check was conducted by Pilot Testing Limited.
- 7. Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

Approved Signatory

Mr. Peter Lee

(Director)

Issue Date:

21/04/2015



#### REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

WORK ORDER: HK1510132 DATE OF ISSUE: 21/04/2015

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter	
Manufacturer	YSI	
Model No.	Professional Plus	
Serial No.	11F100420	
Date of Calibration	15-Apr-15	3392
Date of next Calibation	15-Jul-15	

#### Parameters:

Temperature (Method Ref: Section 6 of Intermational Accreditation New Zealand Technical Guide No.3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reference Reading (°C)	Display Reading (°C)	Deviation (°C)
10.2	11.1	+0.9
19.9	20.3	+0.4
28.9	28.5	-0.4
T	olerance Limit	±2.0

pH Value (Method Ref: APHA21e, 4500H:B)

Expected Reading (pH unit)	Reference Reading (pH unit)	Display Reading (pH unit)	Deviation (pH unit)
4.0	3.97	4.09	+0.12
7.0	6.92	6.84	-0.08
10.0	9.91	9.97	+0.06
	Tolerance Limit		±0.20

Conductivity (Method Ref: APHA 19e, 2510)

KCl concentration (mol/L)	Reference Reading (ms/cm)	Display Reading (ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	12.89	12.77	-0.93
0.2000	24.80	24.42	-1.53
0.5000	58.67	58.05	-1.05
	Tolerance Limit		±2.0

Dissolved Oxygen (DO) (Method Ref: APHA 19e, 4500-O, C)

Reference DO reading (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)
8.93	8.92	-0.01
5.15	5.20	+0.05
1.58	1.64	+0.06
	Tolerance Limit	±0.20

Remarks:

- (1) Maxium tolerance and calibration frequency stated in the report, unless otherwwise stated, the internal acceptance criteria of Pilot Testing Limited will be followed.
- (2) Displayed reading presents the figures shown on item under calibration/checking regardless of equipment precision or significant figures.
- (3) Because of high sensitivity and ease of measurement, the conductivity method (according to APHA 19e 2510) is used to determine salinity.

- End of Report -

## Appendix 5.1

Monitoring Schedules for Reporting Month and Coming Reporting Month

## Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 2)

#### **Environmental Monitoring Schedule** June 2015

Sunday	Monday	Tuesday		Wednesday	1	Thursday	Friday	Saturday
	1-J		2-Jun	3-J	Jun	4-Jun	5-Jur	6-Ju
				24b- TCD		4h- TCD		
				24hr TSP		1hr TSP		
	Impact WQM			Impact WQM			Impact WQM	
	Mid-ebb 11:	29		Mid-ebb 12:	:42		Mid-ebb 14:07	
	Mid-flood 18:			Mid-flood 19:			Mid-flood 21:13	
7-Jun	8-J		9-Jun	10-J		11-Jun	12-Jur	
		24hr TSP (ACL2a)						
	24hr TSP	1hr TSP					24hr TSP	1hr TSP
	Impact WQM			Impact WQM			Impact WQM	
	Mid-flood 9:			Mid-flood 12:			Mid-ebb 9:06	
	Mid-ebb 16:			Mid-ebb 18:		40 1	Mid-flood 15:09	
14-Jun	15-3	un 16	6-Jun	17-J	Jun	18-Jun	19-Jur	i 20-Jul
							24hr TSP (ACL2a)	
						24hr TSP	1hr TSP	
	Impact WQM			Impact WQM			Impact WQM	
	Mid-ebb 11:	30		Mid-ebb 12:	:54		Mid-ebb 14:15	<u>i</u>
	Mid-flood 18:	14		Mid-flood 19:	:51		Mid-flood 21:17	1
21-Jun	22-0	un 23	3-Jun	24-5	Jun	25-Jun	26-Jur	27-Ju
		24hr TSP		1hr TSP				
	Impact WQM Mid-flood 9:	20		Impact WQM		Impact WQM	Impact WQM	Impact WQM
	Mid-flood 9: Mid-ebb 16:			Mid-ebb 17:		Mid-flood 0:53	Mid-ebb 19:44	Mid-flood 2:08
28-Jun	29-3		)-Jun	Mid-ebb 17.	.02	IVIIU-11000 0:53	Mid-ebb 19:44	Wild-1100d 2:00
20-Juli	29-0	uri 30	J-Jun					
		1						
		24hr TSP (ACL2a)						
	24hr TSP	1hr TSP						
	<del></del>	1						
	Impact WQM	1						
	Mid-ebb 10:	29						
	Mid-flood 17:							<u> </u>
Remark:								

## Wan Chai Development Phase II and Central-Wan Chai Bypass Sampling, Field Measurement and Testing Works (Stage 2)

## Tentive Environmental Monitoring Schedule July 2015

				July 201			
Sunday	Monday	Tuesday		Wednesday	Thursday	Friday	Saturday
				1-Jul	2-√	ul 3-Ju	4-Jul
							24hr TSP
					Impact WQM Mid-ebb 12:2		Impact WQM Mid-ebb 13:55
					Mid-flood 19:3		Mid-flood 20:57
5-J	ul	6-Jul	7-Jul	8-Jul	9-J	ul 10-Ju	11-Jul
						24hr TSP	1hr TSP
	Impact WQM	5.00		Impact WQM Mid-flood 10:48		Impact WQM	
		5:26 2:28		Mid-ebb 17:10		Mid-flood 13:45 Mid-ebb 19:27	
12-J			14-Jul	15-Jul	16-J		
					24hr TSP	1hr TSP	
	Impact WQM			Impact WQM		Impact WQM	
		0:36 7:28		Mid-ebb 12:01 Mid-flood 19:00	l T	Mid-ebb 13:18 Mid-flood 20:12	
19-J			21-Jul	Міа-1100a 19:00 22-Jul	23-J		
				24hr TSP	1hr TSP		
		8:18		Impact WQM Mid-flood 9:31			Impact WQM Mid-flood 0:19
		4:59		Mid-ebb 16:00			Mid-ebb 7:05
26-J	ul 2	7-Jul 2	28-Jul	29-Jul	30-3	ul 31-Ju	
			10:04		Impact WQM Mid-ebb 11:2		
		Mid-flood '	17:21		Mid-flood 18:3	55	L

## Appendix 5.2

Continuous Noise Monitoring Results and Graphical Presentations

0 11			(C: 11 II)				
Normal Day 0	oise Monitoring   7:00-19:00	Data ACL3 5/6/15 13:01	(City Hall) 64	11/6/15 7:31 62	16/6/15 14:01 63	23/6/15 8:31 62	27/6/15 15:01 63
1/6/15 7:01	61	5/6/15 13:31	51	11/6/15 8:01 63	16/6/15 14:31 63	23/6/15 9:01 51	27/6/15 15:31 64
1/6/15 7:31 1/6/15 8:01	62 63	5/6/15 14:01 5/6/15 14:31	64 63	11/6/15 8:31 64 11/6/15 9:01 64	16/6/15 15:01 64 16/6/15 15:31 64	23/6/15 9:31 42 23/6/15 10:01 55	27/6/15 16:01 64 27/6/15 16:31 64
1/6/15 8:31	53	5/6/15 15:01	63	11/6/15 9:31 64	16/6/15 16:01 64	23/6/15 10:31 46	27/6/15 17:01 63
1/6/15 9:01 1/6/15 9:31	64 64	5/6/15 15:31 5/6/15 16:01	63 64	11/6/15 10:01 64 11/6/15 10:31 64	16/6/15 16:31 64 16/6/15 17:01 63	23/6/15 11:01 64 23/6/15 11:31 64	27/6/15 17:31 64 27/6/15 18:01 64
1/6/15 10:01	64	5/6/15 16:31	64	11/6/15 11:01 63	16/6/15 17:31 63	23/6/15 12:01 64	27/6/15 18:31 63
1/6/15 10:31	64 64	5/6/15 17:01 5/6/15 17:31	64 64	11/6/15 11:31 64 11/6/15 12:01 64	16/6/15 18:01 63 16/6/15 18:31 63	23/6/15 12:31 63 23/6/15 13:01 64	29/6/15 7:01 61 29/6/15 7:31 62
1/6/15 11:01 1/6/15 11:31	34	5/6/15 18:01	64	11/6/15 12:01 64 11/6/15 12:31 63	16/6/15 18:31 63 17/6/15 7:01 61	23/6/15 13:31 64	29/6/15 7:31 62 29/6/15 8:01 63
1/6/15 12:01	64	5/6/15 18:31	64	11/6/15 13:01 63	17/6/15 7:31 63	23/6/15 14:01 53	29/6/15 8:31 64
1/6/15 12:31 1/6/15 13:01	64 64	6/6/15 7:01 6/6/15 7:31	61 62	11/6/15 13:31 63 11/6/15 14:01 64	17/6/15 8:01 64 17/6/15 8:31 64	23/6/15 14:31 45 23/6/15 15:01 64	29/6/15 9:01 64 29/6/15 9:31 63
1/6/15 13:31	64	6/6/15 8:01	63	11/6/15 14:31 64	17/6/15 9:01 64	23/6/15 15:31 64	29/6/15 10:01 64
1/6/15 14:01 1/6/15 14:31	64 64	6/6/15 8:31 6/6/15 9:01	62 63	11/6/15 15:01 64 11/6/15 15:31 64	17/6/15 9:31 64 17/6/15 10:01 19	23/6/15 16:01 64 23/6/15 16:31 64	29/6/15 10:31 63 29/6/15 11:01 64
1/6/15 15:01	64	6/6/15 9:31	64	11/6/15 16:01 63	17/6/15 10:31 46	23/6/15 17:01 64	29/6/15 11:31 64
1/6/15 15:31 1/6/15 16:01	64 64	6/6/15 10:01 6/6/15 10:31	63 63	11/6/15 16:31 63 11/6/15 17:01 63	17/6/15 11:01 48 17/6/15 11:31 64	23/6/15 17:31 64 23/6/15 18:01 48	29/6/15 12:01 64 29/6/15 12:31 64
1/6/15 16:31	64	6/6/15 11:01	63	11/6/15 17:31 63	17/6/15 11:31 64	23/6/15 18:31 64	29/6/15 13:01 64
1/6/15 17:01	64	6/6/15 11:31	63	11/6/15 18:01 63	17/6/15 12:31 64	24/6/15 7:01 62	29/6/15 13:31 64
1/6/15 17:31 1/6/15 18:01	63 63	6/6/15 12:01 6/6/15 12:31	63 63	11/6/15 18:31 63 12/6/15 7:01 61	17/6/15 13:01 64 17/6/15 13:31 64	24/6/15 7:31 63 24/6/15 8:01 41	29/6/15 14:01 64 29/6/15 14:31 64
1/6/15 18:31	63	6/6/15 13:01	63	12/6/15 7:31 63	17/6/15 14:01 64	24/6/15 8:31 55	29/6/15 15:01 53
2/6/15 7:01 2/6/15 7:31	61 62	6/6/15 13:31 6/6/15 14:01	63 64	12/6/15 8:01 63 12/6/15 8:31 64	17/6/15 14:31 64 17/6/15 15:01 47	24/6/15 9:01 64 24/6/15 9:31 51	29/6/15 15:31 64 29/6/15 16:01 64
2/6/15 8:01	63	6/6/15 14:31	64	12/6/15 9:01 64	17/6/15 15:31 49	24/6/15 10:01 64	29/6/15 16:31 64
2/6/15 8:31 2/6/15 9:01	64 64	6/6/15 15:01 6/6/15 15:31	63 63	12/6/15 9:31 64 12/6/15 10:01 64	17/6/15 16:01 59 17/6/15 16:31 64	24/6/15 10:31 64 24/6/15 11:01 64	29/6/15 17:01 64 29/6/15 17:31 64
2/6/15 9:31	64	6/6/15 16:01	64	12/6/15 10:01 64	17/6/15 17:01 63	24/6/15 11:31 63	29/6/15 18:01 58
2/6/15 10:01	64	6/6/15 16:31	63	12/6/15 11:01 64	17/6/15 17:31 63	24/6/15 12:01 64	29/6/15 18:31 64
2/6/15 10:31 2/6/15 11:01	34 48	6/6/15 17:01 6/6/15 17:31	63 63	12/6/15 11:31 63 12/6/15 12:01 64	17/6/15 18:01 63 17/6/15 18:31 63	24/6/15 12:31 63 24/6/15 13:01 63	30/6/15 7:01 61 30/6/15 7:31 62
2/6/15 11:31	47	6/6/15 18:01	63	12/6/15 12:31 64	18/6/15 7:01 62	24/6/15 13:31 64	30/6/15 8:01 63
2/6/15 12:01 2/6/15 12:31	64 64	6/6/15 18:31 8/6/15 7:01	63 61	12/6/15 13:01 57 12/6/15 13:31 58	18/6/15 7:31 64 18/6/15 8:01 46	24/6/15 14:01 64 24/6/15 14:31 64	30/6/15 8:31 64 30/6/15 9:01 64
2/6/15 13:01	63	8/6/15 7:31	62	12/6/15 14:01 64	18/6/15 8:31 64	24/6/15 15:01 64	30/6/15 9:31 63
2/6/15 13:31 2/6/15 14:01	63 64	8/6/15 8:01 8/6/15 8:31	63 63	12/6/15 14:31 64 12/6/15 15:01 64	18/6/15 9:01 45 18/6/15 9:31 43	24/6/15 15:31 64 24/6/15 16:01 64	30/6/15 10:01 64 30/6/15 10:31 64
2/6/15 14:31	64	8/6/15 9:01	63	12/6/15 15:31 64	18/6/15 10:01 54	24/6/15 16:31 64	30/6/15 11:01 64
2/6/15 15:01	64	8/6/15 9:31	63	12/6/15 16:01 64	18/6/15 10:31 52	24/6/15 17:01 64	30/6/15 11:31 64
2/6/15 15:31 2/6/15 16:01	64 64	8/6/15 10:01 8/6/15 10:31	63 64	12/6/15 16:31 63 12/6/15 17:01 64	18/6/15 11:01 54 18/6/15 11:31 50	24/6/15 17:31 63 24/6/15 18:01 63	30/6/15 12:01 64 30/6/15 12:31 64
2/6/15 16:31	64	8/6/15 11:01	41	12/6/15 17:31 63	18/6/15 12:01 50	24/6/15 18:31 63	30/6/15 13:01 64
2/6/15 17:01 2/6/15 17:31	64 64	8/6/15 11:31 8/6/15 12:01	64 64	12/6/15 18:01 63 12/6/15 18:31 63	18/6/15 12:31 52 18/6/15 13:01 53	25/6/15 7:01 60 25/6/15 7:31 62	30/6/15 13:31 64 30/6/15 14:01 64
2/6/15 18:01	64	8/6/15 12:31	64	13/6/15 7:01 63	18/6/15 13:31 64	25/6/15 8:01 63	30/6/15 14:31 64
2/6/15 18:31 3/6/15 7:01	64 62	8/6/15 13:01 8/6/15 13:31	64 63	13/6/15 7:31 61 13/6/15 8:01 62	18/6/15 14:01 64 18/6/15 14:31 64	25/6/15 8:31 64 25/6/15 9:01 51	30/6/15 15:01 64 30/6/15 15:31 64
3/6/15 7:31	62	8/6/15 14:01	63	13/6/15 8:31 62	18/6/15 15:01 63	25/6/15 9:31 56	30/6/15 16:01 64
3/6/15 8:01	63	8/6/15 14:31	64	13/6/15 9:01 63	18/6/15 15:31 64	25/6/15 10:01 55	30/6/15 16:31 44
3/6/15 8:31 3/6/15 9:01	64 64	8/6/15 15:01 8/6/15 15:31	63 63	13/6/15 9:31 63 13/6/15 10:01 64	18/6/15 16:01 63 18/6/15 16:31 64	25/6/15 10:31 57 25/6/15 11:01 64	30/6/15 17:01 64 30/6/15 17:31 64
3/6/15 9:31	64	8/6/15 16:01	64	13/6/15 10:31 64	18/6/15 17:01 63	25/6/15 11:31 63	30/6/15 18:01 64
3/6/15 10:01 3/6/15 10:31	64 64	8/6/15 16:31 8/6/15 17:01	64 63	13/6/15 11:01 51 13/6/15 11:31 63	18/6/15 17:31 63 18/6/15 18:01 64	25/6/15 12:01 57 25/6/15 12:31 64	30/6/15 18:31 64
3/6/15 11:01	64	8/6/15 17:31	64	13/6/15 12:01 63	18/6/15 18:31 63	25/6/15 13:01 64	Normal Day 19:00-23:00,
3/6/15 11:31 3/6/15 12:01	64 63	8/6/15 18:01 8/6/15 18:31	63 63	13/6/15 12:31 63 13/6/15 13:01 63	19/6/15 7:01 62 19/6/15 7:31 62	25/6/15 13:31 64 25/6/15 14:01 64	Sunday & Holiday 07:00-23:00
3/6/15 12:31	64	9/6/15 7:01	60	13/6/15 13:31 63	19/6/15 8:01 63	25/6/15 14:31 64	1/6/15 19:01 63
3/6/15 13:01 3/6/15 13:31	64 63	9/6/15 7:31 9/6/15 8:01	62 63	13/6/15 14:01 63 13/6/15 14:31 63	19/6/15 8:31 64 19/6/15 9:01 64	25/6/15 15:01 64 25/6/15 15:31 64	1/6/15 19:06 63 1/6/15 19:11 63
3/6/15 14:01	64	9/6/15 8:31	64	13/6/15 15:01 64	19/6/15 9:31 64	25/6/15 16:01 55	1/6/15 19:16 62
3/6/15 14:31	63	9/6/15 9:01	63	13/6/15 15:31 47	19/6/15 10:01 64	25/6/15 16:31 64	1/6/15 19:21 63
3/6/15 15:01 3/6/15 15:31	64 64	9/6/15 9:31 9/6/15 10:01	64 63	13/6/15 16:01 63 13/6/15 16:31 63	19/6/15 10:31 64 19/6/15 11:01 64	25/6/15 17:01 64 25/6/15 17:31 64	1/6/15 19:26 63 1/6/15 19:31 63
3/6/15 16:01	64	9/6/15 10:31	63	13/6/15 17:01 63	19/6/15 11:31 64	25/6/15 18:01 46	1/6/15 19:36 63
3/6/15 16:31 3/6/15 17:01	64 64	9/6/15 11:01 9/6/15 11:31	63 63	13/6/15 17:31 63 13/6/15 18:01 64	19/6/15 12:01 63 19/6/15 12:31 64	25/6/15 18:31 64 26/6/15 7:01 62	1/6/15 19:41 63 1/6/15 19:46 62
3/6/15 17:31	64	9/6/15 12:01	63	13/6/15 18:31 63	19/6/15 13:01 63	26/6/15 7:31 63	1/6/15 19:51 62
3/6/15 18:01 3/6/15 18:31	64 64	9/6/15 12:31 9/6/15 13:01	64 63	15/6/15 7:01 62 15/6/15 7:31 62	19/6/15 13:31 63 19/6/15 14:01 63	26/6/15 8:01 63 26/6/15 8:31 63	1/6/15 19:56 62 1/6/15 20:01 62
4/6/15 7:01	61	9/6/15 13:31	63	15/6/15 8:01 63	19/6/15 14:31 64	26/6/15 9:01 63	1/6/15 20:06 62
4/6/15 7:31	61	9/6/15 14:01	63	15/6/15 8:31 64	19/6/15 15:01 64	26/6/15 9:31 64	1/6/15 20:11 62
4/6/15 8:01 4/6/15 8:31	63 63	9/6/15 14:31 9/6/15 15:01	63 64	15/6/15 9:01 64 15/6/15 9:31 49	19/6/15 15:31 64 19/6/15 16:01 64	26/6/15 10:01 64 26/6/15 10:31 63	1/6/15 20:16 62 1/6/15 20:21 47
4/6/15 9:01	64	9/6/15 15:31	63	15/6/15 10:01 64	19/6/15 16:31 64	26/6/15 11:01 64	1/6/15 20:26 64
4/6/15 9:31 4/6/15 10:01	64 64	9/6/15 16:01 9/6/15 16:31	63 63	15/6/15 10:31 64 15/6/15 11:01 64	19/6/15 17:01 64 19/6/15 17:31 64	26/6/15 11:31 64 26/6/15 12:01 64	1/6/15 20:31 62 1/6/15 20:36 63
4/6/15 10:31	47	9/6/15 17:01	63	15/6/15 11:31 63	19/6/15 18:01 63	26/6/15 12:31 63	1/6/15 20:41 62
4/6/15 11:01 4/6/15 11:31	53 64	9/6/15 17:31 9/6/15 18:01	63 63	15/6/15 12:01 63 15/6/15 12:31 63	19/6/15 18:31 63 22/6/15 7:01 62	26/6/15 13:01 64 26/6/15 13:31 64	1/6/15 20:46 62 1/6/15 20:51 62
4/6/15 12:01	64	9/6/15 18:31	63	15/6/15 13:01 63	22/6/15 7:31 63	26/6/15 14:01 64	1/6/15 20:56 62
4/6/15 12:31	64 63	10/6/15 7:01	61 62	15/6/15 13:31 63 15/6/15 14:01 64	22/6/15 8:01 63 22/6/15 8:31 64	26/6/15 14:31 64 26/6/15 15:01 64	1/6/15 21:01 61 1/6/15 21:06 61
4/6/15 13:01 4/6/15 13:31	63	10/6/15 7:31 10/6/15 8:01	63	15/6/15 14:01 64 15/6/15 14:31 64	22/6/15 8:31 64 22/6/15 9:01 55	26/6/15 15:31 64	1/6/15 21:06 61 1/6/15 21:11 62
4/6/15 14:01	64	10/6/15 8:31	63	15/6/15 15:01 64	22/6/15 9:31 64	26/6/15 16:01 64	1/6/15 21:16 62
4/6/15 14:31 4/6/15 15:01	64 64	10/6/15 9:01 10/6/15 9:31	64 64	15/6/15 15:31 64 15/6/15 16:01 64	22/6/15 10:01 50 22/6/15 10:31 64	26/6/15 16:31 64 26/6/15 17:01 64	1/6/15 21:21 61 1/6/15 21:26 61
4/6/15 15:31	63	10/6/15 10:01	64	15/6/15 16:31 64	22/6/15 11:01 64	26/6/15 17:31 64	1/6/15 21:31 61
4/6/15 16:01 4/6/15 16:31	63 64	10/6/15 10:31 10/6/15 11:01	64 64	15/6/15 17:01 64 15/6/15 17:31 65	22/6/15 11:31 64 22/6/15 12:01 51	26/6/15 18:01 64 26/6/15 18:31 64	1/6/15 21:36 62 1/6/15 21:41 62
4/6/15 17:01	64	10/6/15 11:31	64	15/6/15 18:01 60	22/6/15 12:31 64	27/6/15 7:01 60	1/6/15 21:46 62
4/6/15 17:31	64 64	10/6/15 12:01	64 64	15/6/15 18:31 63	22/6/15 13:01 64 22/6/15 13:31 64	27/6/15 7:31 61 27/6/15 8:01 62	1/6/15 21:51 61
4/6/15 18:01 4/6/15 18:31	64 64	10/6/15 12:31 10/6/15 13:01	64 63	16/6/15 7:01 62 16/6/15 7:31 63	22/6/15 13:31 64 22/6/15 14:01 64	27/6/15 8:01 62 27/6/15 8:31 63	1/6/15 21:56 61 1/6/15 22:01 60
5/6/15 7:01	61	10/6/15 13:31	51	16/6/15 8:01 64	22/6/15 14:31 64	27/6/15 9:01 63	1/6/15 22:06 59
5/6/15 7:31 5/6/15 8:01	62 63	10/6/15 14:01 10/6/15 14:31	64 64	16/6/15 8:31 64 16/6/15 9:01 64	22/6/15 15:01 64 22/6/15 15:31 64	27/6/15 9:31 63 27/6/15 10:01 63	1/6/15 22:11 59 1/6/15 22:16 60
5/6/15 8:31	64	10/6/15 15:01	64	16/6/15 9:31 64	22/6/15 16:01 58	27/6/15 10:31 64	1/6/15 22:21 59
5/6/15 9:01 5/6/15 9:31	64 64	10/6/15 15:31 10/6/15 16:01	48 64	16/6/15 10:01 64 16/6/15 10:31 64	22/6/15 16:31 64 22/6/15 17:01 64	27/6/15 11:01 64 27/6/15 11:31 64	1/6/15 22:26 60 1/6/15 22:31 59
5/6/15 10:01	64	10/6/15 16:31	64	16/6/15 11:01 63	22/6/15 17:31 64	27/6/15 12:01 63	1/6/15 22:36 59
5/6/15 10:31 5/6/15 11:01	64 63	10/6/15 17:01 10/6/15 17:31	64 64	16/6/15 11:31 64 16/6/15 12:01 64	22/6/15 18:01 64 22/6/15 18:31 63	27/6/15 12:31 63 27/6/15 13:01 64	1/6/15 22:41 59 1/6/15 22:46 59
5/6/15 11:31	63	10/6/15 18:01	63	16/6/15 12:31 63	23/6/15 7:01 62	27/6/15 13:31 64	1/6/15 22:51 60
5/6/15 12:01	64	10/6/15 18:31	62	16/6/15 13:01 63	23/6/15 7:31 64	27/6/15 14:01 64	1/6/15 22:56 58
5/6/15 12:31	63	11/6/15 7:01	62	16/6/15 13:31 63	23/6/15 8:01 56	27/6/15 14:31 64	2/6/15 19:01 64

Continuous Noi 2/6/15 19:06	ise Monitoring 63	Data ACL3 (City H 4/6/15 20:11 62	<u>all)</u>   6/6/15 21:16 62	7/6/15 14:21 63	8/6/15 19:26 63	10/6/15 20:31 62
2/6/15 19:11	63	4/6/15 20:16 62	6/6/15 21:21 61	7/6/15 14:26 64	8/6/15 19:31 63	10/6/15 20:36 62
2/6/15 19:16	63	4/6/15 20:21 62	6/6/15 21:26 61	7/6/15 14:31 63	8/6/15 19:36 63	10/6/15 20:41 62
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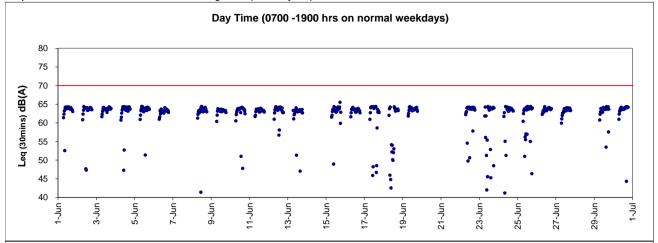
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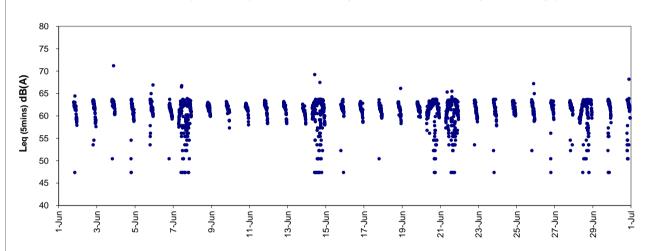
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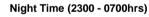
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27/6/15 1:31	58	28/6/15 2:36	59	29/6/15 3:41	56	30/6/15 4:46
27/6/15 1:36	59	28/6/15 2:41	56	29/6/15 3:46	56	30/6/15 4:51
27/6/15 1:41 27/6/15 1:46	59 57	28/6/15 2:46 28/6/15 2:51	56 57	29/6/15 3:51 29/6/15 3:56	56 56	30/6/15 4:56 30/6/15 5:01
27/6/15 1:51	56	28/6/15 2:56	56	29/6/15 4:01	55	30/6/15 5:06
27/6/15 1:56 27/6/15 2:01	56 56	28/6/15 3:01 28/6/15 3:06	56 56	29/6/15 4:06 29/6/15 4:11	56 56	30/6/15 5:11 30/6/15 5:16
27/6/15 2:06	57	28/6/15 3:11	56	29/6/15 4:16	56	30/6/15 5:21
27/6/15 2:11	56 57	28/6/15 3:16 28/6/15 3:21	56 56	29/6/15 4:21	56 56	30/6/15 5:26 30/6/15 5:31
27/6/15 2:16 27/6/15 2:21	57 56	28/6/15 3:26	56 56	29/6/15 4:26 29/6/15 4:31	56 56	30/6/15 5:36
27/6/15 2:26	56	28/6/15 3:31	56	29/6/15 4:36	56	30/6/15 5:41
27/6/15 2:31 27/6/15 2:36	56 56	28/6/15 3:36 28/6/15 3:41	56 56	29/6/15 4:41 29/6/15 4:46	56 56	30/6/15 5:46 30/6/15 5:51
27/6/15 2:41	56	28/6/15 3:46	56	29/6/15 4:51	56	30/6/15 5:56
27/6/15 2:46 27/6/15 2:51	56 56	28/6/15 3:51 28/6/15 3:56	57 56	29/6/15 4:56 29/6/15 5:01	56 57	30/6/15 6:01 30/6/15 6:06
27/6/15 2:56	57	28/6/15 4:01	56	29/6/15 5:06	56	30/6/15 6:11
27/6/15 3:01	56	28/6/15 4:06	56	29/6/15 5:11	56	30/6/15 6:16
27/6/15 3:06 27/6/15 3:11	56 56	28/6/15 4:11 28/6/15 4:16	56 56	29/6/15 5:16 29/6/15 5:21	57 57	30/6/15 6:21 30/6/15 6:26
27/6/15 3:16	56	28/6/15 4:21	56	29/6/15 5:26	57	30/6/15 6:31
27/6/15 3:21 27/6/15 3:26	56 56	28/6/15 4:26 28/6/15 4:31	56 56	29/6/15 5:31 29/6/15 5:36	57 57	30/6/15 6:36 30/6/15 6:41
27/6/15 3:31	56	28/6/15 4:36	56	29/6/15 5:41	57	30/6/15 6:46
27/6/15 3:36	56	28/6/15 4:41	56	29/6/15 5:46	57 57	30/6/15 6:51
27/6/15 3:41 27/6/15 3:46	56 56	28/6/15 4:46 28/6/15 4:51	56 57	29/6/15 5:51 29/6/15 5:56	57 58	30/6/15 6:56 30/6/15 23:01
27/6/15 3:51	56	28/6/15 4:56	56	29/6/15 6:01	58	30/6/15 23:06
27/6/15 3:56 27/6/15 4:01	56 56	28/6/15 5:01 28/6/15 5:06	57 60	29/6/15 6:06 29/6/15 6:11	57 57	30/6/15 23:11 30/6/15 23:16
27/6/15 4:06	55	28/6/15 5:11	57	29/6/15 6:16	57	30/6/15 23:21
27/6/15 4:11	57 56	28/6/15 5:16	59 57	29/6/15 6:21	59 59	30/6/15 23:26
27/6/15 4:16 27/6/15 4:21	56 56	28/6/15 5:21 28/6/15 5:26	57 57	29/6/15 6:26 29/6/15 6:31	59 59	30/6/15 23:31 30/6/15 23:36
27/6/15 4:26	56	28/6/15 5:31	57	29/6/15 6:36	59	30/6/15 23:41
27/6/15 4:31 27/6/15 4:36	56 56	28/6/15 5:36 28/6/15 5:41	57 56	29/6/15 6:41 29/6/15 6:46	59 60	30/6/15 23:46 30/6/15 23:51
27/6/15 4:41	56	28/6/15 5:46	58	29/6/15 6:51	60	30/6/15 23:56
27/6/15 4:46	56	28/6/15 5:51	57	29/6/15 6:56	60	
27/6/15 4:51 27/6/15 4:56	56 56	28/6/15 5:56 28/6/15 6:01	57 57	29/6/15 23:01 29/6/15 23:06	60 59	
27/6/15 5:01	56	28/6/15 6:06	57	29/6/15 23:11	59	
27/6/15 5:06 27/6/15 5:11	56 56	28/6/15 6:11 28/6/15 6:16	57 57	29/6/15 23:16 29/6/15 23:21	59 59	
27/6/15 5:16	57	28/6/15 6:21	57	29/6/15 23:26	59	
27/6/15 5:21	56	28/6/15 6:26	58	29/6/15 23:31	58	
27/6/15 5:26 27/6/15 5:31	56 57	28/6/15 6:31 28/6/15 6:36	57 57	29/6/15 23:36 29/6/15 23:41	59 58	
27/6/15 5:36	57	28/6/15 6:41	58	29/6/15 23:46	58	
27/6/15 5:41 27/6/15 5:46	57 58	28/6/15 6:46 28/6/15 6:51	58 60	29/6/15 23:51 29/6/15 23:56	58 58	
27/6/15 5:51	58	28/6/15 6:56	57	30/6/15 0:01	58	
27/6/15 5:56	58	28/6/15 23:01	67	30/6/15 0:06	58	
27/6/15 6:01 27/6/15 6:06	58 57	28/6/15 23:06 28/6/15 23:11	59 58	30/6/15 0:11 30/6/15 0:16	59 58	
27/6/15 6:11	57	28/6/15 23:16	58	30/6/15 0:21	58	
27/6/15 6:16 27/6/15 6:21	57 57	28/6/15 23:21 28/6/15 23:26	59 57	30/6/15 0:26 30/6/15 0:31	58 57	
27/6/15 6:26	58	28/6/15 23:31	57	30/6/15 0:36	57	

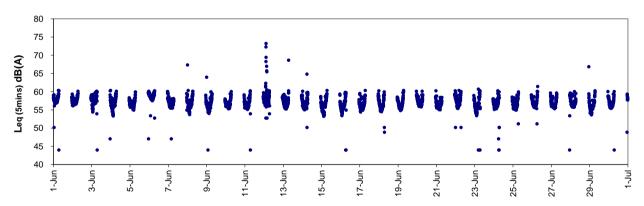
Graphic Presentation of Continuous Noise Monitoring Result (ACL3-City Hall)











## Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations



Location: ACL1 - City Hall

Report on 24-hour TSP monitoring Action Level (  $\mu$  g/m3) - 163 Limit Level (  $\mu$  g/m3) - 260

Date	Sampling	Weather		Filter Weigl	ht, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Qsi	Final, $Q_{sf}$	Average	Volume, m <sup>3</sup>	μg/m³
3-Jun-15	8:00	Fine	011737	2.8385	2.8734	21360.48	21384.48	24.00	1.12	1.12	1.12	1619	21.6
8-Jun-15	8:00	Cloudy	011738	2.8225	2.8590	21387.48	21411.48	24.00	1.14	1.14	1.14	1642	22.2
12-Jun-15	8:00	Cloudy	011764	2.8487	2.8836	21414.48	21438.48	24.00	1.20	1.20	1.20	1732	20.2
18-Jun-15	8:00	Fine	012321	2.8318	2.8727	21441.55	21465.55	24.00	1.14	1.14	1.14	1637	25.0
23-Jun-15	8:00	Fine	011941	2.8186	2.9004	21468.54	21492.54	24.00	1.14	1.14	1.14	1645	49.7
29-Jun-15	8:00	Fine	012334	2.8405	2.8990	21495.55	21519.55	24.00	1.14	1.14	1.14	1639	35.7

Report on 1-hour TSP monitoring Action Level (  $\mu$  g/m3) - 460 Limit Level (  $\mu$  g/m3) - 500

Date	Sampling	Weather	Filter	Filter Weig	ht, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m³/ı	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, $Q_{sf}$	Average	Volume, m <sup>3</sup>	μg/m³
4-Jun-15	9:09	Fine	012168	2.8214	2.8221	21384.48	21385.48	1.00	1.12	1.12	1.12	67	10.4
4-Jun-15	10:12	Fine	012171	2.8302	2.8345	21385.48	21386.48	1.00	1.12	1.12	1.12	67	63.7
4-Jun-15	13:00	Fine	012174	2.8257	2.8259	21386.48	21387.48	1.00	1.12	1.12	1.12	67	3.0
9-Jun-15	8:05	Cloudy	012099	2.8394	2.8420	21411.48	21412.48	1.00	1.14	1.14	1.14	68	38.0
9-Jun-15	9:15	Cloudy	012048	2.8414	2.8447	21412.48	21413.48	1.00	1.14	1.14	1.14	68	48.3
9-Jun-15	10:17	Cloudy	011770	2.8323	2.8376	21413.48	21414.48	1.00	1.14	1.14	1.14	68	77.5
13-Jun-15	9:08	Cloudy	011746	2.8106	2.8141	21438.48	21439.48	1.00	1.20	1.20	1.20	72	48.6
13-Jun-15	10:11	Cloudy	011743	2.8230	2.8277	21439.48	21440.48	1.00	1.20	1.20	1.20	72	65.2
13-Jun-15	13:00	Cloudy	012314	2.8114	2.8139	21440.48	21441.48	1.00	1.20	1.20	1.20	72	34.7
19-Jun-15	8:05	Fine	012264	2.8515	2.8552	21465.55	21466.55	1.00	1.14	1.14	1.14	68	54.2
19-Jun-15	9:15	Fine	012265	2.8410	2.8456	21466.55	21467.55	1.00	1.14	1.14	1.14	68	67.4
19-Jun-15	10:20	Fine	012140	2.8113	2.8153	21467.55	21468.55	1.00	1.14	1.14	1.14	68	58.6
24-Jun-15	8:15	Fine	011958	2.8107	2.8159	21492.54	21493.54	1.00	1.14	1.14	1.14	69	75.9
24-Jun-15	9:20	Fine	012271	2.8214	2.8268	21493.54	21494.54	1.00	1.14	1.14	1.14	69	78.8
24-Jun-15	10:25	Fine	012274	2.8079	2.8144	21494.54	21495.54	1.00	1.14	1.14	1.14	69	94.9
30-Jun-15	8:15	Fine	012486	2.8216	2.8239	21519.55	21520.55	1.00	1.14	1.14	1.14	68	33.7
30-Jun-15	9:20	Fine	012483	2.8292	2.8326	21520.55	21521.55	1.00	1.14	1.14	1.14	68	49.8
30-Jun-15	10:25	Fine	012277	2.8107	2.8145	21521.55	21522.55	1.00	1.14	1.14	1.14	68	55.6



Location: ACL2a - Contractor HK/2012/08 Site office

Report on 24-hour TSP monitoring Action Level (  $\mu$  g/m3) - 187.3 Limit Level (  $\mu$  g/m3) - 260

Date	Sampling	Weather		Filter Weigl	ht, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, $Q_{\text{sf}}$	Average	Volume, m <sup>3</sup>	μg/m³
3-Jun-15	8:00	Fine	012188	2.8363	2.8727	3682.05	3706.05	24.00	0.99	0.99	0.99	1430	25.5
9-Jun-15	16:25	Cloudy	011846	2.7162	2.7913	3731.56	3755.56	24.00	1.05	1.05	1.05	1513	49.7
12-Jun-15	8:00	Cloudy	011848	2.7136	2.7622	3755.57	3779.57	24.00	1.06	1.05	1.05	1518	32.0
19-Jun-15	16:50	Fine	011979	2.8331	2.8482	3785.68	3809.68	24.00	1.00	1.00	1.00	1436	10.5
23-Jun-15	8:00	Fine	011972	2.8492	2.9036	3809.68	3833.68	24.00	1.06	1.05	1.06	1519	35.8
30-Jun-15	16:30	Fine	012466	2.8227	2.8958	3839.68	3863.68	24.00	1.00	1.00	1.00	1436	50.9

Due to interruption of electricity supply, the 24hr TSP was rescheduled from 8, 18 and 29 June 2015 to 9, 19 and 30 June 2015 respectively.

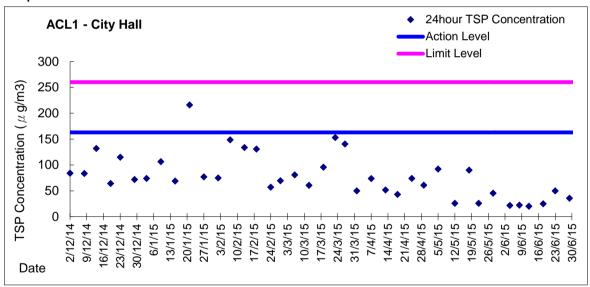
Report on 1-hour TSP monitoring Action Level (  $\mu$  g/m3) - 300.1 Limit Level (  $\mu$  g/m3) - 500

Date	Sampling	Weather	Filter	Filter Weig	ht, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m <sup>3</sup> /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q <sub>si</sub>	Final, $Q_{sf}$	Average	Volume, m <sup>3</sup>	μg/m³
4-Jun-15	13:00	Fine	012192	2.8061	2.8075	3706.05	3707.05	1.00	0.99	0.99	0.99	60	23.5
4-Jun-15	14:17	Fine	011741	2.8143	2.8193	3707.05	3708.05	1.00	0.99	0.99	0.99	60	84.0
4-Jun-15	15:20	Fine	011761	2.8100	2.8126	3708.05	3709.05	1.00	0.99	0.99	0.99	60	43.7
9-Jun-15	13:00	Cloudy	011768	2.8248	2.8294	3728.56	3729.56	1.00	0.99	0.99	0.99	59	77.3
9-Jun-15	14:15	Cloudy	012136	2.8300	2.8325	3729.56	3730.56	1.00	1.05	1.05	1.05	63	39.7
9-Jun-15	15:20	Cloudy	012139	2.8178	2.8230	3730.56	3731.56	1.00	1.05	1.05	1.05	63	82.5
13-Jun-15	8:30	Cloudy	011982	2.8301	2.8328	3779.57	3780.57	1.00	1.05	1.05	1.05	63	42.7
13-Jun-15	9:40	Cloudy	011985	2.8018	2.8053	3780.57	3781.57	1.00	1.05	1.05	1.05	63	55.4
13-Jun-15	10:44	Cloudy	012325	2.8150	2.8179	3781.57	3782.57	1.00	1.05	1.05	1.05	63	45.9
19-Jun-15	10:50	Fine	011993	2.8258	2.8367	3782.67	3783.67	1.00	1.00	1.00	1.00	60	182.3
19-Jun-15	13:00	Fine	011962	2.8169	2.8225	3783.67	3784.67	1.00	1.00	1.00	1.00	60	93.6
19-Jun-15	15:12	Fine	011968	2.8316	2.8376	3784.67	3785.67	1.00	1.00	1.00	1.00	60	100.3
24-Jun-15	13:00	Fine	012337	2.8289	2.8321	3833.68	3834.68	1.00	1.00	1.00	1.00	60	53.4
24-Jun-15	14:08	Fine	012288	2.8143	2.8189	3834.68	3835.68	1.00	1.00	1.00	1.00	60	76.6
24-Jun-15	15:10	Fine	012283	2.8123	2.8175	3835.68	3836.68	1.00	1.00	1.00	1.00	60	86.6
30-Jun-15	13:00	Fine	012477	2.7972	2.7996	3833.68	3834.68	1.00	1.05	1.05	1.05	63	38.1
30-Jun-15	14:10	Fine	012474	2.8225	2.8257	3837.68	3838.68	1.00	1.05	1.05	1.05	63	50.7
30-Jun-15	15:20	Fine	012469	2.8254	2.8283	3838.68	3839.68	1.00	1.05	1.05	1.05	63	46.0



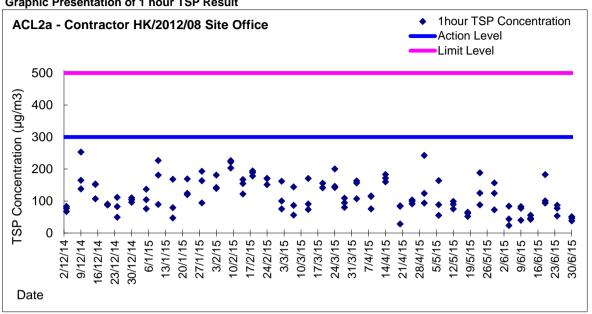
**Graphic Presentation of 1 hour TSP Result** 1hour TSP Concentration **ACL1 - City Hall** Action Level Limit Level 500 TSP Concentration (µg/m3) 400 300 200 100 0 24/2/15 12/5/15 10/2/15 17/2/15 10/3/15 17/3/15 24/3/15 14/4/15 21/4/15 28/4/15 2/12/14 -9/12/14 6/1/15 20/1/15 -27/1/15 -3/2/15 -3/3/15 -31/3/15 -7/4/15 - 21/2/3 19/5/15 -16/12/14 23/12/14 13/1/15 30/12/14 Date

#### **Graphic Presentation of 24 hour TSP Result**

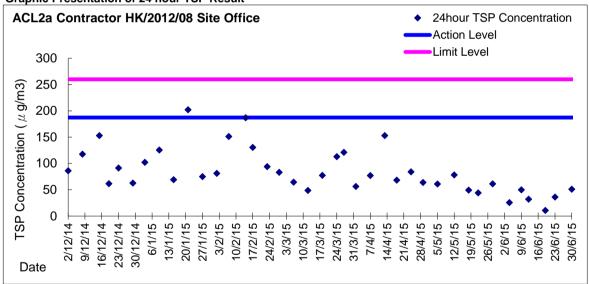




**Graphic Presentation of 1 hour TSP Result** 



**Graphic Presentation of 24 hour TSP Result** 



## Appendix 5.4

Water Quality Monitoring Results and Graphical Presentations



## Water Monitoring Result at M5B - Central Cooling Water Intake Group Mid-Flood Tide

Date	Time	Weater Condition		ig Depth	Wat	er Temp	erature		pH -			Salinii ppt	ty	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	ded Solids g/L
			'	11	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
1/6/15	16:54	Cloudy	Middle	3.5	27.50	27.50	27.35	8.37	8.37	8.38	26.87	26.87	26.90	70.8	70.8	70.1	4.84	4.84	4.79	3.51	3.45	3.47	4	4.00
	16:56		Middle	3.5	27.20	27.20		8.39	8.39		26.92	26.92		69.6	69.3		4.75	4.74		3.43	3.50		4	<u> </u>
3/6/15	20:24	Cloudy	Middle	3.0	27.50	27.50	27.55	8.18	8.18	8.18	27.69	27.69	27.69	71.8	71.1	71.0	4.86	4.81	4.81	3.84	3.70	3.67	4	4.00
	20:25		Middle	3.0	27.60	27.60		8.18	8.18		27.69	27.69		70.5	70.7		4.77	4.78		3.60	3.53		4	
5/6/15	21:24	Cloudy	Middle	3.5	26.50	26.50	26.60	8.08	8.08	8.09	28.92	28.92	28.92	71.6	71.9	71.6	4.89	4.91	4.88	2.82	3.01	2.85	2	2.00
	21:25		Middle	3.5	26.70	26.70		8.09	8.09		28.92	28.92		71.6	71.1		4.88	4.85		2.88	2.68		2	<u> </u>
8/6/15	9:20	Fine	Middle	3.5	26.70	26.70	26.80	8.13	8.13	8.15	29.03	29.03	29.03	70.3	71.4	71.4	4.78	4.85	4.85	2.71	2.66	2.67	2	2.00
	9:22		Middle	3.5	26.90	26.90		8.16	8.16		29.03	29.03		71.8	72.1		4.87	4.89		2.65	2.64		2	<u> </u>
10/6/15	11:50	Fine	Middle	3.0	28.20	28.20	28.30	8.30	8.30	8.31	27.22	27.22	27.22	74.3	74.5	73.7	4.97	4.99	4.94	3.75	3.72	3.73	4	4.00
	11:52		Middle	3.0	28.40	28.40		8.31	8.31		27.21	27.21		73.4	72.7		4.91	4.87		3.72	3.73		4	<u> </u>
12/6/15	14:47	Fine	Middle	3.5	27.60	27.60	27.70	8.25	8.25	8.27	28.10	28.10	28.07	65.0	63.2	62.7	4.37	4.25	<u>4.21</u>	3.34	3.33	3.36	4	3.00
	14:49		Middle	3.5	27.80	27.80		8.28	8.28		28.04	28.04		62.2	60.4		4.16	4.06		3.35	3.42		2	
15/6/15	18:25	Fine	Middle	3.0	26.90	26.90	27.05	8.13	8.13	8.12	30.53	30.53	30.53	73.8	73.1	73.8	4.79	4.76	4.80	4.34	4.31	4.28	5	5.00
	18:27		Middle	3.0	27.20	27.20		8.11	8.11		30.53	30.53		74.1	74.3		4.82	4.83		4.23	4.22		5	
17/6/15	21:44	Cloudy	Middle	3.5	27.30	27.30	27.35	8.16	8.16	8.17	30.13	30.13	30.13	77.0	77.7	77.3	5.14	5.19	5.16	5.23	5.14	5.14	7	6.50
	21:45 22:56		Middle Middle	3.5	27.40	27.40		8.17	8.17		30.13	30.13		77.9 76.7	76.4 78.5		5.19	5.10 5.32		5.10 2.59	5.08 2.45		6 5	
19/6/15	22:57	Fine	Middle	3.0	26.90	27.10	27.03	8.09	8.09	8.07	28.96	28.96	28.97	77.4	77.2	77.5	5.25	5.24	5.25	2.33	2.43	2.42	5	5.00
	10:00		Middle	3.5	27.10	27.10		8.33	8.33		26.54	26.54		44.3	43.8		3.03	3.00		2.23	2.25		4	
22/6/15	10:02	Cloudy	Middle	3.5	27.20	27.20	27.15	8.34	8.34	8.34	26.56	26.56	26.55	43.2	43.0	43.6	2.96	2.94	<u>2.98</u>	2.26	2.21	2.24	3	3.50
	0:51		Middle	3.0	27.70	27.70		8.33	8.33		25.11	25.11		81.3	81.9		5.56	5.60		2.54	2.57		3	
25/6/15	0:52	Cloudy	Middle	3.0	27.70	27.70	27.70	8.34	8.34	8.34	25.11	25.11	25.11	81.1	80.0	81.1	5.55	5.46	5.54	2.51	2.48	2.53	3	3.00
	0:08		Middle	3.0	28.20	28.20		8.34	8.34		23.64	23.64		82.3	84.1		5.62	5.75		2.46	2.52		8	
27/6/15	0:09	Cloudy	Middle	3.0	28.30	28.30	28.25	8.35	8.35	8.35	23.64	23.64	23.64	81.3	80.3	82.0	5.56	5.49	5.61	2.40	2.31	2.42	9	8.50
	16:25		Middle	3.5	29.60	29.60		8.40	8.40		24.41	24.41		91.3	91.8		6.06	6.09		3.53	3.52		6	
29/6/15	16:27	Fine	Middle	3.5	29.90	29.90	29.75	8.40	8.40	8.40	24.40	24.40	24.41	89.8	90.5	90.9	5.96	6.00	6.03	3.52	3.51	3.52	6	6.00



#### Water Monitoring Result at Culvert J - Reference Station Mid-Flood Tide

Date	Time	Weater Condition		g Depth	Wat	er Temp	erature		pH -			Salini	ty	D	O Satur	ation		DO mg/L			Turbidi NTU		Suspend	
			r	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	llue	Average	Va		Average	Va	llue	Average	Value	Average
1/6/15	16:51	Cloudy	Middle	3.5	27.40	27.40	27.45	8.31	8.31	8.33	27.04	27.04	27.02	57.7	61.5	59.4	3.92	4.18	4.04	4.42	4.39	4.37	5	4.00
	16:53		Middle	3.5	27.50	27.50		8.34	8.34		27.00	27.00		60.4	58.1		4.11	3.95		4.34	4.34		3	
3/6/15	20:32	Cloudy	Middle	2.5	27.10	27.10	27.10	8.18	8.18	8.17	25.84	25.84	25.84	61.6	61.4	61.5	4.24	4.23	4.23	5.05	5.02	4.95	5	5.00
	20:33	·	Middle	2.5	27.10	27.10		8.16	8.16		25.84	25.84		61.2	61.7		4.21	4.24		4.90	4.83		5	
5/6/15	21:30	Cloudy	Middle	3.0	26.70	26.70	26.75	8.10	8.10	8.09	27.23	27.23	27.23	61.4	61.8	61.4	4.23	4.26	4.23	6.50	6.44	6.38	7	6.50
	21:31		Middle	3.0	26.80	26.80		8.08	8.08		27.23	27.23		61.3	61.0		4.22	4.20		6.11	6.48		6	
8/6/15	9:15	Fine	Middle	3.0	27.20	27.20	27.30	8.10	8.10	8.10	26.75	26.75	26.75	56.3	57.5	57.6	3.84	3.93	3.93	4.68	4.68	4.68	4	3.50
	9:17		Middle	3.0	27.40	27.40		8.10	8.10		26.75	26.75		58.1	58.3		3.96	3.98		4.68	4.67		3	
10/6/15	11:45	Fine	Middle	2.5	28.70	28.70	28.80	8.23	8.23	8.25	26.61	26.61	26.61	71.8	72.4	71.2	4.78	4.81	4.73	4.32	4.29	4.21	5	6.00
	11:47		Middle	2.5	28.90	28.90		8.27	8.27		26.61	26.61		70.3	70.1		4.68	4.66		4.17	4.06		7	
12/6/15	14:44	Fine	Middle	3.5	28.70	28.70	28.80	8.23	8.23	8.23	27.32	27.32	27.33	51.1	51.1	49.9	3.39	3.38	3.31	3.77	3.76	3.75	3	3.50
	14:46	-	Middle	3.5	28.90	28.90		8.23	8.23		27.34	27.34		49.0	48.4		3.26	3.21		3.74	3.73		4	
15/6/15	18:30	Fine	Middle	2.5	27.20	27.20	27.45	8.20	8.20	8.22	28.26	28.26	28.26	69.7	70.2	69.8	4.69	4.72	4.69	3.22	3.23	3.23	6	5.50
	18:32	-	Middle	2.5	27.70	27.70		8.23	8.23		28.26	28.26		69.0	70.1		4.64	4.72		3.24	3.24		5	
17/6/15	21:34	Cloudy	Middle	3.0	28.20	28.20	28.25	8.18	8.18	8.18	27.21	27.21	27.21	83.7	84.9	83.5	5.60	5.68	5.59	7.28	7.31	7.29	6	6.50
	21:35	Í	Middle	3.0	28.30	28.30		8.17	8.17		27.20	27.20		82.4	83.1		5.51	5.56		7.25	7.33		7	
19/6/15	23:03	Fine	Middle	2.5	27.00	27.00	26.98	8.11	8.11	8.09	24.67	24.67	24.67	44.0	44.2	43.9	3.06	3.08	3.05	6.01	5.96	6.13	8	7.00
	23:04		Middle	2.5	26.90	27.00		8.07	8.07		24.67	24.67		43.4	43.8		3.02	3.05		6.18	6.36		6	
22/6/15	10:05	Cloudy	Middle	3.0	27.30	27.30	27.35	8.37	8.37	8.36	21.03	21.03	21.03	43.3	43.2	43.1	3.05	3.04	3.04	8.51	8.49	8.48	7	7.00
	10:07	Í	Middle	3.0	27.40	27.40		8.34	8.34		21.03	21.03		43.0	43.0		3.03	3.03		8.46	8.44		7	
25/6/15	0:57	Cloudy	Middle	2.5	27.80	27.80	27.80	8.27	8.27	8.27	21.99	21.99	22.00	71.6	72.3	71.5	4.97	5.02	4.97	3.97	3.52	3.60	3	4.00
	0:58	,	Middle	2.5	27.80	27.80		8.26	8.26	<u> </u>	22.00	22.00		71.2	71.0		4.94	4.93		3.48	3.44		5	
27/6/15	0:14	Cloudy	Middle	2.5	28.20	28.20	28.25	8.38	8.38	8.39	23.42	23.42	23.42	82.6	85.7	84.1	5.65	5.85	5.75	3.48	3.57	3.61	7	7.00
	0:15	,	Middle	2.5	28.30	28.30		8.39	8.39		23.42	23.42		84.4	83.8		5.77	5.73		3.72	3.65		7	
29/6/15	16:20	Fine	Middle	3.5	29.40	29.40	29.60	8.39	8.39	8.33	19.51	19.51	19.50	74.0	74.3	74.2	5.06	5.07	5.07	10.73	10.34	10.39	11	12.00
25/5/10	16:22		Middle	3.5	29.80	29.80	20.00	8.26	8.26	0.00	19.49	19.49	.0.00	74.2	74.3		5.06	5.07	0.07	10.36	10.12		13	.2.00



#### Water Monitoring Result at M5B - Central Colling Water Intake Group Mid-Ebb Tide

Date	Time	Weater Condition		g Depth	Wat	er Temp	erature		pH -			Salinit	ty	С	O Satur	ation		DO ma/L			Turbid		Suspend	ded Solids
1		00.101.011	n	n	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	llue	Average	Va		Average	Va	ılue	Average	Value	Average
1/6/15	10:41	Cloudy	Middle	3.5	27.40	27.40	27.40	8.27	8.27	8.30	27.48	27.48	27.48	58.4	58.3	59.5	3.96	3.96	4.04	4.92	4.92	4.92	5	5.50
170/10	10:43	Cicuay	Middle	3.5	27.40	27.40	27.40	8.32	8.32	0.00	27.47	27.47	27.40	60.6	60.8	00.0	4.11	4.13	4.04	4.92	4.91	4.02	6	0.00
3/6/15	10:40	Fine	Middle	3.5	27.20	27.20	27.25	8.12	8.12	8.16	28.03	28.03	28.03	68.5	68.5	68.1	4.64	4.64	4.61	2.75	2.73	2.73	2	2.00
	10:42		Middle	3.5	27.30	27.30		8.19	8.19		28.02	28.02		67.9	67.5		4.60	4.57	-	2.72	2.71		2	
5/6/15	11:30	Cloudy	Middle	3.5	26.90	26.90	27.05	8.17	8.17	8.17	30.27	30.27	30.27	71.0	70.6	70.7	4.76	4.74	4.74	2.49	4.46	2.97	4	3.50
	11:32	,	Middle	3.5	27.20	27.20		8.17	8.17		30.27	30.27		70.4	70.6		4.73	4.74		2.46	2.46		3	<u> </u>
8/6/15	16:35	Fine	Middle	3.5	27.80	27.80	27.85	8.19	8.19	8.20	28.88	28.88	28.87	65.8	66.2	65.4	4.40	4.42	4.36	3.53	3.49	3.50	3	3.50
	16:37		Middle	3.5	27.90	27.90		8.21	8.21		28.85	28.85		65.4	64.0		4.37	4.26		3.49	3.50		4	<u> </u>
10/6/15	16:43	Fine	Middle	3.5	27.60	27.60	27.65	8.31	8.31	8.34	26.98	26.98	26.98	66.2	66.0	65.1	4.48	4.47	<u>4.41</u>	2.93	2.99	2.92	7	7.00
	16:45		Middle	3.5	27.70	27.70		8.37	8.37		26.98	26.98		65.1	63.0		4.41	4.27		2.87	2.87		7	<u> </u>
12/6/15	8:40	Fine	Middle	3.0	27.40	27.40	27.50	8.26	8.26	8.28	25.46	25.46	25.45	69.3	71.3	70.8	4.75	4.88	4.85	3.70	3.72	3.74	2	2.00
	8:42		Middle	3.0	27.60	27.60		8.30	8.30		25.44	25.44		71.3	71.4		4.89	4.89		3.76	3.77		2	<u> </u>
15/6/15	10:45	Fine	Middle	3.0	27.30	27.30	27.35	8.25	8.25	8.26	28.23	28.23	28.22	74.2	74.4	74.3	5.01	5.03	5.02	2.51	2.64	2.76	2	3.00
	10:47		Middle	3.0	27.40	27.40		8.26	8.26		28.21	28.21		73.9	74.6		5.00	5.04		2.92	2.98		4	<del>                                     </del>
17/6/15	11:33	Fine	Middle	3.5	27.50	27.50	27.65	8.23	8.23	8.24	29.73	29.73	29.73	70.8	71.9	70.7	4.72	4.79	4.71	2.70	2.70	2.71	4	4.00
	11:35		Middle	3.5	27.80	27.80		8.25	8.25		29.72	29.73		70.4	69.6		4.69	4.63		2.70	2.72		4	<del>                                     </del>
19/6/15	16:09	Fine	Middle	3.5	28.90	28.90	29.00	8.18	8.18	8.21	28.50	28.50	28.48	60.9	60.4	60.3	4.01	3.97	3.96	2.87	2.65	2.70	4	3.50
	16:11 15:44		Middle Middle	3.5	29.10	29.10		8.23	8.23		28.46	28.46		59.8	60.0		3.93	3.94 4.40		2.64	2.65		3	
22/6/15	15:44	Fine	Middle	3.5	28.50	28.50	28.55	8.42	8.42 8.46	8.44	25.32 25.30	25.32 25.30	25.31	65.7	65.3 62.7	64.5	4.43	4.40	<u>4.35</u>	2.27	2.27	2.32	5 4	4.50
	15:35		Middle	3.0	28.00	28.00		8.44	8.44		25.14	25.14		83.9			5.70	5.82		1.75	1.72		<2	<u> </u>
24/6/15	15:37	Cloudy	Middle	3.0	28.20	28.20	28.10	8.46	8.46	8.45	25.14	25.14	25.14	81.4	85.6 80.5	82.9	5.70	5.47	5.63	1.70	1.72	1.71	2	2.00
	21:30		Middle	3.0	28.30	28.30		8.37	8.37		24.01	24.01		82.5	84.0		5.61	5.72		3.31	3.47		8	
26/6/15	21:31	Cloudy	Middle	3.0	28.40	28.40	28.35	8.37	8.37	8.37	24.01	24.01	24.01	85.4	85.0	84.2	5.81	5.79	5.73	3.65	3.57	3.50	8	8.00
	11:20		Middle	3.0	29.40	29.40		8.43	8.43		23.11	23.11		88.8	88.2		5.96	5.92		3.15	3.04		8	
29/6/15	11:22	Fine	Middle	3.0	29.50	29.50	29.45	8.46	8.46	8.45	23.11	23.11	23.11	89.1	87.4	88.4	5.98	5.87	5.93	3.09	3.20	3.12	8	8.00

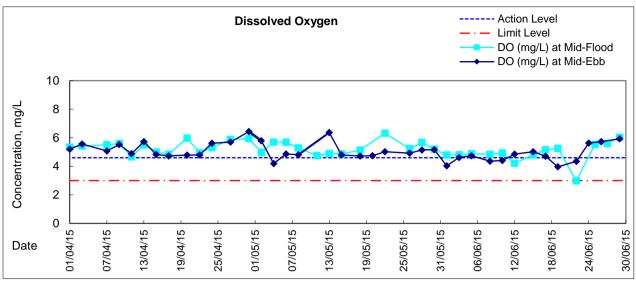
Remarks: Single underline denotes exceedance over Action Level. Double underline denotes exceedance over Limit Level.

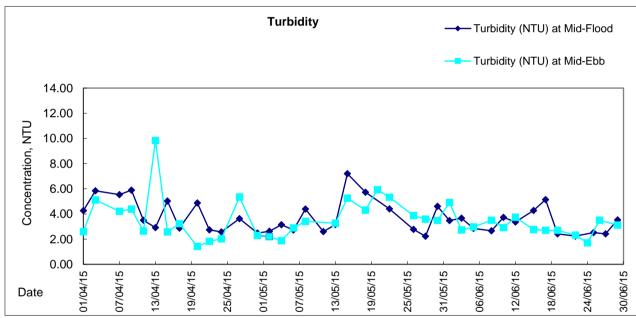


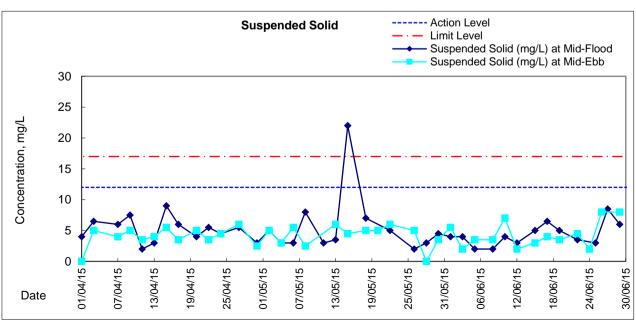
## Water Monitoring Result at Culvert J - Reference Station Mid-Ebb Tide

Date	Time	Weater Condition		g Depth	Wat	ter Temp	perature		pH -			Salini	ty	С	OO Satur	ation		DO ma/L			Turbio			ded Solids
			r	n	Va	alue	Average	Va	alue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average	Va	alue	Average	Value	Average
1/6/15	10:37	Cloudy	Middle	4	27.60	27.60	27.55	8.24	8.24	8.25	25.29	25.29	25.29	53.0	52.3	52.0	3.63	3.57	3.56	8.07	8.07	8.15	4	4.00
170/10	10:39	Cloudy	Middle	4	27.50	27.50	27.00	8.26	8.26	0.25	25.29	25.29	25.25	51.7	51.0	32.0	3.53	3.49	0.00	8.22	8.24	0.10	4	4.00
3/6/15	10:35	Fine	Middle	4	28.10	28.10	28.15	8.01	8.01	8.01	22.43	22.43	22.43	50.4	51.2	51.3	3.48	3.53	3.54	9.04	9.04	9.02	5	5.00
3/0/13	10:37	Tille	Middle	4	28.20	28.20	20.10	8.01	8.01	0.01	22.42	22.42	22.40	51.7	51.8	31.3	3.56	3.57	0.04	9.00	9.00	3.02	5	3.00
5/6/15	11:25	Cloudy	Middle	4	27.40	27.40	27.55	8.15	8.15	8.15	30.22	30.22	30.21	56.1	57.4	56.8	3.71	3.82	3.77	3.49	3.51	3.51	6	5.50
6/6/10	11:27	o.ouu,	Middle	4	27.70	27.70	27.00	8.15	8.15	0.10	30.20	30.20	00.21	56.9	56.9	00.0	3.78	3.78	0	3.51	3.51	0.01	5	0.00
8/6/15	16:30	Fine	Middle	4	28.10	28.10	28.20	8.19	8.19	8.19	28.07	28.07	28.04	67.7	67.0	66.7	4.51	4.47	4.46	4.82	4.77	4.79	5	4.50
	16:32		Middle	4	28.30	28.30		8.18	8.18		28.00	28.00		68.0	64.0		4.60	4.27		4.77	4.80		4	
10/6/15	16:40	Fine	Middle	4	27.80	27.80	27.85	8.30	8.30	8.31	22.33	22.33	22.23	60.7	60.2	60.0	4.21	4.17	4.16	8.81	8.81	8.79	6	6.50
	16:42		Middle	4	27.90	27.90		8.31	8.31		22.13	22.13		59.6	59.4		4.13	4.12	_	8.77	8.77		7	
12/6/15	8:35	Fine	Middle	3	27.80	27.80	27.80	8.24	8.24	8.24	22.51	22.51	22.51	69.2	69.7	69.8	4.80	4.83	4.84	8.29	8.31	8.26	6	5.50
	8:37		Middle	3	27.80	27.80		8.24	8.24		22.51	22.51		70.0	70.2		4.85	4.86		8.28	8.16		5	
15/6/15	10:40	Fine	Middle	3	27.70	27.70	27.80	8.21	8.21	8.22	26.81	26.81	26.81	69.7	71.7	70.4	4.72	4.85	4.76	4.19	4.29	4.32	4	4.50
	10:42		Middle	3	27.90	27.90		8.22	8.22		26.81	26.81		70.0	70.0		4.73	4.73		4.33	4.48		5	
17/6/15	11:37	Fine	Middle	4	27.50	27.50	27.60	8.23	8.23	8.18	26.30	26.30	26.30	54.7	54.8	54.8	3.72	3.73	3.72	6.61	6.61	6.57	6	6.50
	11:39		Middle	4	27.70	27.70		8.13	8.13		26.29	26.29		54.9	54.9		3.74	3.70		6.54	6.50		7	
19/6/15	16:05	Fine	Middle	4	29.60	29.60	29.85	8.16	8.16	8.15	26.77	26.77	26.72	50.2	49.3	49.6	3.29	3.23	3.25	7.97	8.07	7.97	4	4.00
	16:07		Middle	4	30.10	30.10		8.14	8.14		26.67	26.67		49.5	49.4		3.24	3.23		8.31	7.51		4	
22/6/15	15:48	Fine	Middle	4	28.40	28.40	28.35	8.49	8.49	8.47	22.30	22.30	22.29	67.3	65.6	65.4	4.63	4.51	4.50	5.63	5.37	5.38	8	8.00
	15:50		Middle	4	28.30	28.30		8.45	8.45		22.28	22.28		64.7	63.8		4.45	4.39		5.22	5.28		8	
24/6/15	15:30	Cloudy	Middle	3	28.40	28.40	28.45	8.36	8.36	8.39	25.11	25.11	25.11	85.4	83.7	82.9	5.77	5.65	5.60	1.88	1.89	1.88	3	3.50
	15:32		Middle	3	28.50	28.50		8.42	8.42		25.10	25.10	 	81.6	80.8		5.51	5.46		1.88	1.87		4	<u> </u>
26/6/15	21:38	Cloudy	Middle	3	28.20	28.20	28.20	8.29	8.29	8.26	20.44	20.44	20.45	70.9	70.5	70.1	4.93	4.90	4.87	3.16	3.14	3.11	10	9.00
	21:39		Middle	3	28.20	28.20		8.23	8.23		20.46	20.46		69.7	69.1		4.85	4.81		3.07	3.05		8	
29/6/15	11:15	Fine	Middle	3	29.70	29.70	29.80	8.31	8.31	8.31	22.48	22.48	22.48	78.6	80.8	80.2	5.26	5.42	5.38	4.83	4.83	4.84	9	8.50
	11:17		Middle	3	29.90	29.90		8.31	8.31		22.48	22.48		81.0	80.4		5.45	5.38		4.83	4.87		8	

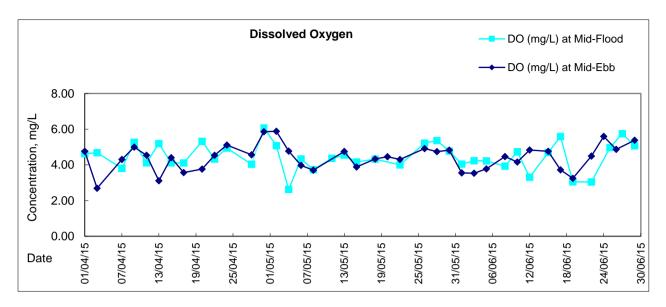
### Graphic Presentation of Water Quality Result of M5B - Central Cooling Water Intake Groups

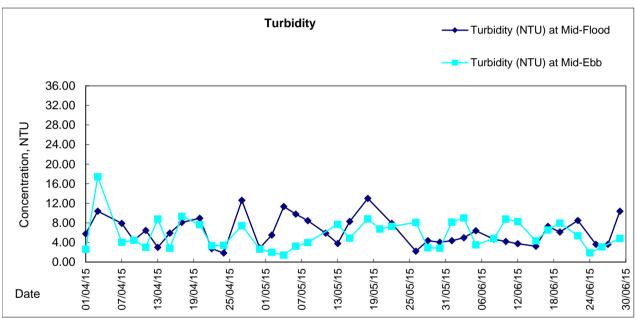


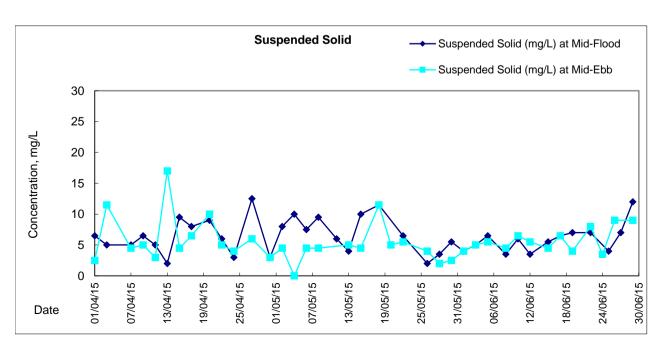












## Appendix 6.1

**Event Action Plans** 

Central Reclamation Phase III: Environmental Monitoring and Audit - Event and Action Plan for Air and Noise Quality

		Event and Action Plan for Air Quality		
Event	Action			
	ET Leader	IC(E)	ER	Contractor
Action Level - Exceedance for one sample	Identify source     Inform IC(E) and ER     Repeat measurement to confirm finding     Increase monitoring frequency to daily	Check monitoring data submitted by ET     Check Contractor's working method	Notify Contractor	Rectify any unacceptable practice     Amend working methods if appropriate
Action Level - Exceedance for two or more consecutive samples	Identify source     Inform IC(E) and ER     Repeat measurement to confirm finding     Increase monitoring frequency to daily     Discuss with IC(E) and Contractor on remedial actions     If exceedance continues, arrange meeting with IC(E) and ER     If exceedance stops cease additional monitoring	Check monitoring data submitted by ET     Check Contractor's working method     Discuss with ET and Contractor on possible remedial measures     Advise the ER on the effectiveness of the proposed remedial measures     Supervise the implementation of remedial measures	Confirm receipt of notification of failure in writing     Notify Contractor     Ensure remedial measures properly implemented	Submit proposals for remedial actions to IC(E) within 3 working days of notification     Implement the agreed proposals     Amend proposal if appropriate
Limit Level - Exceedance for one sample	Identify source     Inform ER and EPD     Repeat measurement to confirm findings     Increase monitoring frequency to daily     Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results	Check monitoring data submitted by ET     Check Contractor's working method     Discuss with ET and Contractor on possible remedial measures     Advise the ER on the effectiveness of the proposed remedial measures     Supervise the implementation of remedial measures	Confirm receipt of notification of failure in writing     Notify Contractor     Ensure remedial measures properly implemented	Take immediate action to avoid further exceedance     Submit proposal for remedial actions to IC(E) within 3 working days of notification     Implement the agreed measures
Limit Level - Exceedance for two or more consecutive samples	Notify IC(E), ER, Contractor and EPD     Identify source     Repeat measurements to confirm findings     Increase monitoring frequency to daily     Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented     Arrange meeting with IC(E) and ER to discuss the remedial actions to be taken     Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results     If exceedance stops, cease additional monitoring	Discuss amongst ER, ET, and Contractor on the potential remedial actions     Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly     Supervise the implementation of remedial measures	Confirm receipt of notification of failure in writing     Notify Contractor     In consultation with the IC(E), agree with the Contractor on the remedial measures to be implemented     Ensure remedial measures properly implemented     If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated	Take immediate action to avoid further exceedance     Submit proposals for remedial actions to IC(E) within 3 working days of notification     Implement the agreed proposals     Resubmit proposals if problem still not under control     Stop the relevant portion of works as determined by the ER until the exceedance is abated

Central Reclamation Phase III: Environmental Monitoring and Audit - Event and Action Plan for Air and Noise Quality

Event	Action			
	ET Leader	IC(E)	ER	Contractor
Action Level is reached	Notify IC(E) and Contractor     Carry out investigation     Report the results of the investigation to the IC(E) and Contractor     Discuss with the Contractor and formulate remedial measures	Discuss amongst ER, ET and Contractor on the potential remedial actions     Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly     Supervise the implementation of remedial measures	Confirm receipt of notification of failure in writing     Notify Contractor     Require Contractor to propose remedial measures for the analyzed noise problem     Ensure remedial measures are properly implemented	Submit noise mitigation proposal to IC(E     Implement noise mitigation proposals
Limit Level is reached	Notify IC(E), ER, EPD and Contractor     Identify source     Repeat measurement to confirm findings     Carry out analysis of Contractor's     working procedures to determine     possible mitigation to be implemented     Inform IC(E), ER and EPD the causes &     actions taken for the exceedances     Assess effectiveness of Contractor's     remedial actions and keep IC(E), EPD     and ER informed of the results     If exceedance stops cease additional     monitoring	Discuss amongst ER, ET and Contractor on the potential remedial actions     Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly     Supervise the implementation of remedial measures	Confirm receipt of notification of failure in writing     Notify Contractor     Require Contractor to propose remedial measures for the analyzed noise problem     Ensure remedial measures are properly implemented     If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion or work until the exceedance is abated	Take immediate action to avoid further exceedance     Submit proposals for remedial actions to IC(E) within 3 working days of notification     Implement the agreed proposals     Resubmit proposals if problem still not under control     Stop the relevant portion of works as determined by the ER until the exceedance is abated

EVENT	ACTION												
	ET	IEC	ER	CONTRACTOR									
Action level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)									
Action level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; (The above actions should be taken within 1 working day after the exceedance is identified) Repeat measurement on next working day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)									

EVENT	ACTION											
	ET	IEC	ER	CONTRACTOR								
Limit level being exceeded by one sampling day	Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level.  (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)								
Limit level being exceeded by more than one consecutive sampling days	Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3working days; Implement the agreed mitigation measures; As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. (The above actions should be taken within 1 working day after the exceedance is identified)								

## Appendix 6.2

Summary for Notification of Exceedance



Ref no.	Date	Tidal	Location	Parameters	Measured	Action Level	Limit Level	Follow-up action	
X CR008	1-Jun-15		M5B	DO(mg/l)	4.04	4.60	3.00		Changes of water quality in the vicinity of water quality monitoring station in relate to nearby culvert discharge
				,					
				SS	5.50	12.00	17.00	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedance. Checking with contractor works and review previous monitoring data.
								taken.	
								Remarks/ Other Obs:	Despite placing of rockfill was conducted under Contract HK/2012/08 on the monitoring date, contractor mitigation measures including the use of silt curtain
									was in place and silt curtain installed around intake monitoring station was generally in order while nearby culvert discharge was consistently observed. In view of the above and no further exceedance was recorded in subsequent monitoring, it was considered that the exceedance was not project related.
									The state above and no tables exceedance was recorded in subsequent momenting, it was considered that the exceedance was not project related.
X CR009	8-Jun-15	Mid obb	M5B	DO(mg/l)	4.36	4.60	2.00	Possible reason:	Changes of water quality in the vicinity of water quality monitoring station in relate to nearby culvert discharge
A_CI1003	0-0411-13	Wild-ebb	WIOD	DO(IIIg/I)	4.30	4.00	3.00	r ossible reason.	Changes of water quality in the vicinity of water quality monitoring station in relate to hearby curvent discharge
				SS	3.50	12.00	17.00	Action taken/ to be	Immediate repeated in-situ measurement to confirm the exceedance. Checking with contractor works and review previous monitoring data.
								taken:	
								Remarks/ Other Obs:	Despite slope trimming was conducted under Contract HK/2012/08 on the monitoring date, contractor mitigation measures including the use of silt curtain
								rtomana outor obo.	was generally in place and silt curtain installed around intake monitoring station was generally in order while nearby culvert discharge was consistently
									observed. In view of the above and no further exceedance was recorded in subsequent monitoring, it was considered that the exceedance was not project related.
X CR010	10-Jun-15	Mid-ebb	M5B	DO(mg/l)	4.41	4.60	3.00	Possible reason:	related.  Changes of water quality in the vicinity of water quality monitoring station in relate to nearby culvert discharge
				, ,					
				SS	7.00	12.00	17.00	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedance. Checking with contractor works and review previous monitoring data.
								laken.	
								Remarks/ Other Obs:	Despite placing of rockfill was conducted under Contract HK/2012/08 on the monitoring date, contractor mitigation measures including the use of silt curtain
									was in place and silt curtain installed around intake monitoring station was generally in order while nearby culvert discharge was consistently observed. In view of the above and no further exceedance was recorded in subsequent monitoring, it was considered that the exceedance was not project related.
									The word and above and no rather exceedance was recorded in subsequent monitoring, it was considered that the exceedance was not project rotated.
X_CR011	12-Jun-15	Mid-flood	M5B	DO(mg/l)	4.21	4.60	3.00	Possible reason:	Changes of water quality in the vicinity of water quality monitoring station in relate to nearby culvert discharge
				SS	3.00	12.00	17.00	Action taken/ to be	Immediate repeated in-situ measurement to confirm the exceedance. Checking with contractor works and review previous monitoring data.
				00	0.00	12.00	17.00	taken:	The state of the s
								D I . (OII OI	N. series and and advantage of the Court of
								Remarks/ Other Obs:	No marine works was conducted under Contract HK/2012/08 on the monitoring date. Silt curtain installed around intake monitoring station was generally in order while nearby culvert discharge was consistently observed. In view of no marine activity was conducted and no further exceedance was recorded in
									subsequent monitoring, it was considered that the exceedance was not project related.
X CR012	19-Jun-15	Mid-ehh	M5B	DO(mg/l)	3.96	4.60	3.00	Possible reason:	Changes of water quality in the vicinity of water quality monitoring station in relate to nearby culvert discharge
A_CI(012	15-5011-15	Wild-ebb	WIJD	DO(IIIg/I)	3.30	4.00	3.00	Possible reason.	Changes of water quality in the vicinity of water quality monitoring station in relate to reality curver discharge
				SS	3.50	12.00	17.00	Action taken/ to be	Immediate repeated in-situ measurement to confirm the exceedance. Checking with contractor works and review previous monitoring data.
								taken:	
								Remarks/ Other Obs:	No marine works was conducted under Contract HK/2012/08 on the monitoring date. Silt curtain installed around intake monitoring station was generally in
								rtomana outor obo.	order while nearby culvert discharge was consistently observed. In view of no marine activity was conducted and no further exceedance was recorded in
									subsequent monitoring, it was considered that the exceedance was not project related.
X_CR013	22-Jun-15	Mid-flood	M5B	DO(mg/l)	2.98	4.60	3.00	Possible reason:	Changes of water quality in the vicinity of water quality monitoring station in relate to nearby culvert discharge
			1	SS	3.50	12.00	17.00	Action taken/ to be taken:	Immediate repeated in-situ measurement to confirm the exceedance. Checking with contractor works and review previous monitoring data.
			1						
			1					Remarks/ Other Obs:	Despite placing of geotextile was conducted under Contract HK/2012/08 on the monitoring date, contractor mitigation measures including the use of silt
			1						curtain was generally in place and silt curtain installed around intake monitoring station was generally in order while nearby culvert discharge was consistently observed. In view of the above, it was considered that the exceedance was not project related.
			1						
V CDO(1	00 1: 15	Mid -bb	MED	DO(/I)	4.05	4.00	2.00	Danible serves	
A_CR014	22-Jun-15	iviid-ebb	M5B	DO(mg/l)	4.35	4.60	3.00	Possible reason:	Changes of water quality in the vicinity of water quality monitoring station in relate to nearby culvert discharge
l l			1	SS	4.50	12.00	17.00	Action taken/ to be	Immediate repeated in-situ measurement to confirm the exceedance. Checking with contractor works and review previous monitoring data.
		1	1					taken:	
			1					Remarks/ Other Obs:	Despite placing of geotextile was conducted under Contract HK/2012/08 on the monitoring date, contractor mitigation measures including the use of silt
			1					ixemarks/ Other Obs:	curtain was in place and silt curtain installed around intake monitoring station was generally in order while nearby culvert discharge was consistently
			1						observed. In view of the above and no further exceedance was recorded in subsequent monitoring, it was considered that the exceedance was not project
			1						related.
		1	1		1			l	I.

Appendix 9.1

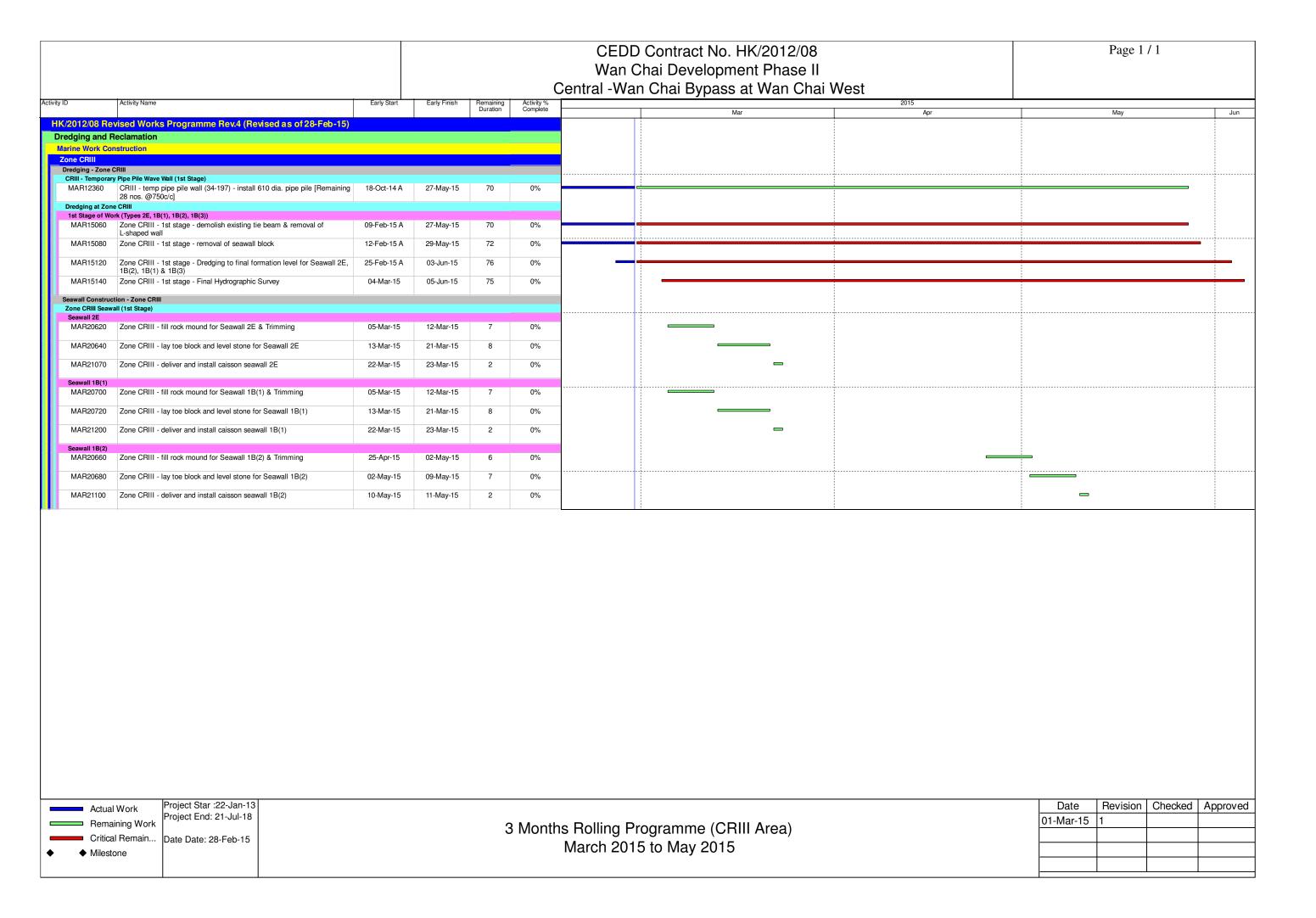
Complaint Log

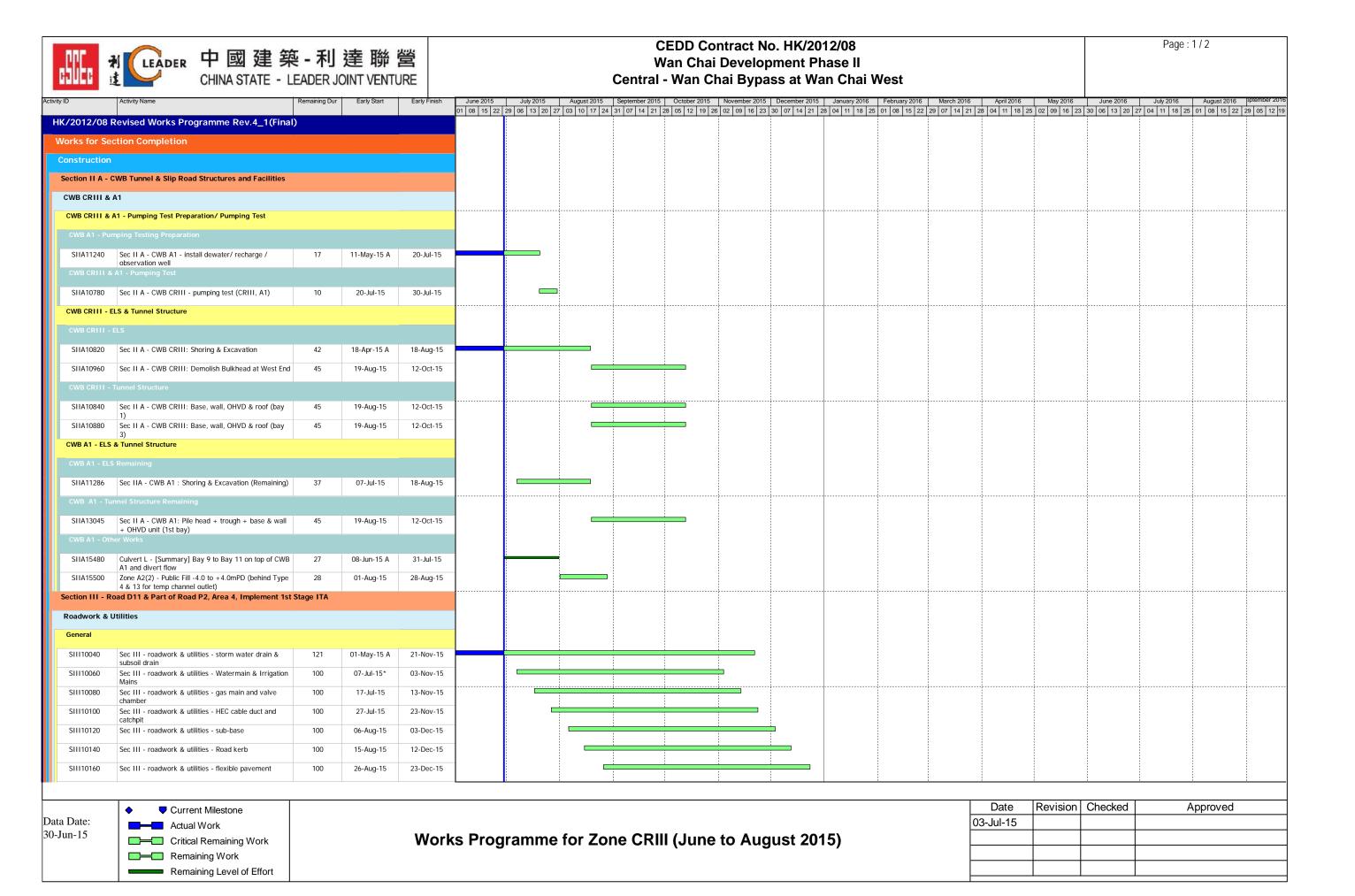
## **Environmental Complaints Log**

Complaint Log No.	Date of Complaint	Received From and Received By	Location of Complainant	Nature of Complaint	Outcome	Status
50211	21/1/2015	EPD complaint (EPD Ref.: H04/RS/0001716- 15) received by ET on 11 February 2015	Construction site opposite to CITIC Tower	Construction dust was emitted from a construction site opposite to CITIC Tower	According to the relevant site records, trench grabbing for D-wall construction and socket H-pile construction were conducted at the concerned location on 21 January 2015. Dust screen for socket H-pile construction, maintenance of site haul road in wet condition and water spraying at vehicle entrance/exit points of HK/2012/08 Contractor site office and Portion I were implemented by the Contractor of HK/2012/08 near the concerned location on 21 January 2015.  In addition, no environmental deficiency related to dust mitigation was identified at the concerned location during weekly environmental inspections conducted on 27 Jan, 3 and 10 Feb 2015 and dust mitigation measures including water spraying for dusty haul road and provision of wheel washing were in place and no dust related impact from the construction works at the concerned location was observed.  Meanwhile, the Air Quality Health Index (AQHI) recorded by EPD across Western District and Eastern District on 21 January 2015 was ranged from 4 to 10+ indicating a severely high concentration of ambient air pollutants. Based on reviewing relevant impact monitoring data, elevated TSP were recorded at monitoring stations across Central to Wan Chai West area despite a non-Project related exceedance was recorded at nearby monitoring station ACL2a (Contractor HK/2012/08 Site Office) on 21 January 2015 and was considered to be contributed by ambient air pollutant.  The site condition under Contract HK/2012/08 at the concerned location was considered to be generally satisfactory and no non-conformity related to cumulative air quality impact was observed at the concerned location. Nevertheless, in view of the public concern, the contractor was reminded to enhance the dust mitigation measures implemented to minimize potential nuisance to nearby public.	Closed

## Appendix 10.1

Construction Programme of Individual Contracts









# CEDD Contract No. HK/2012/08 Wan Chai Development Phase II Central - Wan Chai Bypass at Wan Chai West

Page	: 27	2
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Activity ID	Activity Name	Remaining Dur	Early Start	Early Finish	June 2015	July 2015	August 2015	September 2015	October 2015	November 2015	December 2015	January 2016	February 2016	March 2016	April 2016	May 2016	June 2016	July 2016	August 2016	eptember 2016
					01 08 15 22 2	29 06 13 20 27	03 10 17 24	31 07 14 21	28 05 12 19 2	6 02 09 16 23	30 07 14 21	28 04 11 18 2	25 01 08 15 22	29 07 14 21 2	8 04 11 18 2	25 02 09 16 23	30 06 13 20 2	7 04 11 18 2	25 01 08 15 22	29 05 12 19
SIII10180	Sec III - roadwork & utilities - Road Lighting, TCSS	100	26-Aug-15	23-Dec-15																