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

- DECEMBER 2014 -

CLIENTS:

Civil Engineering and Development Department

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CERTIFIED BY:

Raymond Dai

Environmental Team Leader

DATE:

12 January 2015



By Post and Fax (2691 2649)

Ref.: AACWBIECEM00_0_6132L.15

12 January 2015

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

Attention: Mr. Conrad Ng

Dear Sir,

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

Monthly Environmental Monitoring and Audit Report (December 2014) for EP-122/2002/D

Reference is made to the Environmental Team's submission of the captioned Monthly Environmental Monitoring and Audit (EM&A) Report for December 2014 received by e-mail on 12 January 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 in the captioned Environmental Permit.

Thank you very much for your kind attention and please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,

David Yeung

Independent Environmental Checker

c.c. CEDD

Mr. Jason Cheung

by fax: 2577 5040

AECOM

Mr. Francis Leong / Mr. Stephen Lai

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EXECUTIVE SUMMARY

- i. This is the Environmental Monitoring and Audit (EM&A) Monthly Report December 2014 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 December 2014. 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
 - Diaphragm wall construction works
 - Pipe pile construction
 - Removal of rock armour
 - Socket H-pile construction

Noise Monitoring

- iii. Continuous noise monitoring was conducted at ACL3 City Hall.
- iv. Limit level exceedances were recorded at ACL3 City Hall on 8, 20, 23, 27, 29, 30 and 31 December 2014 during daytime in the reporting month. After the investigation, the exceedances were concluded as not project related.
- 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 were recorded in the reporting month.
- viii. Due to interruption of electricity supply, the 24hr TSP monitoring at ACL2a was rescheduled form 13 December 2014 to 15 December 2014.
- 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 4th November, 2013.



- xi. Air Quality Monitoring at ACL2 was temporarily suspended during the period from 14th November, 2013 to 3rd December, 2013.
- xii. The Proposal for Relocation of Air Quality Monitoring Station at People's Liberation Army Headquarter (ACL2) was approved by EPD on 27 November 2013.
- xiii. 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.
- xiv. The air quality monitoring at ACL2a Contractor HK/2012/08 Site Office was commenced on 7 December 2013.

Water Quality Monitoring

- xv. 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.
- xvi. 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*.
- xvii. No action or limit level exceedance was recorded in this reporting period. 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)	S	S	D	0	S	S
	station	AL	LL	AL	LL	AL	LL	AL	LL
HK/2012/08	M5B ²	0	0	0	0	0	0	0	0
	Culvert J ¹	-	-	-	-	-	-	-	-
Total		0	0	0	0	0	0	0	0

Remarks¹: No action or limit level are not applicable to reference station Culvert J.

Remarks²: Turbidity measurement are reported as reference.

Complaints, Notifications of Summons and Successful Prosecutions

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



Site Inspections and Audit

xix. 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

xx. 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>

- Diaphragm wall construction works
- Pipe pile construction
- Removal of rock armour
- Socket H-pile construction

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 December 2014. 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 Site Inspection – 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	Central-Wanchai Bypass (CWB)	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	Reclamation works	Schedule 2, Part I, C.1
DP4	The North Island Line (NIL) Protection Works within CRIII	Schedule 2, Part I, A.7

The designated project work I (DP1) was awarded to China State-Leader Joint Venture 2.2.4. 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.

Project Organization and Contact Personnel 2.3

- 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.
- The proposed project organization and lines of communication with respect to environmental 2.3.2 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. Victor Wu	9193 8871	



Party	Role	Post	Name	Contact No.	Contact Fax
		Deputy Project Manager	Mr. Eddie Chung	9189 8118	
		Site Agent	Mr. Paul Lui	9095 7922	
		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:
 Contract no. HK/2012/08 Wan Chai Development Phase II Central- Wan Chai Bypass at Wan Chai West
 - Diaphragm wall construction works
 - Pipe pile construction
 - Removal of rock armour
 - Socket H-pile construction
- 2.3.4 In 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>
 - Diaphragm wall construction works
 - Pipe pile construction
 - Removal of rock armour
 - Socket H-pile construction



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-RS0930-14	8 Sep 2014	10 Sep 2014 to 8 Mar 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/15-079	5 Aug 2014	10 Feb 2015	Valid
Dumping Permit (Type 2- Confined Marine Disposal)	EP/MD/15-140	24 Oct 2014	10 Dec 2014	Expired
Dumping Permit (Type 2- Confined Marine Disposal)	EP/MD/15-165	2 Dec 2014	10 Jan 2015	Valid

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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Lam Geotechnics Limited

- 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.

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- 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	r 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 4.5* 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 4.5 Marine Water Quality Monitoring Frequency and Parameters

Activities	Monitoring Frequency ¹	Parameters ²
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 (December 2014)

Activities	Monitoring Frequency ¹	Parameters ²
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.



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 Figure 2.1 and Figure 4.1. 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 Limit level exceedances were recorded at ACL3 City Hall on 8, 20, 23, 27, 29, 30 and 31 December 2014 during daytime in the reporting month.
- 5.1.4 After checking with Contractor of HK/2012/08, diaphragm wall construction and socket Hpiling were conducted on 8, 20, 23, 27, 29, 30 and 31 December 2014 while chilling plant
 maintenance and upgrading works (with use of circular steel cutter) was observed on-going at
 City Hall roof top location adjacent to the noise monitoring station in the reporting month. In
 view of the above, the exceedances were considered as non-project related and contributed
 by the maintenance work by City Hall.
- 5.1.5 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 *Appendix 5.2*.

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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

- 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 Air Quality Monitoring at ACL2 was temporarily suspended during the period from 14th November, 2013 to 3rd December, 2013.
- 5.2.5 The Proposal for Relocation of Air Quality Monitoring Station at People's Liberation Army Headquarter (ACL2) was approved by EPD on 27 November 2013.
- 5.2.6 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.
- 5.2.7 The air quality monitoring at ACL2a Contractor HK/2012/08 Site Office was commenced on 7 December 2013.
- 5.2.8 No action or limit level exceedance was recorded at ACL1 City Hall and ACL2a Contractor HK/2012/08 Site Office in the reporting month.
- 5.2.9 Due to interruption of electricity supply, the 24hr TSP monitoring at ACL2a was rescheduled form 13 December 2014 to 15 December 2014.
- 5.2.10 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 Ir	Cooling Water Intakes				
M5B	Swire / Government Headquarters/ Tamar Development/ MTRCL and HSBC Headquarters				
Culverts (Refere	ence 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 No action or limit level exceedance was recorded in the reporting period.

5.3.4 Table 5.4 Summary of Water Quality Monitoring Exceedance in Reporting Month

Contract	Water quality	Mid-flood			Mid-ebb				
No.	monitoring station	D	0	S	S	D)	S	S
		AL	LL	AL	LL	AL	LL	AL	LL
1.114/0040/00	M5B ²	0	0	0	0	0	0	0	0
HK/2012/08	Culvert J ¹	-	-	-	-	-	-	-	-
Total		0	0	0	0	0	0	0	0

Remarks¹: No action or limit level are not applicable to reference station Culvert J.

Remarks²: 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	Nil 3262	396 17367	TM38 TKO137
Inert C&D materials recycled, m3	NIL	NIL	NIL
Non-inert C&D materials disposed, m3	95	645	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. Limit level exceedances were recorded at ACL3- City Hall on 8, 20, 23, 27, 29, 30 and 31 December 2014 during daytime in this reporting month. After the investigation, the exceedances were concluded as not project related.

6.2 Air Quality Monitoring

6.2.1. No action or limit level exceedance was recorded at ACL1 – City Hall and ACL2a – Contractor HK/2012/08 Site Office in this reporting month.

6.3 Water Quality Monitoring

6.3.1 No action or limit level exceedance was recorded at M5B – Central water intake in this reporting month.

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

6.4.1 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.

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

6.5.1 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 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 marine works at HKCEC areas, tunnel works and Wan Chai Ferry Pier demolition works at Wan Chai East and dredging 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 base bored pilling works at Victoria Park Road and ELS works at Victoria Park, segment launching works and tunnel works at North Point area. Marine-based construction activities were removal of temporary reclamation at TS4 and seawall construction EX-PCWA and seawall construction and filling works at TS3 at Causeway Bay Typhoon Shelter in the reporting month.
- 7.0.4. 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.

8 ENVIRONMENTAL SITE AUDIT

8.0.1. Four site inspections for Contract no. HK/2012/08 were carried out in the reporting month on 2, 9, 16 and 24 December 2014. The results of inspection and outcome are summarized in Table 8.1

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

Item	Date	Observations	Action taken by Contractor	Outcome
141209_01	9 Dec 14	Drip tray shall be provided for the oil container (Portion 1)	Oil containers taken away and disposed at Portion 1	Completion as observed on 16 December 2014

9 COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTION

- 9.0.1. No environmental complaint was received in the reporting period.
- 9.0.2. The details of cumulative complaint log and updated summary of complaints are presented in <u>Appendix 9.1</u>
- 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 – November 2014	0
December 2014	0
Total	0

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

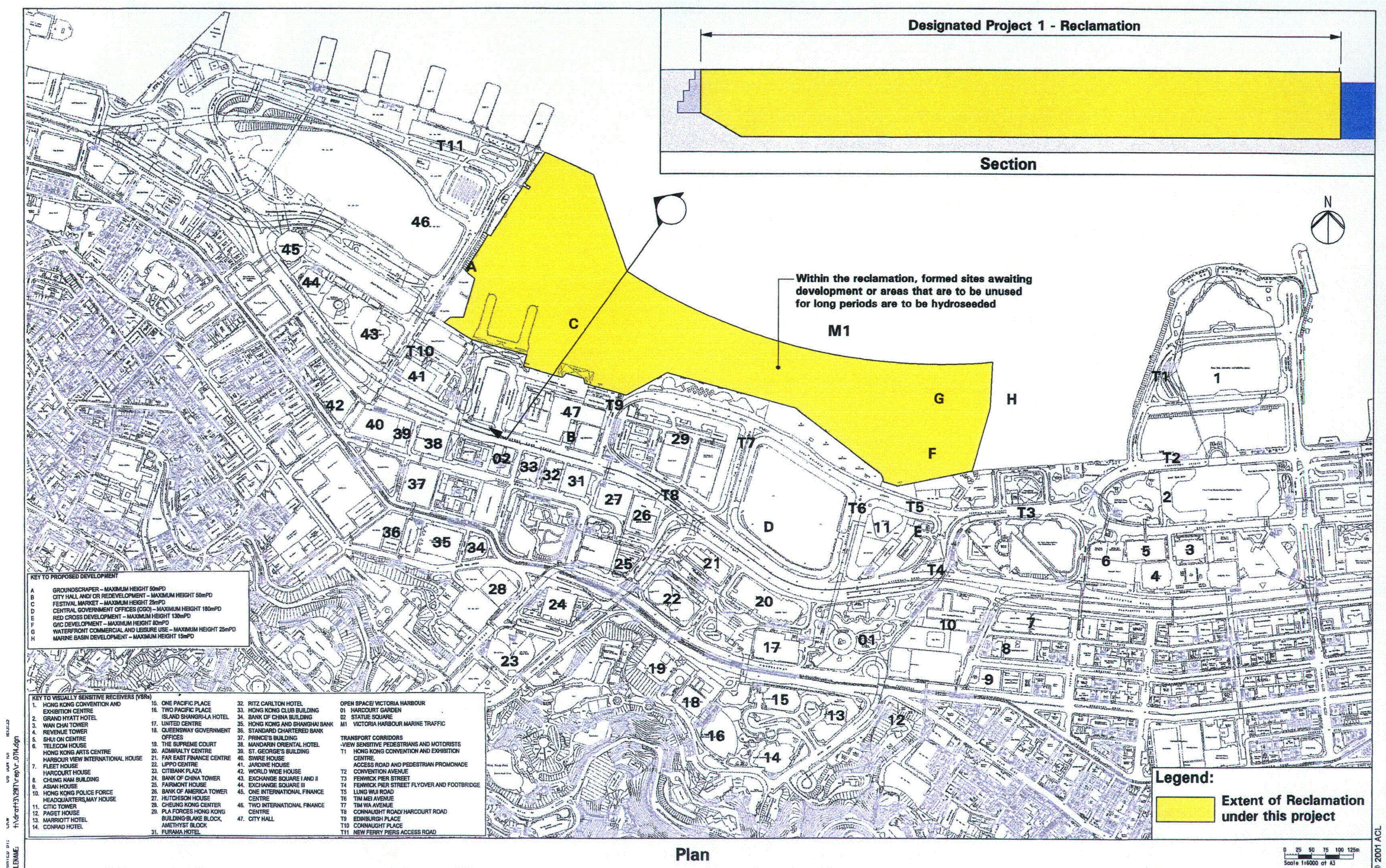
Contract	Key Construction Works	Recommended Mitigation Measures
No.		
HK/2012/08	Diaphragm wall construction	Dust control during dust generating
	works	works;
	Pipe pile construction	Implementation of proper noise
	Removal of rock armour	pollution control; and
	Socket H-pile construction	Provision of protection to ensure no
		runoff out of site area or direct
		discharge into public drainage system.

Figure 2.1

Project Layout

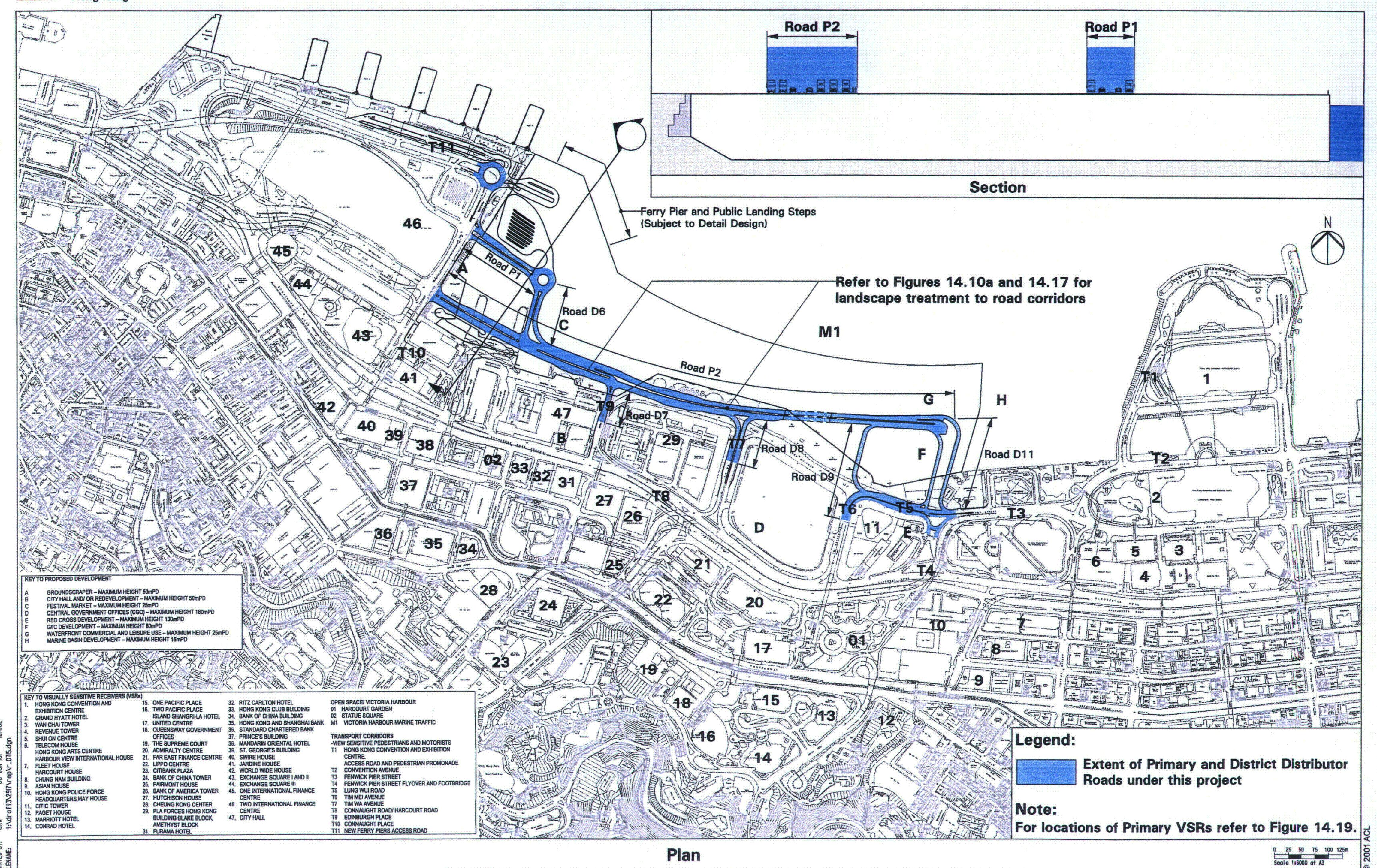
Studies, Site Investigation, Design and Construction SUPPLEMENTARY AGREEMENT NO. 2 TO AGREEMENT No. CE 15/94

英雄順 周公司 Atkins China Ltd

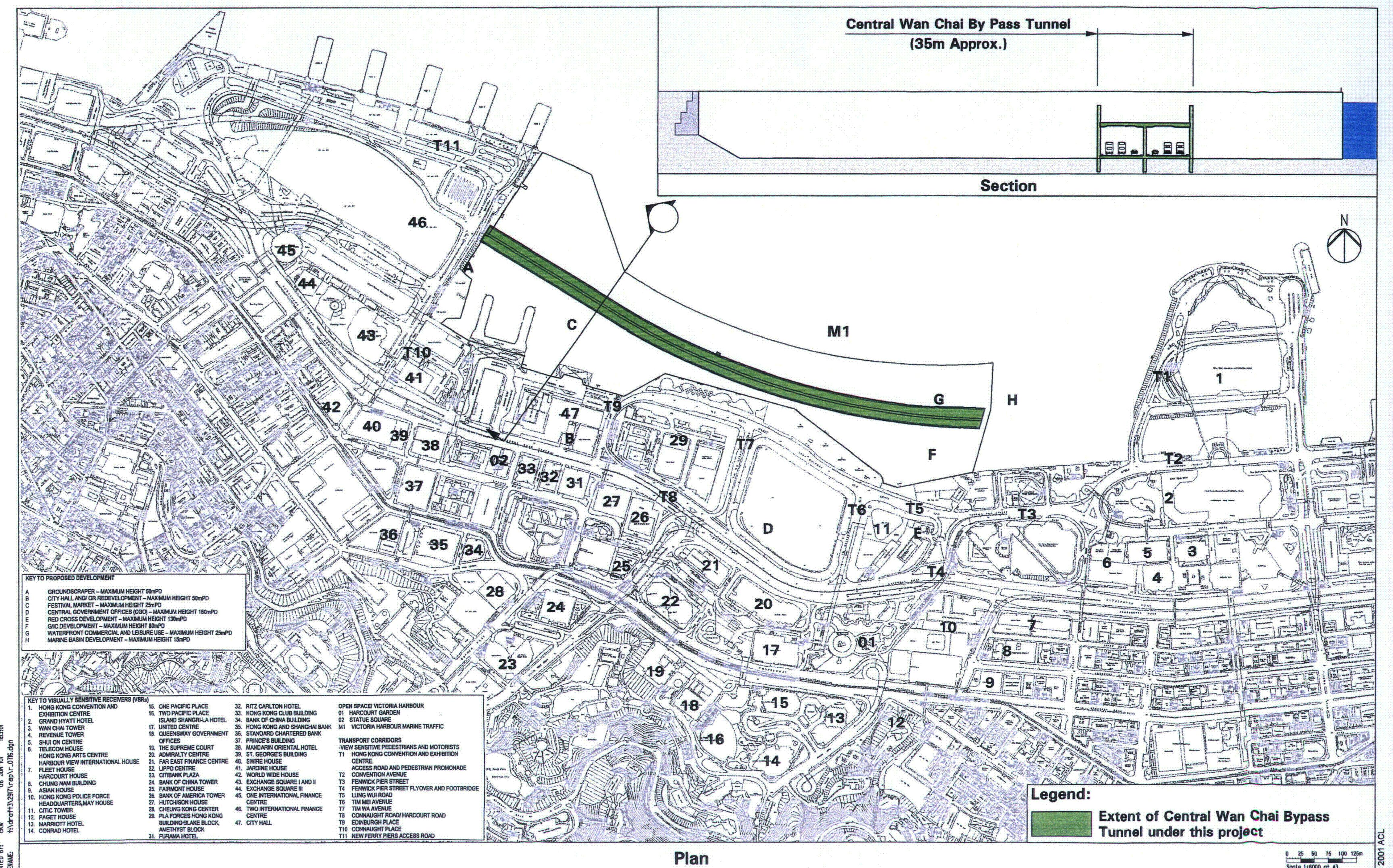


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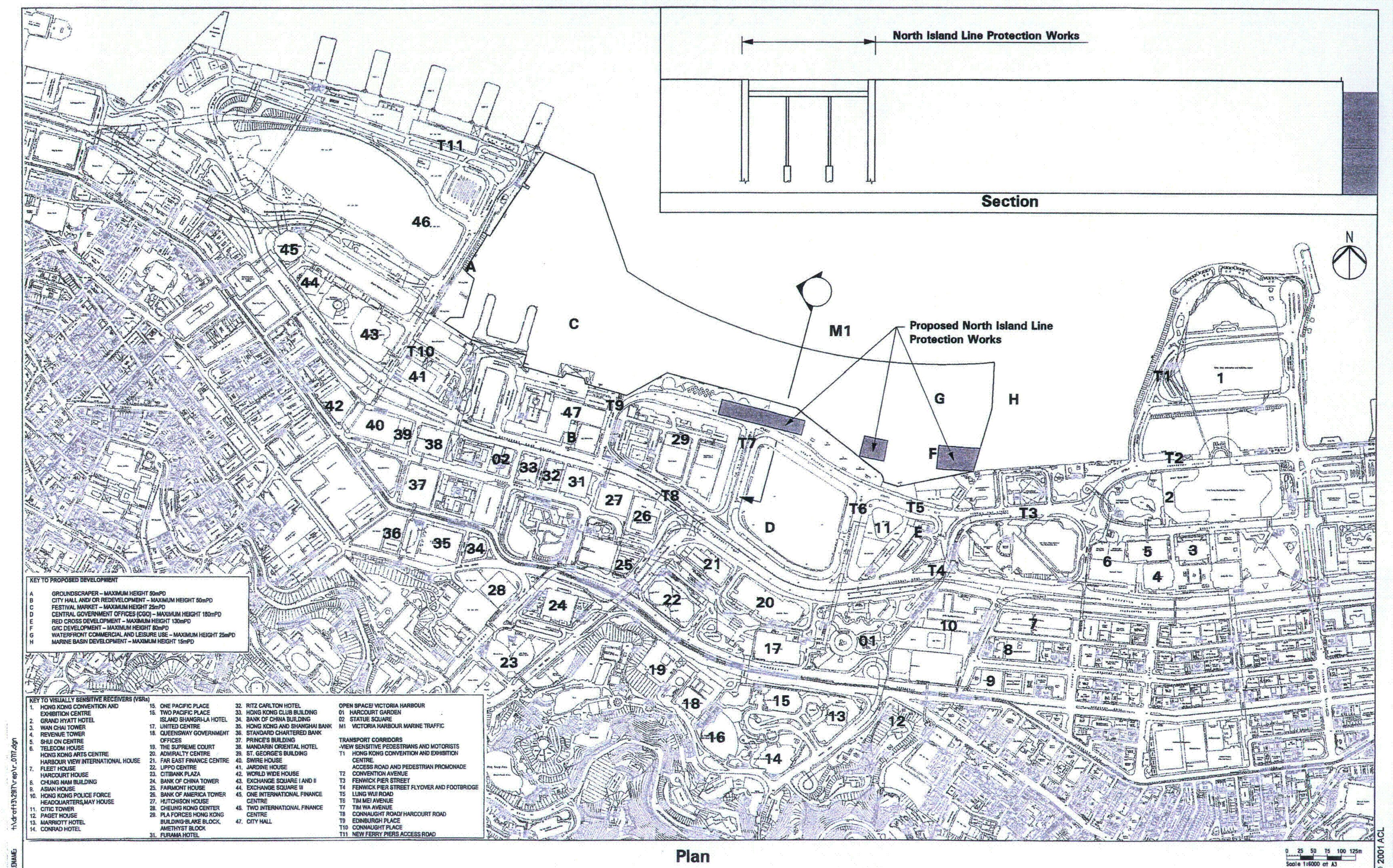


Figure 2.2

Project Organization Chart

Project Organization Chart

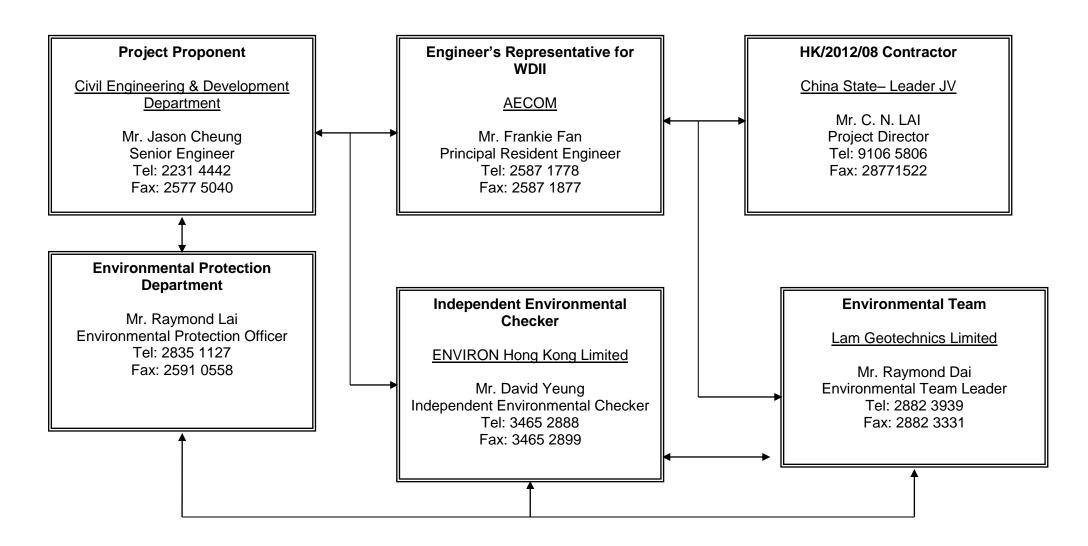
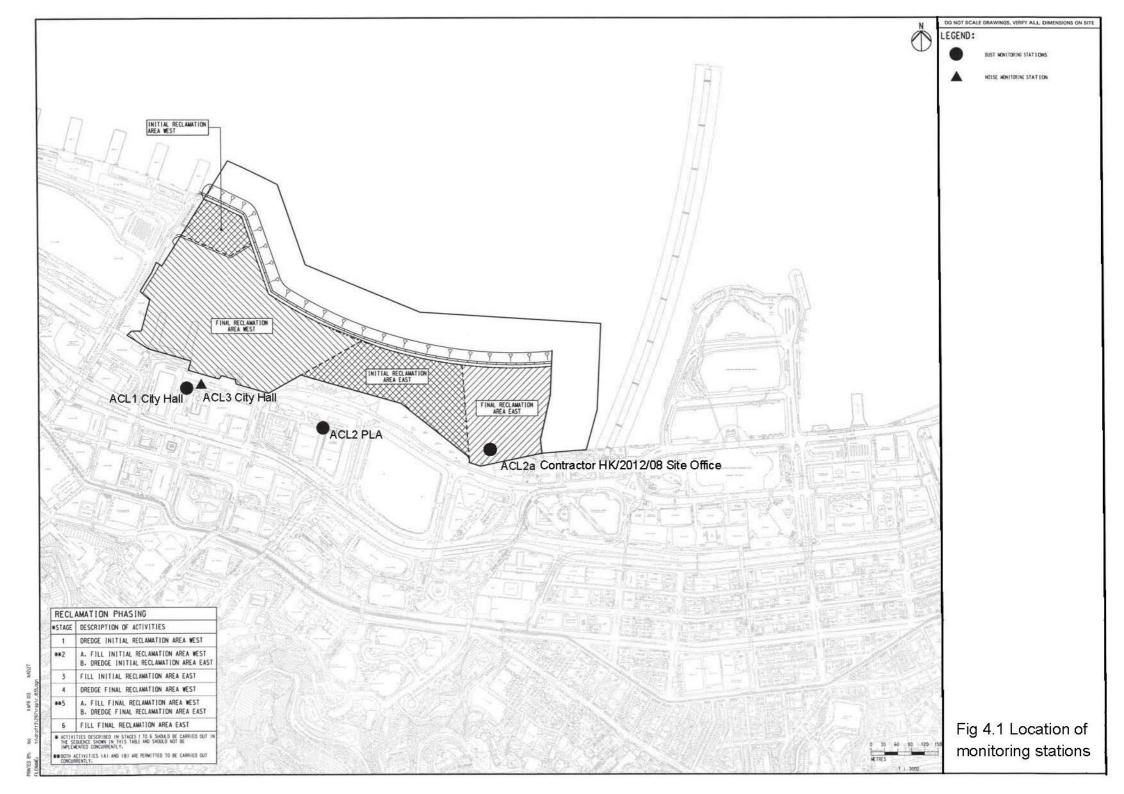
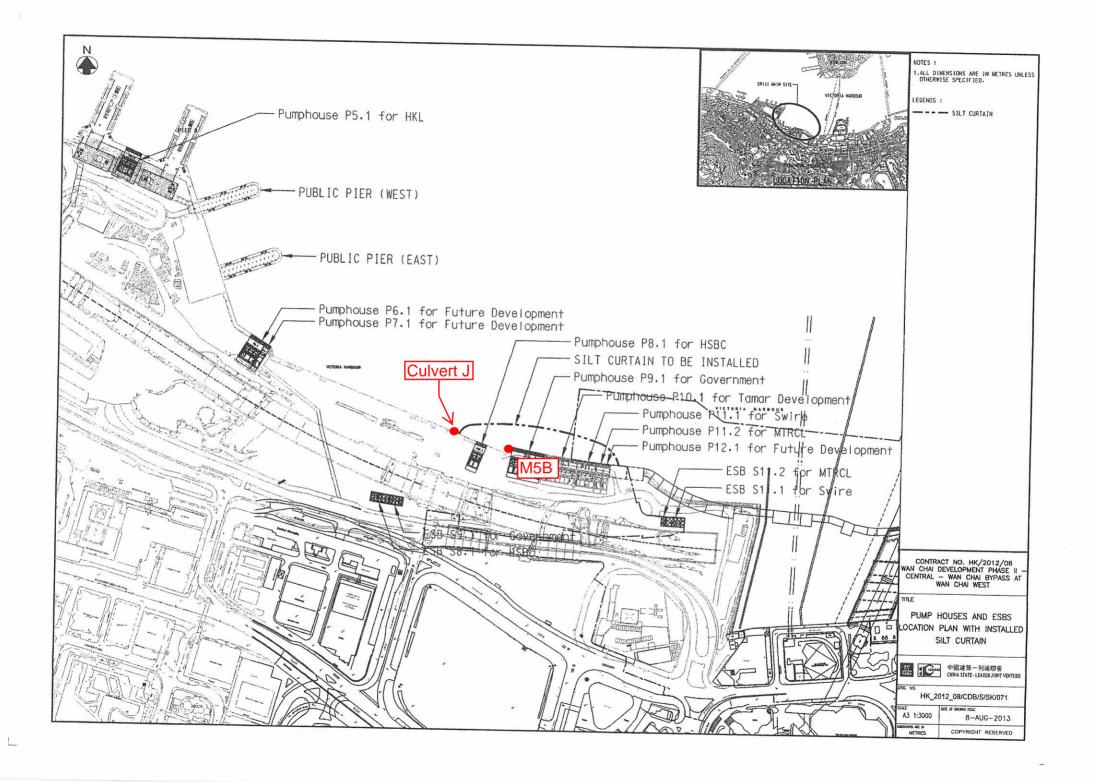


Figure 4.1

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;					
		 preservation of selected architectural features; preservation insitu of existing significant vegetation, principally the two Banyan Trees flanking the Tamar Site; 					
		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
		 existing roads upgraded to 'marry' with the proposed landscape framework; Hydroseeding of reclamation if there is no immediate use of the site, periphery of the reclamation; Designated service corridors beneath footpaths to prevent potential impacts upon vegetation during services maintenance; Sensitively designed colour themes to footpath paving areas; and Sensitively designed seawall to enhance the recreational value of the future promenade can be included. 	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
		 Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activites. 	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
7	Construction W	Specific Measures Associated with Dredging Works		End of construction			
	ater Quality Control Requirements	 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
		silt curtain around dredging sites to be provided as necessary. Specific Measure for Marine Disposal of Dredged Materials and Maine Sand Filling Works 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; all hopper barges and dredgers should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; 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	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
		 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 					
		· 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					
		 deployment of silt curtains around the dredging and fill release points to contain SS within the construction site during dredging and filling; 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. 	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
		 Boring and Drilling Water 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. Wastewater from Concrete Batching and Precast Concrete Casting 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. 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. 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. 	TDD's Contractor	Work Area During construction End of construction	С	P,R,A,C	7
		 Wheel Washing Water 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. Bentonite Slurries 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). 		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	Ι, Ιζ, Α, Ο	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	4.0
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	[a)]	y axis =	SQRT[H2O(T	Ca/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 = $1/m\{ [SQRT H2O(Ta/Pa)] - b\}$



Calibration Data for High Volume Sampler (TSP Sampler)

				•		• `	•	•
Location :		ACL1				Calbratio	on Date	: 21-Oct-14
Equipment no.		EL222				Calbratio	on Due Date	: 21-Dec-14
CALIBRATION OF CON	ITINUOUS	S FLOW RI	CORDER					
				Ambient (Condition			
Temperature, T _a		303		Kelvin	Pressure, P	a	10	D15 mmHg
			Orifice T	ransfer Sta	andard Infor	mation		
Equipment No.		EL086		Slope, m _c	1.991		Intercept, bc	-0.00041
Last Calibration Date		14-Jul-1					13.3 x 298 /	
Next Calibration Date		14-Jul-1	5		=		$Q_{std} + b_c$	· a/
				Calibratio	/ TOD		010 0	
Calibration	Mor	ameter B	anding			Continu	uous Flow	IC
Point		nometer R			t std		order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
Foliit		(down)	(difference)		/ min.) axis		CFM)	Y-axis
1	(up) 5.9	(down) 5.9	11.8		7120		60	59.5528
2	4.7	4.7	9.4		5281		52	51.6124
3	3.6	3.6	7.2		3374		48	47.6422
4	2.2	2.2	4.4		0455		40	39.7019
5	1.4	1.4	2.8		3341		31	30.7689
By Linear Regression of			2.0				<u> </u>	
,	Slope, m	=	30.9	491	Int	ercept, b =	5.8	3879
Correlation Co		=	0.99	38		• •		
Calibration	Accepted	=	Yes/ I					
* if Correlation Coefficier	nt < 0.990,	check and	recalibration	again.				
** Delete as appropriate.								
Remarks :								
-								
Calibrated less	-	lenry Lau				Checked	by	: Derek Lo
Calibrated by		21-Oct-14				Date		: 21-Oct-14
Date								



Calibration Data for High Volume Sampler (TSP Sampler)

				_		-	-
Location :		ACL1			Calbrati	on Date	: 5-Dec-14
Equipment no.		EL380			Calbrati	on Due Date	: 5-Feb-15
CALIBRATION OF CON	TINUOUS	S FLOW RI	CORDER				
				Ambient Condition			
Temperature, T _a		293		Kelvin Pressure,	P _a	1	020 mmHg
			Orifice Tr	ansfer Standard Info	rmation		
Equipment No.		EL086		Slope, m _o 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)
				0 III d 4700		- Stu - C	
0.17		. 5		Calibration of TSP	0 1	F1	10
Calibration		nometer R	-	Q _{std}		ious Flow	IC
Point		inches of	-	(m ³ / min.)		order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)			CFM)	Y-axis
1	6.5	6.5	13.0	1.8319		59	59.6977
2	5.3	5.3	10.6	1.6542		54	54.6385
3	4.1	4.1	8.2	1.4549		48	48.5676
	2.5	2.5	5.0	1.1361		38	38.4493
5 Du Linear Degraceion of	1.6	1.6	3.2	0.9090		31	31.3666
By Linear Regression of			20.0	700	-t	2	4000
Correlation Co	Slope, m		30.8		ntercept, b =		4080
Calibration		=	0.99 Yes/				
Calibration	Accepted	=	1 65/1				
* if Correlation Coefficier	nt < 0.990,	, check and	l recalibration	n again.			
** Delete as appropriate.							
Remarks :							
					O: :	11	De 11
Calibrated by		lenry Lau			Checked	a by	: Derek Lo
Date :	5	5-Dec-14			Date		: 5-Dec-14



Calibration Data for High Volume Sampler (TSP Sampler)

Location :		ACL2a	101 111	ign volume oa	Calbrati		: 21-Oct-14	
						on Due Date	: 21-Dec-14	
							-	
CALIBRATION OF CON	TINUOUS	FLOW R	CORDER					
				Ambient Condition		1		
Temperature, T _a		303		Kelvin Pressure, P	a	1	015 mmHg	
			Orifice Tr	ansfer Standard Infor	mation			
Equipment No.		EL086		Slope, m _c 1.991	75	Intercept, bc	-0.00041	
Last Calibration Date		14-Jul-1	4	(H)	(P _a / 10	13.3 x 298 /	$T_a)^{1/2}$	
Next Calibration Date		14-Jul-1	5	=	m _c x	$Q_{std} + b_c$		
				Calibration of TSP				
Calibration	Mar	nometer R	eading	Q _{std}	Contin	uous Flow	IC	
Point	Н (inches of	water)	(m ³ / min.)	Reco	order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)	
	(up)	(down)	(difference)	X-axis	(0	CFM)	Y-axis	
1	6.4	6.4	12.8	1.7831		61	60.5453	
2	5.1	5.1	10.2	1.5917		53	52.6050	
3	3.9	3.9	7.8	1.3920		48	47.6422	
4	2.5	2.5	5.0	1.1145		39	38.7093	
5	1.5	1.5	3.0	0.8633		31	30.7689	
By Linear Regression of	Y on X							
	Slope, m	=	31.6	534 Int	ercept, b =	3.3	3560	
Correlation Co	pefficient*	=	0.99	982				
Calibration	Accepted	=	Yes/	\0 **				
* if Correlation Coefficier	nt < 0.990,	check and	recalibration	again.				
** Delete as appropriate.								
Remarks :								
Calibrated by	Н	lenry Lau			Checked	d by	: Pauline Wong	
Date :	2	1-Oct-14			Date		: 21-Oct-14	



Calibration Data for High Volume Sampler (TSP Sampler)

Location :		ACL2a	101 111	ign volume oar	Calbratio	_	: 18-Dec-14
Equipment no.		EL111			Calbratio	: 18-Feb-15	
CALIBRATION OF CON	TINUOUS	FLOW RI	CORDER				
	Ī			Ambient Condition			
Temperature, T _a		287	,	Kelvin Pressure, P	a	1	026 mmHg
			Orifice Tr	ansfer Standard Infor	mation		
Equipment No.		EL086		Slope, m _c 1.991	75	Intercept, bc	-0.00041
Last Calibration Date		14-Jul-1	4	(H)	(P _a / 10	13.3 x 298 /	$T_a)^{1/2}$
Next Calibration Date		14-Jul-1	5	=	m _c x	$Q_{std} + b_c$	
				Calibration of TSP			
Calibration	Mar	nometer R	eading	Q _{std}	Contin	uous Flow	IC
Point	Н (inches of	water)	(m ³ / min.)	Reco	order, W	(W(P _a /1013.3x298/T _a) ^{1/2} /35.31)
	(up)	(down)	(difference)	X-axis	(0	CFM)	Y-axis
1	6.5	6.5	13.0	1.8563		61	62.5463
2	5.0	5.0	10.0	1.6281		54	55.3689
3	3.8	3.8	7.6	1.4194		49	50.2421
4	2.4	2.4	4.8	1.1281		36	36.9126
5	1.6	1.6	3.2	0.9211		30	30.7605
By Linear Regression of	Y on X						
	Slope, m	=	34.7	719 Int	ercept, b =	-1.	1882
Correlation Co	oefficient*	=	0.99	955			
Calibration	Accepted	=	Yes/	No**			
* if Correlation Coefficier	nt < 0.990,	check and	recalibration	again.			
** Delete as appropriate.							
Remarks :							
Calibrated by	Н	lenry Lau			Checked	i by	: Derek Lo
Date	1	8-Dec-14			Date		: 18-Dec-14



綜 合 試 驗 有 限 公 司 SOILS & MATERIALS ENGINEERING CO., LTD.

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



CERTIFICATE OF CALIBRATION

Certificate No.:

14CA0303 02

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of

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Item tested

Description:

Sound Level Meter (Type 1)

Microphone

Manufacturer:

Larson Davis

Type/Model No.:

831

377B02

Serial/Equipment No.:

0003227

SNLW135892

Adaptors used:

Item submitted by

Customer Name:

Lam Geotechnics Ltd.

Address of Customer:

Request No.: Date of receipt:

03-Mar-2014

Date of test:

04-Mar-2014

Reference equipment used in the calibration

Description:

Model:

Serial No.

Expiry Date:

Traceable to:

Multi function sound calibrator

B&K 4226

2288444

22-Jun-2014

CIGISMEC

Signal generator Signal generator

DS 360 DS 360 33873 61227 15-Apr-2014 15-Apr-2014 **CEPRE1 CEPREI**

Ambient conditions

Temperature: Air pressure:

22 ± 1 °C

Relative humidity:

60 ± 10 % 1000 ± 10 hPa

Test specifications

The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 1, and the lab calibration procedure SMTP004-CA-152.

The electrical tests were performed using an electrical signal substituted for the microphone which was removed and 2, replaced by an equivalent capacitance within a tolerance of +20%.

The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference 3, 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.

Actual Measurement data are documented on worksheets.

Approved Signatory:

lin/Feng Jun Qi

Date:

04-Mar-2014

Company Chop:

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.

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



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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 I	No.:
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14CA0303 02

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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
Calf generated noise	Α	Pass	0.3	
Self-generated noise	Ĉ	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	
Linearity range for Led	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	
Troquerie, neighbors	С	Pass	0.3	
	Lin	Pass	0.3	
Time weightings	Single Burst Fast	Pass	0.3	
5 5	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	
ų -	Repeated at frequency of 100 Hz	Pass	0.3	
Time averaging	1 ms burst duty factor 1/10 ³ at 4kHz	Pass	0.3	
· · · · · · · · · · · · · · · · · · ·	1 ms burst duty factor 1/10 ⁴ 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	
<u> </u>	Leg	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)	Factor
Acoustic response	Weighting A at 125 Hz	Pass	0.3	
Acoustic response	Weighting A at 8000 Hz	Pass	0.5	

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:

Date:

 \sim

Fung Chi Yip \ 04-Mar-2014 - Ena -

Checked by:

Date:

Lam Tze Wai 04-Mar-2014

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 CARP152-2/Issue 1/Rev.C/01/02/2007



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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.:

14CA0529 01-02

Page:

of

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to:

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer: Type/Model No .: Rion Co., Ltd. NC-73

Serial/Equipment No.:

10465798

Adaptors used:

Item submitted by

Curstomer:

Lam Geotechnics Limited

Address of Customer:

Request No : Date of receipt:

29-May-2014

Date of test:

30-May-2014

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable
Lab standard microphone	B&K 4180	2412857	13-May-2015	SCL
Preamplifier	B&K 2673	2239857	10-Apr-2015	CEPREI
Measuring amplifier	B&K 2610	2346941	08-Apr-2015	CEPREI
Signal generator	DS 360	61227	09-Apr-2015	CEPREI
Digital multi-meter	34401A	US36087050	17-Dec-2014	CEPREI
Audio analyzer	8903B	GB41300350	07-Apr-2015	CEPREI
Universal counter	53132A	MY40003662	11-Apr-2015	CEPREI

Ambient conditions

Temperature:

22 ± 1 °C

Relative humidity:

60 ± 10 %

Air pressure: 1000 ± 10 hPa

Test specifications

- 1, 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.
- The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference 3, pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

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

Huang Jian Min/Feng Jun Qi

Approved Signatory:

Date:

30-May-2014

Company Chop:

Comments: The results reported in his 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



綜合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

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.:

14CA0529 01-02

Page:

2

of

2

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.

			(Output level in dB re 20 µPa
Frequency Shown Hz	Output Sound Pressure Level Setting dB	Measured Output Sound Pressure Level dB	Estimated Expanded Uncertainty dB
1000	94.00	94.57	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 = 0.001 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 = 965.6 Hz

Estimated expanded uncertainty

0.1 Hz

Coverage factor k = 2.2

4, Total Noise and Distortion

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 = 0.9 %

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:

End

Date:

Fung Chi Yip 30-May-2014 Checked by:

Date:

Lam Tze Wai 30-May-2014

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.

© Soils & Materials Engineering Co., Ltd.

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



Information supplied by customer:

CONTACT:

DEREK LO

WORK ORDER: HK1410350

CLIENT:

LAM GEOTECHNICS LIMITED

DATE RECEIVED: 2014-11-25 **DATE OF ISSUE: 2014-12-02**

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	\$80 80 E00 W
Equipment No.:		
Date of Calibration:	25-Nov-14	

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

Euvan



WORK ORDER: HK1410350 **DATE OF ISSUE:** 2014-12-02

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203010	
Equipment No.:		
Date of Calibration:	25-Nov-14	
Date of next Calibation:	25-Feb-15	

Parameters: Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	
0	0.00		
4	3.86	-3.5	
10	10.2	2.0	
40	39.1	-2.3	
100	104	4.0	
400	412	3.0	
1000	994	-0.6	
	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: DEREK LO WORK ORDER: HK1410310

CLIENT: LAM GEOTECHNICS LIMITED

DATE RECEIVED: 9/10/2014 DATE OF ISSUE: 16/10/2014

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.:	1203008	
Equipment No.:		
Date of Calibration:	09-Oct-14	

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: HK1410310 **DATE OF ISSUE:** 16/10/2014

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203008	
Equipment No.:		- Walliam
Date of Calibration:	09-Oct-14	
Date of next Calibation:	09-Jan-15	- 278816) <u>L</u>

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	22.5
0	0.00		
4	4.13	3.3	
10	10.3	3.0	
40	39.8	-0.5	
100	101	1.0	
400	380	-5.0	
1000	980	-2.0	
	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:

DEREK LO

WORK ORDER: HK1410311

CLIENT:

LAM GEOTECHNICS LIMITED

DATE RECEIVED: 9/10/2014 **DATE OF ISSUE: 16/10/2014**

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:	09-Oct-14	

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

Teman



WORK ORDER: HK1410311 **DATE OF ISSUE:** 16/10/2014

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type:	Turbidimeter	
Brand Name:	Xin Rui	
Model No.:	WGZ-3B	
Serial No.:	1203015	
Equipment No.:		
Date of Calibration:	09-Oct-14	
Date of next Calibation:	09-Jan-15	20101

Parameters:

Turbidity

Method Ref: APHA 22nd ed. 2130B

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	
0	0.00		
4	3.90	-2.5	
10	10.2	2.0	
40	39.3	-1.8	
100	103	3.0	
400	388	-3.0	
1000	986	-1.4	
	Tolerance Limit (±%)	10.0	

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



ALS Technichem (HK) Ptv Ltd 11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street Kwai Chung, N.T., Hong Kong

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REPORT OF EOUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

MR ALAN LI

CLIENT:

LAM GEOTECHNICS LIMITED

ADDRESS:

11/F., CENTRE POINT,

181-185 GLOUCESTER ROAD. WAN CHAI, HONG KONG

WORK ORDER:

HK1436509

LABORATORY: DATE RECEIVED: HONG KONG

10/11/2014

DATE OF ISSUE:

17/11/2014

COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the ALS Hong Kong laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principals as practised by the ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test:

Dissolved Oxygen, pH, Salinity and Temperature

Equipment Type:

Multifunctional Meter

Brand Name:

YSI

Model No.:

Professional Plus 11F100597

Serial No.: Equipment No.:

Date of Calibration: 17 November, 2014

NOTES

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

Mr. Fung Lim Chee, Richard

General Manager

Greater China & Hong Kong

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Work Order:

HK1436509

Date of Issue:

17/11/2014

Client:

LAM GEOTECHNICS LIMITED

Equipment Type:

Multifunctional Meter

Brand Name:

YSI

Model No.:

Professional Plus

Serial No.:

11F100597

Equipment No.:

--

Date of Calibration:

17 November, 2014

Date of next Calibration:

17 February, 2015

Parameters:

Dissolved Oxygen

Method Ref: APHA (21st edition), 45000: G

Mccinoa Mcii / M Tir (E 15t caiti	Method Ren / R Th (E 150 cartion), 150001 C			
Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)		
3.60	3.57	-0.03		
6.24	6.20	-0.04		
8.06	8.03	-0.03		
		=		
	Tolerance Limit (mg/L)	±0.20		

pH Value

Method Ref: APHA (21st edition), 4500H:B

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
		1 20
4.0	4.09	+0.09
7.0	7.19	+0.19
10.0	10.02	+0.02
	Tolerance Limit (pH unit)	±0.20

Salinity

Method Ref: APHA (21st edition), 2520B

Method Reli / Int (215t edit	1011/, 23202	
Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.00	ee:
10	9.57	-4.3
20	19.70	-1.5
30	29.86	-0.5
,	Tolerance Limit (%)	±10.0

Temperature

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

 Expected Reading (°C)
 Displayed Reading (°C)
 Tolerance (°C)

 11.0
 11.4
 +0.4

 21.5
 21.9
 +0.4

 38.0
 38.3
 +0.3

Tolerance Limit (°C)

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

Mr. Fung Lim Chee, Richard

General Manager/

Greater China & Hong Kong

±2.0



ALS Technichem (HK) Ptv Ltd 11/F, Chung Shun Knitting Centre 1-3 Wing Yip Street

Kwai Chung, N.T., Hong Kong

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

MR ALAN LI

CLIENT:

LAM ENVIRONMENTAL SERVICES LTD

ADDRESS:

11/F., CENTRE POINT.

181-185 GLOUCESTER ROAD,

WAN CHAI, HONG KONG

WORK ORDER:

HK1435131

LABORATORY: DATE RECEIVED: HONG KONG

29/10/2014

DATE OF ISSUE:

05/11/2014

COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the ALS Hong Kong laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principals as practised by the ALS Hong Kong laboratory or quoted from relevant international standards.

Scope of Test:

Dissolved Oxygen, pH, Salinity and Temperature

Equipment Type:

Multifunctional Meter

Brand Name:

YSI

Model No.:

Professional Plus 14E100105

Serial No.: Equipment No.:

Date of Calibration: 31 October, 2014

NOTES

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

> Mr. Fung Lim Chee, Richard General Manager -

> Greater China & Hong Kong

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order:

HK1435131

Date of Issue:

05/11/2014

Client:

LAM ENVIRONMENTAL SERVICES LTD



Equipment Type:

Multifunctional Meter

Brand Name:

YSI

Model No.:

Professional Plus

Serial No.:

14E100105

Equipment No.:

Date of Calibration:

31 October, 2014

Date of next Calibration:

31 January, 2015

Parameters:

Dissolved Oxygen

Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.46	2.58	+0.12
5.04	4.91	-0.13
8.02	7.92	-0.10
	Tolerance Limit (mg/L)	±0.20

pH Value

Method Ref: APHA (21st edition), 4500H:B

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
		8 B =
4.0	3.98	-0.02
7.0	6.98	-0.02
10.0	10.05	+0.05
		22
	Tolerance Limit (pH unit)	±0.20

Salinity

Method Ref: APHA (21st edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)		
0	0.00			
10	9.58	-4.2		
20	19.48	-2.6		
30	30.32	+1.1		
	Tolerance Limit (%)	±10.0		

Temperature

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

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
13.4	13.7	+0.3
23.8	24.0	+0.2
33.8	33.6	-0.2
	Tolerance Limit (°C)	±2.0

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

Mr. Fung Lim Chee, Richard

General Manager /

Greater China & Hong Kong



EQUIPMENT PERFORMANCE CHECK / CALIBRATION REPORT

Report No.

: HK1410306

Project Name

: EQUIPMENT PERFORMANCE CHECK/CALIBRATION REPORT

Date of Issue

: 16/10/2014

Customer Address : LAM GEOTECHNICS LIMITED

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

Calibration Job No. Test Item No. : HK1410306

Test Item Details

: HK1410306-01

Test Item Description

: Multifunctional Meter

Manufacturer Model No. YSI 600XL

Serial No. Test Item Receipt Date : 05C1607 : 13-Oct-14

Test Period

: 14/10/2014 - 15/10/2014

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. \pm 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, salinity, pH and temperature performance check was subcontracted to FT Laboratories Ltd.

Approved Signatory

Peter Lee (Director)

Issue Date:

16/10/2014



REPORT OF EQUIPMENT PERFORMANCE CHECK

WORK ORDER: HK1410306 16/10/2014 DATE OF ISSUE:

CLIENT: LAM GEOTECHNICS LIMITED

Equipment Type	Multifunctional Meter				
Manufacturer	YSI				
Model No.	YSI 600XL				
Serial No.	05C1607				
Date of Calibration	14-Oct-14				
Date of next Calibation	14-Jan-15				

Parameters:

Temperature (Method Ref: APHA 19e 2550B)

Tomporatare (motin	ou iton for include	,0	
Reference Reading	Tempeature corretted	Display Reading (°C)	Deviation (°C)
(°C)	of Thermometer (°C)	Display Reading (C)	Deviation (C)
10.21	10.37	10.33	-0.04
19.97	20.13	20.12	-0.01
30.02	30.18	30.16	-0.02
		Tolerance Limit	±0.50

H Value (Method Ref: APHA 10e 4500-H. R)

	tel: APHA 196 4000-H,		
Expected Reading	pH unit of buffer at 20	Display Reading at 20 °C	Deviation (pH unit)
(pH unit)	°C (pH unit)	(pH unit)	Deviation (pri unit)
6.0	6.01	5.89	-0.12
9.0	9.02	8.85	-0.17
		Tolerance Limit	±0.20

Conductivity (Method Ref: APHA 19e 2520B)

KCl concentreation	Standard conductivity	Reading of SpCond	Doviction (9/)
(mol/L)	(ms/cm) at 25°C)	(ms/cm)	Deviation (%)
0.0000	0.00	0.00	
0.1000	12.89	12.82	-0.54
0.2000	24.8	24.78	-0.08
0.5000	58.67	58.43	-0.41
		Tolerance Limit	±2.0

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

DO of water sample (mg/L)	DO reading od DO probe (mg/L)	Deviation (mg/L)
4.15	3.98	-0.17
6.24	6.14	-0.10
8.16	8.15	-0.01
	Tolerance Limit	±0.20

Remarks:

- (1) Maxium tolerance ans calibration frequency stated in the reprot, unless otherewisestated, 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

Contract No. HK/2011/07

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

					De	tal Monitorin ecember 2014	4				
Sunday	Monday		Tuesday		Wedneso		Thursday	Frida		Saturday	
		1-Dec	2	2-Dec		3-Dec	4-Dec		5-Dec	1	6-D
			24hr TSP		1hr TSP						
	Impact WQM				Impact WQM			Impact WQM			
	Mid-flood	14:21			Mid-ebb	9:40		Mid-ebb	11:26		
	Mid-ebb	20:49			Mid-flood	15:50		Mid-flood	17:06		
7-Dec		8-Dec	9	-Dec		10-Dec	11-Dec		12-Dec	1.	13-D
	24hr TSP		1hr TSP						24hr	TSP	
	Impact WQM				Impact WQM			Impact WQM			
	Mid-ebb	1:08			Mid-ebb	2:20		Mid-ebb	2:54 10:58		
14-Dec	Mid-flood	8:07 15-Dec	40	S-Dec	Mid-flood	9:30 17-Dec	18-Dec	Mid-flood	10:58 19-Dec	0	20-D
	24hr TSP (ACL2a) 1hr TSP							24hr TSP	1hr T	TSP	
	Impact WQM				Impact WQM			Impact WQM			
	Mid-ebb	4:57			Mid-flood	14:32		Mid-flood	15:46		
	Mid-flood	13:22			Mid-ebb	21:43		Mid-ebb	22:44		_
21-Dec		22-Dec	23	3-Dec		24-Dec	25-Dec		26-Dec	2	27-D
			24hr TSP		1hr TSP						
	Impact WQM				Impact WQM			Impact WQM			
	Mid-ebb	0:00			Mid-ebb	1:28		Mid-ebb	2:59		
	Mid-flood	7:06			Mid-flood	8:34		Mid-flood	10:08		
28-Dec		29-Dec	30)-Dec		31-Dec					
	24hr TSP		1hr TSP								
	Impact WQM				Impact WQM						
	Mid-ebb	5:41			Mid-flood	14:24					
	Mid-flood	12:40	1		Mid-ebb	21:29		1			

Contract No. HK/2011/07 Wan Chai Development Phase II and Central-Wan Chai Bypass

Sampling, Field Measurement and Testing Works (Stage 2)

Tentive Environmental Monitoring Schedule January 2015

			January 2			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Jan	2-Jan	3-Jan
				l		
						24hr TSP
						I
						Impact WQM Mid-flood 16:41
					ı	
						Mid-ebb 23:43
4-Jan	5-Jan	6-Jan	7-Jan	8-Jan		10-Jan
					Disney	
	1hr TSP				24hr TSP	1hr TSP
	Noise (Daytime)	Noise (Daytime)				
	rioloo (Baytimo)	rtoloo (Bayanio)				
		Impact WQM		Impact WQM		Impact WQM
			l _l		t	
		Mid-ebb 0:55		Mid-ebb 1:59		Mid-ebb 2:50
		Mid-flood 7:53		Mid-flood 8:53		Mid-flood 9:56
11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan	17-Jan
		1				
				24hr TSP	1hr TSP	
	Noise (Daytime)	Noise (Daytime)				
	rioloo (Baytimo)	rtoloo (Bayanio)				
	Impact WQM		Impact WQM		Impact WQM	
		ł d				
I	Mid-ebb 3:36	4	Mid-flood 12:39		Mid-flood 14:16	
	Mid-flood 11:15		Mid-ebb 19:32		Mid-ebb 21:46	
18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan	24-Jan
			24hr TSP	1hr TSP		
	Noise (Daytime)	Noise (Daytime)	2 101			
	(50)					
	Impost WOM	1	Impact MOM		Import WOM	
	Impact WQM		Impact WQM		Impact WQM	
	Mid-flood 16:49		Mid-ebb 13:07		Mid-flood 8:52	
	Mid-ebb 23:47		Mid-flood 18:33		Mid-ebb 14:38	
25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan
		1			1	
		24hr TSP	1hr TSP			
	Noise (Daytime)	Noise (Daytime)				
	ivoise (Dayune)	rvoise (Dayune)				
	Impact WQM		Impact WQM		Impact WQM	
	Mid-flood 11:05		Mid-flood 12:43	<u> </u>	Mid-flood 14:33	
	Mid-ebb 17:20		Mid-ebb 20:01		Mid-ebb 22:11	

Appendix 5.2

Continuous Noise Monitoring Results and Graphical Presentations

Continuous Nois	se Monitoring I	Data ACL3 5/12/14 12:01	(City Hall) 58.0	10/12/14 18:31 64.1	16/12/14 13:01 6	60.6 22/12/14 7:31	60.9	29/12/14 14:01 75.4
Normal Day 07:	00-19:00	5/12/14 12:31 5/12/14 13:01	63.9 63.8	11/12/14 7:01 63.9 11/12/14 7:31 64.0		62.1 22/12/14 8:01 62.6 22/12/14 8:31	61.5 62.8	29/12/14 14:31 65.3 29/12/14 15:01 66.7
1/12/14 7:01	60.0	5/12/14 13:01 5/12/14 13:31	54.0	11/12/14 7:31 64.0 11/12/14 8:01 58.0		62.6 22/12/14 8:31 63.5 22/12/14 9:01	62.6	29/12/14 15:01 66.7
1/12/14 7:31	64.0	5/12/14 14:01	63.8	11/12/14 8:31 40.4		63.3 22/12/14 9:31	64.3	29/12/14 16:01 65.7
1/12/14 8:01 1/12/14 8:31	64.3 64.0	5/12/14 14:31 5/12/14 15:01	63.3 63.7	11/12/14 9:01 58.4 11/12/14 9:31 60.7		63.1 22/12/14 10:01 63.3 22/12/14 10:31		29/12/14 16:31 67.0 29/12/14 17:01 71.9
1/12/14 9:01	64.3	5/12/14 15:31	63.8	11/12/14 10:01 64.3	16/12/14 16:31 6	63.3 22/12/14 11:01	62.0	29/12/14 17:31 58.7
1/12/14 9:31 1/12/14 10:01	59.1 63.2	5/12/14 16:01 5/12/14 16:31	63.3 63.6	11/12/14 10:31 55.6 11/12/14 11:01 44.2		62.9 22/12/14 11:31 62.3 22/12/14 12:01		29/12/14 18:01 60.2 29/12/14 18:31 61.4
1/12/14 10:31	64.0	5/12/14 17:01	64.4	11/12/14 11:31 63.9	16/12/14 18:01 6	62.3 22/12/14 12:31	62.5	30/12/14 7:01 59.9
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1/12/14 12:01	64.1	5/12/14 18:31	63.6	11/12/14 13:01 64.2	17/12/14 7:31 5	55.9 22/12/14 14:01	63.2	30/12/14 8:31 63.0
1/12/14 12:31 1/12/14 13:01	52.4 63.8	6/12/14 7:01 6/12/14 7:31	64.0 51.8	11/12/14 13:31 64.3 11/12/14 14:01 57.0		54.2 22/12/14 14:31 54.2 22/12/14 15:01		30/12/14 9:01 67.4 30/12/14 9:31 71.6
1/12/14 13:31	64.3	6/12/14 8:01	49.5	11/12/14 14:31 63.9	17/12/14 9:01 5	54.9 22/12/14 15:31	63.2	30/12/14 10:01 71.6
1/12/14 14:01 1/12/14 14:31	44.3 63.8	6/12/14 8:31 6/12/14 9:01	52.3 64.2	11/12/14 15:01 51.8 11/12/14 15:31 64.1		54.6 22/12/14 16:01 54.6 22/12/14 16:31		30/12/14 10:31 75.3 30/12/14 11:01 68.0
1/12/14 15:01	63.3	6/12/14 9:31	64.3	11/12/14 16:01 64.0	17/12/14 10:31 5	54.6 22/12/14 17:01	62.3	30/12/14 11:31 63.6
1/12/14 15:31 1/12/14 16:01	63.9 63.2	6/12/14 10:01 6/12/14 10:31	64.3 64.1	11/12/14 16:31 45.6 11/12/14 17:01 64.1		54.5 22/12/14 17:31 55.1 22/12/14 18:01		30/12/14 12:01 64.6 30/12/14 12:31 63.5
1/12/14 16:31	63.9	6/12/14 11:01	60.8	11/12/14 17:31 64.0	17/12/14 12:01 5	56.3 22/12/14 18:31	62.8	30/12/14 13:01 63.5
1/12/14 17:01 1/12/14 17:31	63.7 63.3	6/12/14 11:31 6/12/14 12:01	64.3 62.4	11/12/14 18:01 63.6 11/12/14 18:31 63.7		56.5 23/12/14 7:01 58.9 23/12/14 7:31	59.4 61.2	30/12/14 13:31 72.4 30/12/14 14:01 52.8
1/12/14 18:01	63.4	6/12/14 12:31	63.3	12/12/14 7:01 60.4	17/12/14 13:31 6	61.2 23/12/14 8:01	62.0	30/12/14 14:31 70.4
1/12/14 18:31 2/12/14 7:01	62.6 64.2	6/12/14 13:01 6/12/14 13:31	63.8 63.7	12/12/14 7:31 61.8 12/12/14 8:01 62.7		61.5 23/12/14 8:31 61.9 23/12/14 9:01	62.4 62.8	30/12/14 15:01 69.2 30/12/14 15:31 58.3
2/12/14 7:31	57.6	6/12/14 14:01	64.2	12/12/14 8:31 63.5	17/12/14 15:01 6	61.5 23/12/14 9:31	60.8	30/12/14 16:01 72.2
2/12/14 8:01 2/12/14 8:31	64.1 50.1	6/12/14 14:31 6/12/14 15:01	55.5 63.6	12/12/14 9:01 63.2 12/12/14 9:31 62.5		62.3 23/12/14 10:01 68.4 23/12/14 10:31		30/12/14 16:31 72.5 30/12/14 17:01 72.4
2/12/14 9:01	56.7	6/12/14 15:31	63.2	12/12/14 10:01 62.7		62.0 23/12/14 11:01		30/12/14 17:31 59.6
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2/12/14 10:31	51.7	6/12/14 17:01	63.0	12/12/14 11:31 62.9		60.2 23/12/14 12:31		31/12/14 7:01 59.7
2/12/14 11:01 2/12/14 11:31	64.0 63.4	6/12/14 17:31 6/12/14 18:01	63.1 62.9	12/12/14 12:01 62.5 12/12/14 12:31 64.0		60.8 23/12/14 13:01 56.5 23/12/14 13:31		31/12/14 7:31 61.3 31/12/14 8:01 62.0
2/12/14 11:31	63.3	6/12/14 18:31	63.0	12/12/14 13:01 63.0		55.8 23/12/14 14:01		31/12/14 8:31 62.8
2/12/14 12:31 2/12/14 13:01	64.0 50.6	8/12/14 7:01 8/12/14 7:31	48.3 64.2	12/12/14 13:31 63.8 12/12/14 14:01 63.5		55.5 23/12/14 14:31 55.4 23/12/14 15:01		31/12/14 9:01 62.8 31/12/14 9:31 62.8
2/12/14 13:31	64.3	8/12/14 8:01	70.1	12/12/14 14:31 63.6		56.5 23/12/14 15:31		31/12/14 10:01 60.3
2/12/14 14:01 2/12/14 14:31	63.5 63.6	8/12/14 8:31 8/12/14 9:01	56.1	12/12/14 15:01 63.1 12/12/14 15:31 62.6		55.0 23/12/14 16:01 54.2 23/12/14 16:31		31/12/14 10:31 63.2 31/12/14 11:01 65.0
2/12/14 14:31	63.1	8/12/14 9:31	53.3 64.4	12/12/14 15:31 62.6		54.2 23/12/14 17:01		31/12/14 11:31 63.4
2/12/14 15:31	62.6 62.7	8/12/14 10:01 8/12/14 10:31	64.4 64.6	12/12/14 16:31 63.5 12/12/14 17:01 63.3		55.2 23/12/14 17:31 55.6 23/12/14 18:01		31/12/14 12:01 47.6 31/12/14 12:31 64.0
2/12/14 16:01 2/12/14 16:31	63.5	8/12/14 10:31	64.0	12/12/14 17:01 63.3		57.1 23/12/14 18:31		31/12/14 12:31 64:0
2/12/14 17:01	63.3 62.9	8/12/14 11:31	64.3 64.1	12/12/14 18:01 64.0 12/12/14 18:31 63.0		57.4 24/12/14 7:01 59.4 24/12/14 7:31	59.3 61.4	31/12/14 13:31 66.6 31/12/14 14:01 72.1
2/12/14 17:31 2/12/14 18:01	64.0	8/12/14 12:01 8/12/14 12:31	52.4	12/12/14 18:31 63.0 13/12/14 7:01 64.1		59.4 24/12/14 7:31 60.6 24/12/14 8:01	58.4	31/12/14 14:01 72.1 31/12/14 14:31 68.3
2/12/14 18:31	63.0 64.1	8/12/14 13:01	63.8	13/12/14 7:31 63.7		62.0 24/12/14 8:31	62.7	31/12/14 15:01 70.3 31/12/14 15:31 63.4
3/12/14 7:01 3/12/14 7:31	64.3	8/12/14 13:31 8/12/14 14:01	64.3 44.3	13/12/14 8:01 62.8 13/12/14 8:31 61.8		62.1 24/12/14 9:01 62.5 24/12/14 9:31	63.6 63.0	31/12/14 15:31 63.4 31/12/14 16:01 59.0
3/12/14 8:01	61.9	8/12/14 14:31	63.8	13/12/14 9:01 61.0		66.3 24/12/14 10:01		31/12/14 16:31 61.8
3/12/14 8:31 3/12/14 9:01	64.3 51.7	8/12/14 15:01 8/12/14 15:31	63.3 63.9	13/12/14 9:31 61.3 13/12/14 10:01 60.9		68.1 24/12/14 10:31 66.9 24/12/14 11:01		31/12/14 17:01 62.0 31/12/14 17:31 59.5
3/12/14 9:31	64.2	8/12/14 16:01	63.2	13/12/14 10:31 61.0	18/12/14 17:01 6	63.4 24/12/14 11:31	62.9	31/12/14 18:01 54.7
3/12/14 10:01 3/12/14 10:31	64.0 63.9	8/12/14 16:31 8/12/14 17:01	63.9 64.3	13/12/14 11:01 60.4 13/12/14 11:31 58.6		65.0 24/12/14 12:01 63.7 24/12/14 12:31		31/12/14 18:31 57.4
3/12/14 11:01	63.6	8/12/14 17:31	64.1	13/12/14 12:01 57.7	18/12/14 18:31 6	63.5 24/12/14 13:01	62.6	Normal Day 19:00-23:00,
3/12/14 11:31 3/12/14 12:01	63.5 63.2	8/12/14 18:01 8/12/14 18:31	51.7 63.2	13/12/14 12:31 57.1 13/12/14 13:01 57.7		60.7 24/12/14 13:31 62.1 24/12/14 14:01		Sunday & Holiday 07:00-23:00
3/12/14 12:31	63.5	9/12/14 7:01	58.3	13/12/14 13:31 57.2		62.9 24/12/14 14:31	63.4	4/40/44 40:04
3/12/14 13:01 3/12/14 13:31	35.3 63.9	9/12/14 7:31 9/12/14 8:01	64.3 49.6	13/12/14 14:01 57.0 13/12/14 14:31 56.7		63.2 24/12/14 15:01 63.4 24/12/14 15:31		1/12/14 19:01 47.4 1/12/14 19:06 63.1
3/12/14 14:01	64.1	9/12/14 8:31	64.3	13/12/14 15:01 56.8	19/12/14 9:31 6	63.3 24/12/14 16:01	63.8	1/12/14 19:11 62.1
3/12/14 14:31 3/12/14 15:01	63.9 63.6	9/12/14 9:01 9/12/14 9:31	54.1 48.6	13/12/14 15:31 57.4 13/12/14 16:01 56.5		63.7 24/12/14 16:31 68.9 24/12/14 17:01		1/12/14 19:16 62.5 1/12/14 19:21 63.1
3/12/14 15:31	60.7	9/12/14 10:01	64.2	13/12/14 16:31 56.2	19/12/14 11:01 3	35.3 24/12/14 17:31	63.3	1/12/14 19:26 63.7
3/12/14 16:01 3/12/14 16:31	63.8 63.5	9/12/14 10:31 9/12/14 11:01	64.1 64.2	13/12/14 17:01 54.8 13/12/14 17:31 57.0		63.0 24/12/14 18:01 63.9 24/12/14 18:31		1/12/14 19:31 63.6 1/12/14 19:36 63.5
3/12/14 17:01	63.5	9/12/14 11:31	64.0	13/12/14 18:01 56.2		63.7 27/12/14 7:01	59.9	1/12/14 19:41 63.2
3/12/14 17:31 3/12/14 18:01	63.7 64.2	9/12/14 12:01 9/12/14 12:31	63.6 64.0	13/12/14 18:31 57.2 15/12/14 7:01 56.0		63.3 27/12/14 7:31 63.4 27/12/14 8:01	60.4 62.0	1/12/14 19:46 63.5 1/12/14 19:51 61.7
3/12/14 18:31	63.4	9/12/14 13:01 9/12/14 13:31	54.6	15/12/14 7:31 54.7		63.6 27/12/14 8:31	60.9	1/12/14 19:56 62.5
4/12/14 7:01 4/12/14 7:31	52.5 52.1	9/12/14 13:31 9/12/14 14:01	52.8 51.6	15/12/14 8:01 54.6 15/12/14 8:31 53.9		69.0 27/12/14 9:01 63.5 27/12/14 9:31	62.9 70.1	1/12/14 20:01 63.4 1/12/14 20:06 62.9
4/12/14 8:01	57.8	9/12/14 14:31	64.2	15/12/14 9:01 54.7		63.3 27/12/14 10:01		1/12/14 20:11 62.7
4/12/14 8:31 4/12/14 9:01	49.9 59.5	9/12/14 15:01 9/12/14 15:31	63.3 60.2	15/12/14 9:31 56.7 15/12/14 10:01 55.0		68.8 27/12/14 10:31 63.5 27/12/14 11:01		1/12/14 20:16 62.5 1/12/14 20:21 62.2
4/12/14 9:31	43.9	9/12/14 16:01	64.1	15/12/14 10:31 54.7 15/12/14 11:01 55.0		63.1 27/12/14 11:31		1/12/14 20:26 62.7
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4/12/14 11:01	64.0	9/12/14 17:31	63.7	15/12/14 12:01 57.2		63.9 27/12/14 13:01		1/12/14 20:41 62.7
4/12/14 11:31 4/12/14 12:01	63.7 63.3	9/12/14 18:01 9/12/14 18:31	63.8 64.0	15/12/14 12:31 58.0 15/12/14 13:01 60.0		59.8 27/12/14 13:31 60.2 27/12/14 14:01		1/12/14 20:46 62.4 1/12/14 20:51 62.9
4/12/14 12:31	63.4	10/12/14 7:01	64.0	15/12/14 13:31 62.4		60.8 27/12/14 14:31		1/12/14 20:56 62.8
4/12/14 13:01 4/12/14 13:31	64.4 64.3	10/12/14 7:31 10/12/14 8:01	63.7 55.1	15/12/14 14:01 62.9 15/12/14 14:31 60.0		61.1 27/12/14 15:01 55.1 27/12/14 15:31		1/12/14 21:01 50.4 1/12/14 21:06 62.8
4/12/14 14:01	64.2	10/12/14 8:31	52.8	15/12/14 15:01 60.2		71.1 27/12/14 16:01		1/12/14 21:11 63.1
4/12/14 14:31 4/12/14 15:01	64.2 63.1	10/12/14 9:01 10/12/14 9:31	56.5 56.9	15/12/14 15:31 63.5 15/12/14 16:01 63.7		62.4 27/12/14 16:31 62.8 27/12/14 17:01		1/12/14 21:16 63.2 1/12/14 21:21 62.7
4/12/14 15:31	64.1	10/12/14 10:01	46.9	15/12/14 16:31 63.2	20/12/14 11:01 6	63.5 27/12/14 17:31	57.3	1/12/14 21:26 63.5
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4/12/14 17:01	64.2	10/12/14 11:31	63.6	15/12/14 18:01 62.8	20/12/14 12:31 6	62.5 29/12/14 7:01	59.8	1/12/14 21:41 63.7
4/12/14 17:31 4/12/14 18:01	63.7 63.7	10/12/14 12:01 10/12/14 12:31	57.2 63.5	15/12/14 18:31 62.8 16/12/14 7:01 56.7	20/12/14 13:31 6	62.8 29/12/14 7:31 69.1 29/12/14 8:01	60.9 61.9	1/12/14 21:46 55.4 1/12/14 21:51 63.2
4/12/14 18:31	63.6	10/12/14 13:01	63.9	16/12/14 7:31 56.2	20/12/14 14:01 6	62.7 29/12/14 8:31	62.5	1/12/14 21:56 62.7
5/12/14 7:01 5/12/14 7:31	52.7 64.2	10/12/14 13:31 10/12/14 14:01	58.4 52.8	16/12/14 8:01 55.8 16/12/14 8:31 55.3		67.4 29/12/14 9:01 62.5 29/12/14 9:31	66.1 68.5	1/12/14 22:01 63.0 1/12/14 22:06 63.2
5/12/14 8:01	56.3	10/12/14 14:31	44.3	16/12/14 9:01 55.4	20/12/14 15:31 6	62.6 29/12/14 10:01	66.1	1/12/14 22:11 50.4
5/12/14 8:31 5/12/14 9:01	49.6 64.1	10/12/14 15:01 10/12/14 15:31	63.3 63.0	16/12/14 9:31 56.0 16/12/14 10:01 55.6		63.0 29/12/14 10:31 63.3 29/12/14 11:01		1/12/14 22:16 57.8 1/12/14 22:21 56.1
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5/12/14 11:01	63.9	10/12/14 17:31	64.2 63.9	16/12/14 12:01 56.7	20/12/14 18:31 6	62.1 29/12/14 13:01 59.5 29/12/14 13:31	63.1	1/12/14 22:41 63.1 1/12/14 22:46 52.2
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1/12/14 22:56	63.1	4/12/14 20:01 47.4	6/12/14 21:06 63.3	7/12/14 14:11 70.3	8/12/14 19:16 64.6	10/12/14 20:21 54.6
2/12/14 19:01	61.9	4/12/14 20:06 52.2	6/12/14 21:11 63.4	7/12/14 14:16 70.0	8/12/14 19:21 63.1	10/12/14 20:26 52.2
2/12/14 19:06 2/12/14 19:11	63.6 63.0	4/12/14 20:11 62.6 4/12/14 20:16 62.3	6/12/14 21:16 63.0 6/12/14 21:21 63.3	7/12/14 14:21 71.8 7/12/14 14:26 70.8	8/12/14 19:26 52.2 8/12/14 19:31 63.2	10/12/14 20:31 63.5 10/12/14 20:36 63.4
2/12/14 19:16	63.0	4/12/14 20:21 62.9	6/12/14 21:26 63.6	7/12/14 14:31 73.6	8/12/14 19:36 53.5	10/12/14 20:41 62.4
2/12/14 19:21	63.7	4/12/14 20:26 62.5	6/12/14 21:31 57.8	7/12/14 14:36 70.3	8/12/14 19:41 56.1	10/12/14 20:46 62.4
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2/12/14 19:36	62.7	4/12/14 20:41 55.4	6/12/14 21:46 63.2	7/12/14 14:51 70.5	8/12/14 19:56 50.4	10/12/14 21:01 52.2
2/12/14 19:41	54.6	4/12/14 20:46 62.7	6/12/14 21:51 63.2	7/12/14 14:56 69.7	8/12/14 20:01 47.4	10/12/14 21:06 62.9
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Continuous Noise M 27/12/14 22:21 6	Monitoring Data ACL3 1.9 28/12/14 15:26	(City Hall) 62.4 29/12/14 20	31 59.1 3	31/12/14 21:36	63.7	1/12/14 23:26	59.7	3/12/14 0:31	60.2
	2.6 28/12/14 15:31	61.6 29/12/14 20		31/12/14 21:41	67.3	1/12/14 23:31	58.2	3/12/14 0:36	56.5
	2.3 28/12/14 15:36	62.6 29/12/14 20		31/12/14 21:46	66.3	1/12/14 23:36	58.7	3/12/14 0:41	60.3
	2.4 28/12/14 15:41 3.2 28/12/14 15:46	64.8 29/12/14 20 60.2 29/12/14 20		31/12/14 21:51 31/12/14 21:56	69.1 68.4	1/12/14 23:41 1/12/14 23:46	57.4 53.4	3/12/14 0:46 3/12/14 0:51	55.3 60.1
27/12/14 22:46 63	3.6 28/12/14 15:51	61.9 29/12/14 20	:56 65.5	31/12/14 22:01	70.0	1/12/14 23:51	57.4	3/12/14 0:56	44.0
	2.2 28/12/14 15:56	64.4 29/12/14 21		31/12/14 22:06	68.7	1/12/14 23:56	59.7	3/12/14 1:01	60.0
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28/12/14 7:06 57	7.5 28/12/14 16:11	61.1 29/12/14 21	:16 61.9	31/12/14 22:21	69.5	2/12/14 0:11	54.9	3/12/14 1:16	60.3
	7.7 28/12/14 16:16	63.1 29/12/14 21 64.3 29/12/14 21		31/12/14 22:26	70.6	2/12/14 0:16	56.8	3/12/14 1:21	60.3
	6.3 28/12/14 16:21 6.6 28/12/14 16:26	64.3 29/12/14 21 61.4 29/12/14 21		31/12/14 22:31 31/12/14 22:36	67.8 65.2	2/12/14 0:21 2/12/14 0:26	55.7 53.4	3/12/14 1:26 3/12/14 1:31	59.4 59.3
28/12/14 7:26 63	3.2 28/12/14 16:31	63.5 29/12/14 21	36 57.8	31/12/14 22:41	66.0	2/12/14 0:31	54.9	3/12/14 1:36	60.2
	8.2 28/12/14 16:36 8.4 28/12/14 16:41	60.2 29/12/14 21 65.0 29/12/14 21		31/12/14 22:46	66.1 66.1	2/12/14 0:36	57.1	3/12/14 1:41	58.5 59.2
	8.4 28/12/14 16:41 9.8 28/12/14 16:46	65.0 29/12/14 21 62.4 29/12/14 21		31/12/14 22:51 31/12/14 22:56	67.6	2/12/14 0:41 2/12/14 0:46	50.1 56.1	3/12/14 1:46 3/12/14 1:51	58.7
28/12/14 7:46 56	6.8 28/12/14 16:51	62.1 29/12/14 21	:56 63.9			2/12/14 0:51	60.1	3/12/14 1:56	58.5
	8.5 28/12/14 16:56	63.5 29/12/14 22		Night time: 23:00	<u>-07:00</u>	2/12/14 0:56	60.2	3/12/14 2:01	59.1
	7.1 28/12/14 17:01 7.3 28/12/14 17:06	62.1 29/12/14 22 62.8 29/12/14 22		1/12/14 0:01	55.9	2/12/14 1:01 2/12/14 1:06	53.9 60.3	3/12/14 2:06 3/12/14 2:11	58.1 57.6
28/12/14 8:06 58	8.1 28/12/14 17:11	63.7 29/12/14 22	:16 59.9 1	1/12/14 0:06	55.8	2/12/14 1:11	59.9	3/12/14 2:16	59.3
	8.2 28/12/14 17:16 8.1 28/12/14 17:21	62.1 29/12/14 22 63.3 29/12/14 22		1/12/14 0:11 1/12/14 0:16	55.6 55.9	2/12/14 1:16 2/12/14 1:21	44.0 50.1	3/12/14 2:21 3/12/14 2:26	58.5 57.7
	8.4 28/12/14 17:26	64.4 29/12/14 22		1/12/14 0:16	55.8	2/12/14 1:26	59.6	3/12/14 2:20	58.2
28/12/14 8:26 58	8.4 28/12/14 17:31	62.1 29/12/14 22	36 56.8	1/12/14 0:26	55.9	2/12/14 1:31	60.1	3/12/14 2:36	57.5
	7.8 28/12/14 17:36 9.2 28/12/14 17:41	60.8 29/12/14 22 60.5 29/12/14 22		1/12/14 0:31	54.6 55.4	2/12/14 1:36 2/12/14 1:41	58.9 60.0	3/12/14 2:41 3/12/14 2:46	58.5
	8.3 28/12/14 17:46	61.9 29/12/14 22		1/12/14 0:36 1/12/14 0:41	54.2	2/12/14 1:46	59.0	3/12/14 2:40	57.3 57.6
	8.6 28/12/14 17:51	63.7 29/12/14 22	:56 62.6	1/12/14 0:46	54.4	2/12/14 1:51	58.9	3/12/14 2:56	58.9
	8.9 28/12/14 17:56 8.9 28/12/14 18:01	63.1 30/12/14 19 63.9 30/12/14 19		1/12/14 0:51 1/12/14 0:56	53.9 53.9	2/12/14 1:56 2/12/14 2:01	59.9 59.5	3/12/14 3:01 3/12/14 3:06	57.9 58.1
	8.6 28/12/14 18:06	64.6 30/12/14 19		1/12/14 0.56	53.9	2/12/14 2:06	58.4	3/12/14 3:00	58.3
28/12/14 9:06 57	7.6 28/12/14 18:11	63.5 30/12/14 19	:16 63.6 1	1/12/14 1:06	59.8	2/12/14 2:11	57.9	3/12/14 3:16	56.7
	9.3 28/12/14 18:16	62.6 30/12/14 19		1/12/14 1:11	55.8	2/12/14 2:16 2/12/14 2:21	59.1	3/12/14 3:21	57.8
	9.1 28/12/14 18:21 8.8 28/12/14 18:26	64.8 30/12/14 19 64.1 30/12/14 19		1/12/14 1:16 1/12/14 1:21	53.5 54.3	2/12/14 2:21	58.6 58.0	3/12/14 3:26 3/12/14 3:31	58.3 57.7
28/12/14 9:26 60	0.2 28/12/14 18:31	63.5 30/12/14 19	36 54.6 1	1/12/14 1:26	55.0	2/12/14 2:31	57.9	3/12/14 3:36	57.1
	9.0 28/12/14 18:36	63.7 30/12/14 19 62.6 30/12/14 19		1/12/14 1:31	56.5	2/12/14 2:36	58.1	3/12/14 3:41	57.1
	8.5 28/12/14 18:41 0.7 28/12/14 18:46	62.6 30/12/14 19 63.3 30/12/14 19		1/12/14 1:36 1/12/14 1:41	57.6 56.1	2/12/14 2:41 2/12/14 2:46	58.9 58.0	3/12/14 3:46 3/12/14 3:51	58.2 57.9
28/12/14 9:46 59	9.9 28/12/14 18:51	62.8 30/12/14 19	:56 63.3	1/12/14 1:46	57.1	2/12/14 2:51	57.2	3/12/14 3:56	57.9
	9.5 28/12/14 18:56 0.0 28/12/14 19:01	61.9 30/12/14 20 63.1 30/12/14 20		1/12/14 1:51	55.9	2/12/14 2:56	57.7	3/12/14 4:01	57.7
	0.0 28/12/14 19:01 0.4 28/12/14 19:06	63.1 30/12/14 20 60.8 30/12/14 20		1/12/14 1:56 1/12/14 2:01	56.6 57.2	2/12/14 3:01 2/12/14 3:06	59.5 59.1	3/12/14 4:06 3/12/14 4:11	57.2 58.4
28/12/14 10:06 59	9.7 28/12/14 19:11	59.9 30/12/14 20	:16 58.3	1/12/14 2:06	55.7	2/12/14 3:11	58.4	3/12/14 4:16	57.1
	9.6 28/12/14 19:16			1/12/14 2:11	59.0	2/12/14 3:16	57.5	3/12/14 4:21	58.6
	1.0 28/12/14 19:21 1.4 28/12/14 19:26	61.4 30/12/14 20 58.7 30/12/14 20		1/12/14 2:16 1/12/14 2:21	55.0 56.3	2/12/14 3:21 2/12/14 3:26	57.2 58.6	3/12/14 4:26 3/12/14 4:31	57.0 58.0
	0.4 28/12/14 19:31	61.9 30/12/14 20	36 58.3	1/12/14 2:26	57.7	2/12/14 3:31	57.4	3/12/14 4:36	58.9
	0.3 28/12/14 19:36	61.4 30/12/14 20		1/12/14 2:31	54.5	2/12/14 3:36	58.5	3/12/14 4:41	58.1
	0.6 28/12/14 19:41 0.2 28/12/14 19:46	61.1 30/12/14 20 61.1 30/12/14 20		1/12/14 2:36 1/12/14 2:41	54.7 54.6	2/12/14 3:41 2/12/14 3:46	56.1 58.0	3/12/14 4:46 3/12/14 4:51	59.1 58.5
28/12/14 10:46 6	1.3 28/12/14 19:51	57.8 30/12/14 20	:56 58.7 1	1/12/14 2:46	54.0	2/12/14 3:51	56.9	3/12/14 4:56	59.0
	1.5 28/12/14 19:56	59.5 30/12/14 21 56.8 30/12/14 21		1/12/14 2:51	54.5	2/12/14 3:56	56.3	3/12/14 5:01	58.9
	1.7 28/12/14 20:01 3.4 28/12/14 20:06	56.8 30/12/14 21 58.7 30/12/14 21		1/12/14 2:56 1/12/14 3:01	53.5 55.0	2/12/14 4:01 2/12/14 4:06	57.6 58.7	3/12/14 5:06 3/12/14 5:11	47.0 60.0
28/12/14 11:06 6	1.7 28/12/14 20:11	58.3 30/12/14 21	:16 56.8 1	1/12/14 3:06	55.2	2/12/14 4:11	58.5	3/12/14 5:16	60.3
	2.4 28/12/14 20:16	59.1 30/12/14 21 61.6 30/12/14 21		1/12/14 3:11 1/12/14 3:16	56.1	2/12/14 4:16 2/12/14 4:21	56.7	3/12/14 5:21 3/12/14 5:26	60.2
	2.4 28/12/14 20:21 2.5 28/12/14 20:26	61.6 30/12/14 21 56.1 30/12/14 21		1/12/14 3:16	56.3 57.1	2/12/14 4:26	56.7 56.3	3/12/14 5:20	59.1 59.2
28/12/14 11:26 6°	1.9 28/12/14 20:31	56.1 30/12/14 21	36 63.5	1/12/14 3:26	55.8	2/12/14 4:31	56.0	3/12/14 5:36	48.8
	1.5 28/12/14 20:36 2.8 28/12/14 20:41			1/12/14 3:31 1/12/14 3:36	56.8 55.0	2/12/14 4:36 2/12/14 4:41	57.2 57.1	3/12/14 5:41 3/12/14 5:46	44.0 54.9
	2.8 28/12/14 20:46			1/12/14 3:41	55.1	2/12/14 4:46	58.1	3/12/14 5:51	59.8
28/12/14 11:46 62	2.8 28/12/14 20:51	63.6 30/12/14 21	:56 50.4 1	1/12/14 3:46	54.5	2/12/14 4:51	57.8	3/12/14 5:56	55.3
	2.6 28/12/14 20:56 3.0 28/12/14 21:01	62.4 30/12/14 22 63.7 30/12/14 22		1/12/14 3:51 1/12/14 3:56	54.9 54.2	2/12/14 4:56 2/12/14 5:01	58.0 59.9	3/12/14 6:01 3/12/14 6:06	56.8 57.1
	3.0 28/12/14 21:06			1/12/14 3:30	54.1	2/12/14 5:06	58.5	3/12/14 6:00	57.1
	2.9 28/12/14 21:11	56.1 30/12/14 22		1/12/14 4:06	54.3	2/12/14 5:11	58.8	3/12/14 6:16	57.7
	2.9 28/12/14 21:16 0.4 28/12/14 21:21	47.4 30/12/14 22 56.8 30/12/14 22		1/12/14 4:11 1/12/14 4:16	53.9 54.2	2/12/14 5:16 2/12/14 5:21	59.8 58.4	3/12/14 6:21 3/12/14 6:26	55.3 59.0
	0.4 28/12/14 21:26			1/12/14 4:21	54.6	2/12/14 5:26	59.6	3/12/14 6:31	59.2
	2.5 28/12/14 21:31	60.2 30/12/14 22		1/12/14 4:26	54.4	2/12/14 5:31	59.2	3/12/14 6:36	57.4
	5.4 28/12/14 21:36 3.4 28/12/14 21:41	59.9 30/12/14 22 58.3 30/12/14 22		1/12/14 4:31 1/12/14 4:36	54.5 54.5	2/12/14 5:36 2/12/14 5:41	52.0 59.8	3/12/14 6:41 3/12/14 6:46	59.0 60.9
28/12/14 12:41 63	3.5 28/12/14 21:46	63.1 30/12/14 22	51 62.7	1/12/14 4:41	55.8	2/12/14 5:46	53.4	3/12/14 6:51	61.8
	3.5 28/12/14 21:51	55.4 30/12/14 22		1/12/14 4:46	55.4 EE 0	2/12/14 5:51	47.0	3/12/14 6:56	61.8
	3.6 28/12/14 21:56 8.3 28/12/14 22:01	47.4 31/12/14 19 47.4 31/12/14 19		1/12/14 4:51 1/12/14 4:56	55.0 54.6	2/12/14 5:56 2/12/14 6:01	52.7 56.1	3/12/14 23:01 3/12/14 23:06	57.7 57.7
28/12/14 13:01 63	3.2 28/12/14 22:06	53.5 31/12/14 19	:11 59.1 1	1/12/14 5:01	54.7	2/12/14 6:06	55.3	3/12/14 23:11	56.5
	5.4 28/12/14 22:11 8.7 28/12/14 22:16	55.4 31/12/14 19		1/12/14 5:06 1/12/14 5:11	54.3 55.0	2/12/14 6:11	52.7 57.1	3/12/14 23:16	59.4
	8.7 28/12/14 22:16 6.8 28/12/14 22:21	55.4 31/12/14 19 63.3 31/12/14 19		1/12/14 5:11 1/12/14 5:16	55.0 55.6	2/12/14 6:16 2/12/14 6:21	57.1 58.0	3/12/14 23:21 3/12/14 23:26	60.9 58.7
28/12/14 13:21 56	6.1 28/12/14 22:26	58.3 31/12/14 19	31 62.6	1/12/14 5:21	55.6	2/12/14 6:26	58.0	3/12/14 23:31	60.5
	6.1 28/12/14 22:31	58.3 31/12/14 19		1/12/14 5:26	55.3	2/12/14 6:31	58.5	3/12/14 23:36	61.4
	3.5 28/12/14 22:36 3.6 28/12/14 22:41	63.0 31/12/14 19 56.8 31/12/14 19		1/12/14 5:31 1/12/14 5:36	55.2 55.5	2/12/14 6:36 2/12/14 6:41	56.8 59.4	3/12/14 23:41 3/12/14 23:46	61.9 60.5
	7.3 28/12/14 22:46	63.7 31/12/14 19	51 57.3	1/12/14 5:41	55.5	2/12/14 6:46	58.5	3/12/14 23:51	59.9
	2.2 28/12/14 22:51	63.4 31/12/14 19		1/12/14 5:46	55.7 EE 4	2/12/14 6:51	60.7	3/12/14 23:56	60.7
	1.1 28/12/14 22:56 3.7 29/12/14 19:01	55.4 31/12/14 20 62.6 31/12/14 20		1/12/14 5:51 1/12/14 5:56	55.4 55.4	2/12/14 6:56 2/12/14 23:01	60.7 56.5	4/12/14 0:01 4/12/14 0:06	61.0 58.7
28/12/14 14:01 56	6.1 29/12/14 19:06	61.9 31/12/14 20	:11 63.5 1	1/12/14 6:01	55.5	2/12/14 23:06	58.7	4/12/14 0:11	61.0
	6.8 29/12/14 19:11	63.3 31/12/14 20		1/12/14 6:06	55.8 55.7	2/12/14 23:11	58.2	4/12/14 0:16	59.0
	7.3 29/12/14 19:16 8.7 29/12/14 19:21	67.3 31/12/14 20 67.6 31/12/14 20		1/12/14 6:11 1/12/14 6:16	55.7 56.5	2/12/14 23:16 2/12/14 23:21	60.1 58.7	4/12/14 0:21 4/12/14 0:26	59.0 59.0
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	4.6 29/12/14 19:31	61.9 31/12/14 20		1/12/14 6:26	55.9	2/12/14 23:31	58.2	4/12/14 0:36	58.7
	9.5 29/12/14 19:36 1.1 29/12/14 19:41	61.1 31/12/14 20 63.9 31/12/14 20		1/12/14 6:31 1/12/14 6:36	56.3 56.3	2/12/14 23:36 2/12/14 23:41	57.4 58.2	4/12/14 0:41 4/12/14 0:46	57.1 57.1
28/12/14 14:41 60	0.8 29/12/14 19:46	63.9 31/12/14 20	51 60.5	1/12/14 6:41	56.4	2/12/14 23:46	56.8	4/12/14 0:51	52.7
	1.6 29/12/14 19:51 6.8 29/12/14 19:56	61.4 31/12/14 20 60.2 31/12/14 21		1/12/14 6:46 1/12/14 6:51	56.8 56.8	2/12/14 23:51	56.5 54.4	4/12/14 0:56 4/12/14 1:01	53.9 56.1
	6.8 29/12/14 19:56 8.7 29/12/14 20:01			1/12/14 6:51 1/12/14 6:56	56.8 57.3	2/12/14 23:56 3/12/14 0:01	54.4 55.7	4/12/14 1:01 4/12/14 1:06	56.1 54.4
28/12/14 15:01 62	2.6 29/12/14 20:06	57.8 31/12/14 21	:11 61.6 1	1/12/14 23:01	59.0	3/12/14 0:06	52.0	4/12/14 1:11	60.1
	3.5 29/12/14 20:11 2.6 29/12/14 20:16	61.4 31/12/14 21 55.4 31/12/14 21		1/12/14 23:06 1/12/14 23:11	60.3 59.9	3/12/14 0:11 3/12/14 0:16	56.8 54.4	4/12/14 1:16 4/12/14 1:21	58.5 54.9
	29/12/14 20:16 1.9 29/12/14 20:21	61.6 31/12/14 21		1/12/14 23:11 1/12/14 23:16	61.2	3/12/14 0:16 3/12/14 0:21	54.4 54.4	4/12/14 1:21 4/12/14 1:26	54.9 53.4
	3.5 29/12/14 20:26			1/12/14 23:21	59.2	3/12/14 0:26	52.0	4/12/14 1:31	60.1

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4/12/14 2:16	60.1		7.1 6/12/14 4:26		7/12/14 5:31	60.3	8/12/14 6:36	59.4	9/12/14 23:41 63.2
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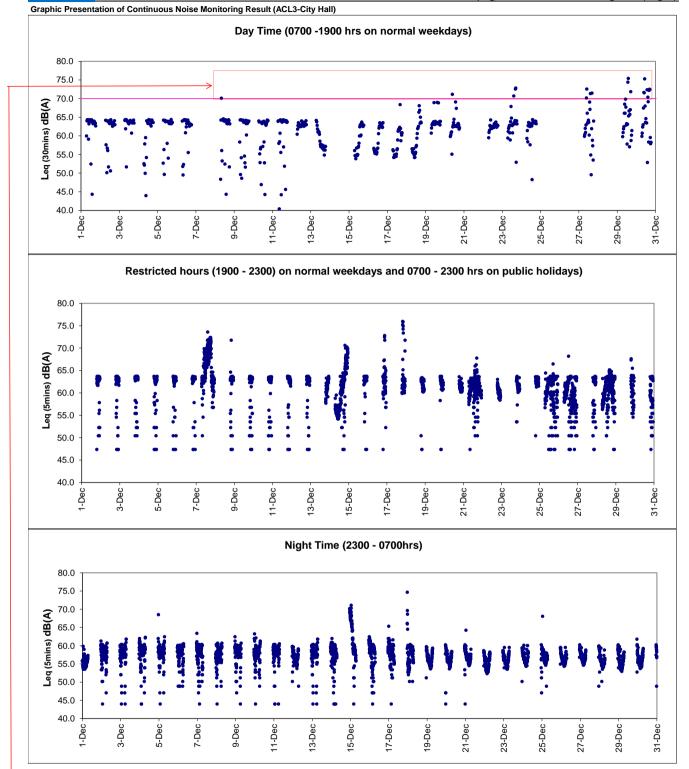
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11/12/14 0:51	60.3	12/12/14 1:56 56.6	13/12/14 3:01 57.9	14/12/14 4:06 57.7	15/12/14 5:11 58.9	16/12/14 6:16 57.9
11/12/14 0:56 11/12/14 1:01	52.7 44.0	12/12/14 2:01 55.0 12/12/14 2:06 55.8	13/12/14 3:06 58.1 13/12/14 3:11 58.3	14/12/14 4:11 60.3 14/12/14 4:16 60.1	15/12/14 5:16 59.7 15/12/14 5:21 59.0	16/12/14 6:21 58.1 16/12/14 6:26 58.4
11/12/14 1:06	60.2	12/12/14 2:00 33:8	13/12/14 3:11 36:3	14/12/14 4:10 00:1	15/12/14 5:26 59.0	16/12/14 6:31 58.2
11/12/14 1:11	48.8	12/12/14 2:16 55.8	13/12/14 3:21 57.8	14/12/14 4:26 44.0	15/12/14 5:31 59.1	16/12/14 6:36 57.7
11/12/14 1:16 11/12/14 1:21	60.3 44.0	12/12/14 2:21 55.0 12/12/14 2:26 55.5	13/12/14 3:26 58.3 13/12/14 3:31 57.7	14/12/14 4:31 60.1 14/12/14 4:36 56.8	15/12/14 5:36 58.6 15/12/14 5:41 57.7	16/12/14 6:41 57.7 16/12/14 6:46 56.6
11/12/14 1:26	60.2	12/12/14 2:20 55:3	13/12/14 3:36 57.1	14/12/14 4:41 60.2	15/12/14 5:46 57.8	16/12/14 6:51 55.5
11/12/14 1:31	58.8	12/12/14 2:36 55.2	13/12/14 3:41 57.1	14/12/14 4:46 59.0	15/12/14 5:51 58.6	16/12/14 6:56 55.4
11/12/14 1:36 11/12/14 1:41	59.3 59.0	12/12/14 2:41 55.1 12/12/14 2:46 55.6	13/12/14 3:46 58.2 13/12/14 3:51 57.9	14/12/14 4:51 59.8 14/12/14 4:56 59.3	15/12/14 5:56 58.0 15/12/14 6:01 58.6	16/12/14 23:01 58.5 16/12/14 23:06 59.0
11/12/14 1:46	59.5	12/12/14 2:51 56.4	13/12/14 3:56 57.9	14/12/14 5:01 57.1	15/12/14 6:06 58.0	16/12/14 23:11 59.7
11/12/14 1:51 11/12/14 1:56	59.3 59.0	12/12/14 2:56 56.2 12/12/14 3:01 55.3	13/12/14 4:01 57.7 13/12/14 4:06 57.2	14/12/14 5:06 55.7 14/12/14 5:11 58.1	15/12/14 6:11 58.8 15/12/14 6:16 57.4	16/12/14 23:16 58.0 16/12/14 23:21 61.9
11/12/14 1:50	59.8	12/12/14 3:01 55:3	13/12/14 4:06 57:2	14/12/14 5:11 58:1	15/12/14 6:16 57:4	16/12/14 23:26 59.4
11/12/14 2:06	58.9	12/12/14 3:11 55.3	13/12/14 4:16 57.1	14/12/14 5:21 58.9	15/12/14 6:26 57.3	16/12/14 23:31 61.0
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11/12/14 2:10	59.0	12/12/14 3:26 55.0	13/12/14 4:31 58.0	14/12/14 5:36 58.1	15/12/14 6:41 56.0	16/12/14 23:46 59.0
11/12/14 2:26	59.5	12/12/14 3:31 55.8	13/12/14 4:36 58.9	14/12/14 5:41 58.2	15/12/14 6:46 55.8	16/12/14 23:51 58.7
11/12/14 2:31 11/12/14 2:36	57.9 58.0	12/12/14 3:36 55.0 12/12/14 3:41 57.5	13/12/14 4:41 58.1 13/12/14 4:46 59.1	14/12/14 5:46 58.3 14/12/14 5:51 59.1	15/12/14 6:51 57.3 15/12/14 6:56 55.8	16/12/14 23:56 65.3 17/12/14 0:01 58.0
11/12/14 2:41	57.8	12/12/14 3:46 54.8	13/12/14 4:51 58.5	14/12/14 5:56 58.1	15/12/14 23:01 61.6	17/12/14 0:06 60.5
11/12/14 2:46	58.3	12/12/14 3:51 56.0	13/12/14 4:56 59.0	14/12/14 6:01 57.7	15/12/14 23:06 60.7	17/12/14 0:11 59.4
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11/12/14 3:01	58.5	12/12/14 4:06 54.8	13/12/14 5:11 60.0	14/12/14 6:16 57.5	15/12/14 23:21 61.6	17/12/14 0:26 58.7
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11/12/14 3:11	57.3 59.1	12/12/14 4:16 54.4 12/12/14 4:21 54.3	13/12/14 5:21 60.2	14/12/14 6:26 57.0 14/12/14 6:31 57.8	15/12/14 23:31 60.1	17/12/14 0:36 59.4
11/12/14 3:21	57.8	12/12/14 4:26 55.0	13/12/14 5:31 59.2	14/12/14 6:36 57.3	15/12/14 23:41 61.0	17/12/14 0:46 58.7
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11/12/14 3:36	57.8	12/12/14 4:41 54.6	13/12/14 5:46 54.9	14/12/14 6:51 56.6	15/12/14 23:56 62.1	17/12/14 1:01 57.1
11/12/14 3:41	58.3	12/12/14 4:46 54.3	13/12/14 5:51 59.8	14/12/14 6:56 57.1	16/12/14 0:01 59.2	17/12/14 1:06 58.5
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11/12/14 3:56	57.8	12/12/14 5:01 55.0	13/12/14 6:06 57.1	14/12/14 23:11 70.0	16/12/14 0:16 58.2	17/12/14 1:21 57.4
11/12/14 4:01	58.7 57.7	12/12/14 5:06 54.4	13/12/14 6:11 57.4 13/12/14 6:16 57.7	14/12/14 23:16 69.4 14/12/14 23:21 70.0	16/12/14 0:21 59.4	17/12/14 1:26 54.4
11/12/14 4:06 11/12/14 4:11	57.7 57.9	12/12/14 5:11 56.3 12/12/14 5:16 55.9	13/12/14 6:16 57.7 13/12/14 6:21 55.3	14/12/14 23:21 70.0 14/12/14 23:26 69.6	16/12/14 0:26 60.1 16/12/14 0:31 58.7	17/12/14 1:31 57.4 17/12/14 1:36 60.5
11/12/14 4:16	58.7	12/12/14 5:21 54.9	13/12/14 6:26 59.0	14/12/14 23:31 68.7	16/12/14 0:36 60.1	17/12/14 1:41 56.8
11/12/14 4:21 11/12/14 4:26	57.7 58.0	12/12/14 5:26 56.8 12/12/14 5:31 54.8	13/12/14 6:31 59.2 13/12/14 6:36 57.4	14/12/14 23:36 68.8 14/12/14 23:41 68.1	16/12/14 0:41 59.4 16/12/14 0:46 61.4	17/12/14 1:46 53.9 17/12/14 1:51 59.4
11/12/14 4:31	57.6	12/12/14 5:36 56.7	13/12/14 6:30 37:4	14/12/14 23:41 68:1	16/12/14 0:40 01:4	17/12/14 1:56 56.1
11/12/14 4:36	58.1	12/12/14 5:41 57.0	13/12/14 6:46 60.9	14/12/14 23:51 67.2	16/12/14 0:56 61.0	17/12/14 2:01 58.2
11/12/14 4:41 11/12/14 4:46	57.6 57.4	12/12/14 5:46 56.3 12/12/14 5:51 56.9	13/12/14 6:51 61.8 13/12/14 6:56 61.8	14/12/14 23:56 68.3 15/12/14 0:01 69.7	16/12/14 1:01 59.2 16/12/14 1:06 58.5	17/12/14 2:06 56.5 17/12/14 2:11 59.0
11/12/14 4:51	57.0	12/12/14 5:56 56.6	13/12/14 23:01 59.7	15/12/14 0:06 67.1	16/12/14 1:11 59.7	17/12/14 2:16 56.8
11/12/14 4:56 11/12/14 5:01	57.1 58.9	12/12/14 6:01 56.4 12/12/14 6:06 57.2	13/12/14 23:06 58.5 13/12/14 23:11 59.2	15/12/14 0:11 67.7 15/12/14 0:16 68.1	16/12/14 1:16 57.7 16/12/14 1:21 58.0	17/12/14 2:21 57.4 17/12/14 2:26 54.4
11/12/14 5:06	56.9 57.9	12/12/14 6:06 57:2	13/12/14 23:11 59:2	15/12/14 0:16 68.1 15/12/14 0:21 66.8	16/12/14 1:21 58.0 16/12/14 1:26 59.0	17/12/14 2:26 54.4 17/12/14 2:31 53.9
11/12/14 5:11	58.6	12/12/14 6:16 56.9	13/12/14 23:21 58.2	15/12/14 0:26 67.1	16/12/14 1:31 58.5	17/12/14 2:36 58.2
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11/12/14 5:26	59.2	12/12/14 6:31 57.5	13/12/14 23:36 59.7	15/12/14 0:41 69.3	16/12/14 1:46 58.7	17/12/14 2:51 60.0
11/12/14 5:31	59.4	12/12/14 6:36 59.1	13/12/14 23:41 54.4	15/12/14 0:46 69.1	16/12/14 1:51 59.7	17/12/14 2:56 53.4
11/12/14 5:36 11/12/14 5:41	58.8 59.9	12/12/14 6:41 58.8 12/12/14 6:46 59.0	13/12/14 23:46 59.2 13/12/14 23:51 58.0	15/12/14 0:51 71.0 15/12/14 0:56 70.3	16/12/14 1:56 57.7 16/12/14 2:01 58.7	17/12/14 3:01 59.3 17/12/14 3:06 44.0
11/12/14 5:46	44.0	12/12/14 6:51 58.6	13/12/14 23:56 60.9	15/12/14 1:01 68.4	16/12/14 2:06 58.5	17/12/14 3:11 59.8
11/12/14 5:51 11/12/14 5:56	59.0 60.1	12/12/14 6:56 48.8 12/12/14 23:01 56.5	14/12/14 0:01 55.7 14/12/14 0:06 60.7	15/12/14 1:06 68.1 15/12/14 1:11 66.2	16/12/14 2:11 58.2 16/12/14 2:16 54.4	17/12/14 3:16 60.0 17/12/14 3:21 60.1
11/12/14 6:01	54.4	12/12/14 23:06 58.7	14/12/14 0:00 00:7	15/12/14 1:16 66.6	16/12/14 2:10 54:4	17/12/14 3:26 60.0
11/12/14 6:06	55.3	12/12/14 23:11 58.2	14/12/14 0:16 57.7	15/12/14 1:21 66.0	16/12/14 2:26 56.8	17/12/14 3:31 59.4
11/12/14 6:11 11/12/14 6:16	54.4 58.2	12/12/14 23:16 60.1 12/12/14 23:21 58.7	14/12/14 0:21 60.9 14/12/14 0:26 57.7	15/12/14 1:26 65.8 15/12/14 1:31 65.2	16/12/14 2:31 58.2 16/12/14 2:36 51.2	17/12/14 3:36 60.1 17/12/14 3:41 52.0
11/12/14 6:21	56.1	12/12/14 23:26 59.7	14/12/14 0:31 59.0	15/12/14 1:36 66.2	16/12/14 2:41 54.4	17/12/14 3:46 60.2
11/12/14 6:26	56.5	12/12/14 23:31 58.2 12/12/14 23:36 57.4	14/12/14 0:36 60.9 14/12/14 0:41 55.3	15/12/14 1:41 66.8 15/12/14 1:46 65.7	16/12/14 2:46 55.3 16/12/14 2:51 56.5	17/12/14 3:51 60.3 17/12/14 3:56 59.5
11/12/14 6:31 11/12/14 6:36	58.7 59.9	12/12/14 23:36 57.4 12/12/14 23:41 58.2	14/12/14 0:41 55.3 14/12/14 0:46 61.9	15/12/14 1:46 65.7 15/12/14 1:51 65.6	16/12/14 2:51 56.5 16/12/14 2:56 53.9	17/12/14 3:56 59.5 17/12/14 4:01 59.0
11/12/14 6:41	58.2	12/12/14 23:46 56.8	14/12/14 0:51 58.7	15/12/14 1:56 65.0	16/12/14 3:01 60.0	17/12/14 4:06 51.2
11/12/14 6:46 11/12/14 6:51	57.7 59.0	12/12/14 23:51 56.5 12/12/14 23:56 54.4	14/12/14 0:56 60.3 14/12/14 1:01 57.7	15/12/14 2:01 64.8 15/12/14 2:06 66.0	16/12/14 3:06 48.8 16/12/14 3:11 60.2	17/12/14 4:11 59.8 17/12/14 4:16 58.4
11/12/14 6:56	60.5	13/12/14 0:01 55.7	14/12/14 1:06 55.3	15/12/14 2:11 64.1	16/12/14 3:16 52.7	17/12/14 4:21 58.5
11/12/14 23:01	57.1	13/12/14 0:06 52.0	14/12/14 1:11 59.0	15/12/14 2:16 63.9	16/12/14 3:21 47.0	17/12/14 4:26 59.6
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11/12/14 23:16	59.8	13/12/14 0:21 54.4	14/12/14 1:26 59.0	15/12/14 2:31 60.5	16/12/14 3:36 47.0	17/12/14 4:41 59.8
11/12/14 23:21	52.7	13/12/14 0:26 52.0	14/12/14 1:31 56.5	15/12/14 2:36 61.9	16/12/14 3:41 53.9	17/12/14 4:46 51.2
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11/12/14 23:36	58.2	13/12/14 0:41 60.3	14/12/14 1:46 55.3	15/12/14 2:51 61.6	16/12/14 3:56 52.0	17/12/14 5:01 57.6
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11/12/14 23:56	59.0	13/12/14 1:01 60.0	14/12/14 2:06 51.2	15/12/14 3:11 59.0	16/12/14 4:16 60.2	17/12/14 5:21 57.1
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12/12/14 0:16	56.7	13/12/14 1:21 60.3	14/12/14 2:26 58.5	15/12/14 3:31 58.2	16/12/14 4:36 50.1	17/12/14 5:41 57.3
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12/12/14 0:31	59.6	13/12/14 1:36 60.2	14/12/14 2:41 47.0	15/12/14 3:46 58.7	16/12/14 4:51 59.7	17/12/14 5:56 56.9
12/12/14 0:36 12/12/14 0:41	57.5 55.5	13/12/14 1:41 58.5	14/12/14 2:46 57.1	15/12/14 3:51 57.7	16/12/14 4:56 59.7 16/12/14 5:01 50.1	17/12/14 6:01 59.9
12/12/14 0:41 12/12/14 0:46	55.5 56.6	13/12/14 1:46 59.2 13/12/14 1:51 58.7	14/12/14 2:51 55.3 14/12/14 2:56 60.3	15/12/14 3:56 53.9 15/12/14 4:01 51.2	16/12/14 5:01 50.1 16/12/14 5:06 47.0	17/12/14 6:06 57.4 17/12/14 6:11 56.3
12/12/14 0:51	56.5	13/12/14 1:56 58.5	14/12/14 3:01 59.9	15/12/14 4:06 44.0	16/12/14 5:11 50.1	17/12/14 6:16 57.1
12/12/14 0:56 12/12/14 1:01	56.5 58.7	13/12/14 2:01 59.1 13/12/14 2:06 58.1	14/12/14 3:06 54.9 14/12/14 3:11 48.8	15/12/14 4:11 51.2 15/12/14 4:16 59.7	16/12/14 5:16 58.7 16/12/14 5:21 59.2	17/12/14 6:21 55.9 17/12/14 6:26 57.0
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Continuous Noise Monitoring 17/12/14 6:36 55.9	Data ACL3 (City Hall) 18/12/14 23:41 59.5	20/12/14 0:46 57.3	21/12/14 1:51 56.6	22/12/14 2:56 52.7	23/12/14 4:01 53.9
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17/12/14 23:01 66.1 17/12/14 23:06 59.2	19/12/14 0:06 57.2 19/12/14 0:11 57.6	20/12/14 1:11 58.6 20/12/14 1:16 55.8	21/12/14 2:16 57.1 21/12/14 2:21 56.2	22/12/14 3:21 52.5 22/12/14 3:26 52.5	23/12/14 4:26 54.1 23/12/14 4:31 54.8
17/12/14 23:00 39:2	19/12/14 0:11 57.0	20/12/14 1:10 55.6	21/12/14 2:21 50:2 21/12/14 2:26 57.1	22/12/14 3:20 32:3	23/12/14 4:36 53.5
17/12/14 23:16 66.0	19/12/14 0:21 57.0	20/12/14 1:26 56.3	21/12/14 2:31 56.1	22/12/14 3:36 56.2	23/12/14 4:41 54.9
17/12/14 23:21 69.6 17/12/14 23:26 58.0	19/12/14 0:26 56.8 19/12/14 0:31 57.5	20/12/14 1:31 55.5 20/12/14 1:36 56.4	21/12/14 2:36 56.0 21/12/14 2:41 56.5	22/12/14 3:41 54.2 22/12/14 3:46 53.3	23/12/14 4:46 54.0 23/12/14 4:51 54.3
17/12/14 23:31 68.6	19/12/14 0:36 56.8	20/12/14 1:41 57.7	21/12/14 2:46 57.0	22/12/14 3:51 53.9	23/12/14 4:56 54.4
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18/12/14 0:11 55.7 18/12/14 0:16 53.4	19/12/14 1:16 57.4 19/12/14 1:21 56.9	20/12/14 2:21 55.9 20/12/14 2:26 56.3	21/12/14 3:26 56.1 21/12/14 3:31 56.4	22/12/14 4:31 53.6 22/12/14 4:36 53.4	23/12/14 5:36 55.4 23/12/14 5:41 56.0
18/12/14 0:21 54.9	19/12/14 1:26 56.0	20/12/14 2:31 56.0	21/12/14 3:36 56.5	22/12/14 4:41 52.8	23/12/14 5:46 55.9
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18/12/14 2:16 55.3	19/12/14 3:16 54.4	20/12/14 4:26 54.2	21/12/14 5:26 55.2 21/12/14 5:31 55.1	22/12/14 6:31 57:1	23/12/14 23:41 58.3
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18/12/14 3:46 59.7	19/12/14 4:51 55.0	20/12/14 5:56 57.1	21/12/14 23:01 58.6	23/12/14 0:06 55.9	24/12/14 1:11 56.6
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18/12/14 4:01 59.3	19/12/14 5:06 55.4	20/12/14 6:11 57.2	21/12/14 23:16 58.2	23/12/14 0:21 56.6	24/12/14 1:26 56.8
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18/12/14 4:16 59.8	19/12/14 5:10 50.5	20/12/14 6:26 56.6	21/12/14 23:20 57:2	23/12/14 0:31 30:0	24/12/14 1:41 57.7
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18/12/14 4:51 58.3	19/12/14 5:56 56.3	20/12/14 23:01 59.1	22/12/14 0:06 56.4	23/12/14 1:11 56.6	24/12/14 2:16 55.8
18/12/14 4:56 58.3 18/12/14 5:01 58.2	19/12/14 6:01 56.5 19/12/14 6:06 57.1	20/12/14 23:06 59.6 20/12/14 23:11 53.4	22/12/14 0:11 56.9 22/12/14 0:16 55.9	23/12/14 1:16 56.5 23/12/14 1:21 56.6	24/12/14 2:21 55.2 24/12/14 2:26 55.6
18/12/14 5:01 58.2 18/12/14 5:06 58.1	19/12/14 6:06 57.1 19/12/14 6:11 58.1	20/12/14 23:16 59.9	22/12/14 0:16 55.9 22/12/14 0:21 56.3	23/12/14 1:21 56.6 23/12/14 1:26 56.2	24/12/14 2:31 55.9
18/12/14 5:11 58.0	19/12/14 6:16 57.4	20/12/14 23:21 58.5	22/12/14 0:26 55.7	23/12/14 1:31 55.9	24/12/14 2:36 56.1
18/12/14 5:16 57.6 18/12/14 5:21 57.8	19/12/14 6:21 56.8 19/12/14 6:26 58.8	20/12/14 23:26 60.2 20/12/14 23:31 52.0	22/12/14 0:31 55.0 22/12/14 0:36 54.4	23/12/14 1:36 55.7 23/12/14 1:41 55.0	24/12/14 2:41 55.6 24/12/14 2:46 55.3
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18/12/14 5:46 58.0	19/12/14 6:51 59.3	20/12/14 23:56 58.6	22/12/14 1:01 55.4	23/12/14 2:06 55.1	24/12/14 3:11 55.7
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18/12/14 6:01 58.2	19/12/14 23:06 60.2	21/12/14 0:11 58.5	22/12/14 1:16 54.8	23/12/14 2:21 55.5	24/12/14 3:26 55.2
18/12/14 6:06 56.1 18/12/14 6:11 56.8	19/12/14 23:11 47.0 19/12/14 23:16 60.1	21/12/14 0:16 58.0 21/12/14 0:21 57.9	22/12/14 1:21 54.8 22/12/14 1:26 56.8	23/12/14 2:26 55.0 23/12/14 2:31 55.2	24/12/14 3:31 55.5 24/12/14 3:36 55.8
18/12/14 6:16 59.1	19/12/14 23:21 44.0	21/12/14 0:26 57.6	22/12/14 1:31 53.9	23/12/14 2:36 55.8	24/12/14 3:41 55.0
18/12/14 6:21 56.9	19/12/14 23:26 59.8	21/12/14 0:31 59.2	22/12/14 1:36 53.2	23/12/14 2:41 54.8	24/12/14 3:46 54.8
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18/12/14 6:36 56.3	19/12/14 23:41 59.4	21/12/14 0:46 59.9	22/12/14 1:51 53.2	23/12/14 2:56 54.7	24/12/14 4:01 54.6
18/12/14 6:41 55.8 18/12/14 6:46 58.6	19/12/14 23:46 58.8 19/12/14 23:51 58.2	21/12/14 0:51 57.7 21/12/14 0:56 58.0	22/12/14 1:56 53.3 22/12/14 2:01 53.2	23/12/14 3:01 54.9 23/12/14 3:06 54.8	24/12/14 4:06 55.4 24/12/14 4:11 54.3
18/12/14 6:51 55.3	19/12/14 23:56 59.3	21/12/14 1:01 57.3	22/12/14 2:06 53.6	23/12/14 3:11 54.5	24/12/14 4:16 54.9
18/12/14 6:56 55.3	20/12/14 0:01 58.6	21/12/14 1:06 56.8	22/12/14 2:11 55.8	23/12/14 3:16 54.5	24/12/14 4:21 55.1
18/12/14 23:01 51.2 18/12/14 23:06 59.7	20/12/14 0:06 58.0 20/12/14 0:11 57.9	21/12/14 1:11 57.3 21/12/14 1:16 56.6	22/12/14 2:16 53.5 22/12/14 2:21 52.9	23/12/14 3:21 55.7 23/12/14 3:26 54.3	24/12/14 4:26 55.4 24/12/14 4:31 56.5
18/12/14 23:11 58.6	20/12/14 0:16 58.4	21/12/14 1:21 57.5	22/12/14 2:26 52.8	23/12/14 3:31 54.7	24/12/14 4:36 55.1
18/12/14 23:16 59.3 18/12/14 23:21 58.8	20/12/14 0:21 58.2 20/12/14 0:26 58.4	21/12/14 1:26 58.1 21/12/14 1:31 57.0	22/12/14 2:31 52.8 22/12/14 2:36 53.4	23/12/14 3:36 54.4 23/12/14 3:41 54.4	24/12/14 4:41 55.5 24/12/14 4:46 56.4
18/12/14 23:26 58.9	20/12/14 0:31 58.0	21/12/14 1:36 57.1	22/12/14 2:41 52.9	23/12/14 3:46 54.2	24/12/14 4:51 55.3
18/12/14 23:31 58.6 18/12/14 23:36 58.6	20/12/14 0:36 58.1 20/12/14 0:41 57.8	21/12/14 1:41 56.2 21/12/14 1:46 57.3	22/12/14 2:46 52.7 22/12/14 2:51 53.3	23/12/14 3:51 53.6 23/12/14 3:56 54.5	24/12/14 4:56 58.9 24/12/14 5:01 55.3
10/12/17 23.30 30.0	20/12/14 0.41 37.0	Z1/12/14 1.40 3/.3	ZZIZITZ.JI 33.3	20/12/14 0.00 04.0	27/12/14 0.01 00.0

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24/12/14 5:21	56.4	25/12/14 6:26 56.4	26/12/14 23:31 59.7	28/12/14 0:36 56.8	29/12/14 1:41 54.9	30/12/14 2:46 54.8
24/12/14 5:26	56.4	25/12/14 6:31 56.1	26/12/14 23:36 58.9	28/12/14 0:41 57.5	29/12/14 1:46 54.3	30/12/14 2:51 53.9
24/12/14 5:31	55.7	25/12/14 6:36 56.7	26/12/14 23:41 58.4	28/12/14 0:46 56.4	29/12/14 1:51 55.4	30/12/14 2:56 54.4
24/12/14 5:36	56.1	25/12/14 6:41 56.1	26/12/14 23:46 59.1	28/12/14 0:51 56.1	29/12/14 1:56 54.5	30/12/14 3:01 54.0
24/12/14 5:41	55.8	25/12/14 6:46 56.5	26/12/14 23:51 59.0	28/12/14 0:56 56.5	29/12/14 2:01 53.7	30/12/14 3:06 54.4
24/12/14 5:46	55.7	25/12/14 6:51 56.3	26/12/14 23:56 58.6	28/12/14 1:01 56.5	29/12/14 2:06 53.6	30/12/14 3:11 53.7
24/12/14 5:51	60.0	25/12/14 6:56 57.2	27/12/14 0:01 59.7	28/12/14 1:06 56.1	29/12/14 2:11 54.0	30/12/14 3:16 54.0
24/12/14 5:56	60.0	25/12/14 23:01 54.9	27/12/14 0:06 58.1	28/12/14 1:11 56.2	29/12/14 2:16 54.0	30/12/14 3:21 54.6
24/12/14 6:01	57.7	25/12/14 23:06 59.4	27/12/14 0:11 58.4	28/12/14 1:16 57.4	29/12/14 2:21 59.0	30/12/14 3:26 56.3
24/12/14 6:06	57.7	25/12/14 23:11 59.0	27/12/14 0:16 58.2	28/12/14 1:21 57.2	29/12/14 2:26 54.0	30/12/14 3:31 54.1
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24/12/14 6:16	58.4	25/12/14 23:21 59.0	27/12/14 0:26 57.9	28/12/14 1:31 55.7	29/12/14 2:36 53.3	30/12/14 3:41 54.8
24/12/14 6:21	57.8	25/12/14 23:26 59.4	27/12/14 0:31 57.9	28/12/14 1:36 56.2	29/12/14 2:41 53.5	30/12/14 3:46 55.4
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24/12/14 6:31	56.7	25/12/14 23:36 57.9	27/12/14 0:41 58.0	28/12/14 1:46 55.6	29/12/14 2:51 54.6	30/12/14 3:56 53.9
24/12/14 6:36	57.9	25/12/14 23:41 58.4	27/12/14 0:46 58.5	28/12/14 1:51 55.7	29/12/14 2:56 55.1	30/12/14 4:01 54.4
24/12/14 6:41	57.0	25/12/14 23:46 58.1	27/12/14 0:51 57.1	28/12/14 1:56 59.3	29/12/14 3:01 57.1	30/12/14 4:06 54.3
24/12/14 6:46	58.3	25/12/14 23:51 57.8	27/12/14 0:56 56.7	28/12/14 2:01 55.5	29/12/14 3:06 55.3	30/12/14 4:11 54.9
24/12/14 6:51	58.3	25/12/14 23:56 58.4	27/12/14 1:01 57.0	28/12/14 2:06 56.1	29/12/14 3:11 55.0	30/12/14 4:16 54.6
24/12/14 6:56	57.9	26/12/14 0:01 57.5	27/12/14 1:06 57.4	28/12/14 2:11 55.6	29/12/14 3:16 54.8	30/12/14 4:21 55.9
24/12/14 23:01	53.9	26/12/14 0:06 57.5	27/12/14 1:11 57.1	28/12/14 2:16 55.9	29/12/14 3:21 54.8	30/12/14 4:26 54.9
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24/12/14 23:06 24/12/14 23:11	60.2	26/12/14 0:11 57.2 26/12/14 0:16 57.7	27/12/14 1:16 56.7 27/12/14 1:21 56.8	28/12/14 2:26 56.4	29/12/14 3:26 54.9 29/12/14 3:31 56.0	30/12/14 4:31 54.2 30/12/14 4:36 54.4
24/12/14 23:16	56.5	26/12/14 0:21 57.2	27/12/14 1:26 59.4	28/12/14 2:31 55.7	29/12/14 3:36 54.4	30/12/14 4:41 54.1
24/12/14 23:21	51.2	26/12/14 0:26 56.7	27/12/14 1:31 56.8	28/12/14 2:36 54.9	29/12/14 3:41 54.0	30/12/14 4:46 55.1
24/12/14 23:26	57.7	26/12/14 0:31 56.8	27/12/14 1:36 56.8	28/12/14 2:41 55.4	29/12/14 3:46 54.2	30/12/14 4:51 54.5
24/12/14 23:31	47.0	26/12/14 0:36 57.4	27/12/14 1:41 56.6	28/12/14 2:46 54.5	29/12/14 3:51 53.2	30/12/14 4:56 55.4
24/12/14 23:36	59.1	26/12/14 0:41 56.8	27/12/14 1:46 56.2	28/12/14 2:51 54.6	29/12/14 3:56 53.6	30/12/14 5:01 54.2
24/12/14 23:41	52.7	26/12/14 0:46 56.6	27/12/14 1:51 57.7	28/12/14 2:56 56.0	29/12/14 4:01 53.4	30/12/14 5:06 54.7
24/12/14 23:46	59.1	26/12/14 0:51 56.8	27/12/14 1:56 57.9	28/12/14 3:01 50.1	29/12/14 4:06 52.9	30/12/14 5:11 56.0
24/12/14 23:51	59.2	26/12/14 0:56 57.2	27/12/14 2:01 56.7	28/12/14 3:06 55.0	29/12/14 4:11 53.8	30/12/14 5:16 55.2
24/12/14 23:56	58.9	26/12/14 1:01 57.3	27/12/14 2:06 56.3	28/12/14 3:11 54.9	29/12/14 4:16 53.8	30/12/14 5:21 56.5
25/12/14 0:01	58.8	26/12/14 1:06 57.0	27/12/14 2:11 56.2	28/12/14 3:16 55.0	29/12/14 4:21 53.7	30/12/14 5:26 56.9
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25/12/14 0:16	58.9	26/12/14 1:26 56.0	27/12/14 2:20 36:1 27/12/14 2:31 56:7	28/12/14 3:36 54.4	29/12/14 4:41 54.2	30/12/14 5:46 57.8
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25/12/14 0:36	58.9	26/12/14 1:41 56.8	27/12/14 2:46 55.4	28/12/14 3:51 54.2	29/12/14 4:56 55.2	30/12/14 6:01 56.6
25/12/14 0:41	58.7	26/12/14 1:46 55.9	27/12/14 2:51 55.8	28/12/14 3:56 54.0	29/12/14 5:01 54.4	30/12/14 6:06 57.0
25/12/14 0:46	68.0	26/12/14 1:51 56.1	27/12/14 2:56 55.6	28/12/14 4:01 53.9	29/12/14 5:06 55.4	30/12/14 6:11 58.3
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25/12/14 1:21	58.3	26/12/14 2:26 55.6	27/12/14 3:31 55.8	28/12/14 4:36 55.6	29/12/14 5:41 55.8	30/12/14 6:46 58.3
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25/12/14 1:31	57.2	26/12/14 2:36 55.7	27/12/14 3:41 55.5	28/12/14 4:46 54.1	29/12/14 5:51 56.7	30/12/14 6:56 59.0
25/12/14 1:36	58.2	26/12/14 2:41 55.4	27/12/14 3:46 55.0	28/12/14 4:51 54.6	29/12/14 5:56 56.2	30/12/14 23:01 57.4
25/12/14 1:41	57.1	26/12/14 2:46 55.4	27/12/14 3:51 55.3	28/12/14 4:56 54.8	29/12/14 6:01 56.7	30/12/14 23:06 60.2
25/12/14 1:46	58.9	26/12/14 2:51 55.6	27/12/14 3:56 54.8	28/12/14 5:01 54.1	29/12/14 6:06 55.7	30/12/14 23:11 60.0
25/12/14 1:51	56.9	26/12/14 2:56 56.7	27/12/14 4:01 54.6	28/12/14 5:06 55.1	29/12/14 6:11 56.7	30/12/14 23:16 59.6
25/12/14 1:56	56.7	26/12/14 3:01 55.8	27/12/14 4:06 55.7	28/12/14 5:11 55.6	29/12/14 6:16 57.7	30/12/14 23:21 59.7
25/12/14 2:01	57.1	26/12/14 3:06 55.1	27/12/14 4:11 56.4	28/12/14 5:16 54.3	29/12/14 6:21 56.6	30/12/14 23:26 59.4
25/12/14 2:06	57.4	26/12/14 3:11 54.9	27/12/14 4:16 54.9	28/12/14 5:21 55.7	29/12/14 6:26 56.8	30/12/14 23:31 58.9
25/12/14 2:11	58.5	26/12/14 3:16 55.1	27/12/14 4:21 55.6	28/12/14 5:26 56.1	29/12/14 6:31 56.5	30/12/14 23:36 58.7
25/12/14 2:16	56.8	26/12/14 3:21 55.2	27/12/14 4:26 55.4	28/12/14 5:31 55.0	29/12/14 6:36 56.6	30/12/14 23:41 48.8
25/12/14 2:21	56.9	26/12/14 3:26 55.0	27/12/14 4:31 54.8	28/12/14 5:36 54.8	29/12/14 6:41 57.2	30/12/14 23:46 58.2
25/12/14 2:26	56.3	26/12/14 3:31 54.9	27/12/14 4:36 55.1	28/12/14 5:41 57.3	29/12/14 6:46 58.0	30/12/14 23:51 56.7
25/12/14 2:31	56.6	26/12/14 3:36 54.6	27/12/14 4:41 55.3	28/12/14 5:46 56.3	29/12/14 6:51 58.2	30/12/14 23:56 57.0
25/12/14 2:36	56.9	26/12/14 3:41 54.6	27/12/14 4:46 55.4	28/12/14 5:51 55.0	29/12/14 6:56 58.2	31/12/14 0:01 56.7
25/12/14 2:41	56.1	26/12/14 3:46 54.5	27/12/14 4:51 55.3	28/12/14 5:56 55.4	29/12/14 23:01 61.8	31/12/14 0:06 58.5
25/12/14 2:46	55.7	26/12/14 3:51 54.3	27/12/14 4:56 55.0	28/12/14 6:01 55.5	29/12/14 23:06 52.7	31/12/14 0:11 54.9
25/12/14 2:51	55.7	26/12/14 3:56 54.8	27/12/14 5:01 55.7	28/12/14 6:06 56.0	29/12/14 23:11 60.2	31/12/14 0:16 56.3
25/12/14 2:56	56.0	26/12/14 4:01 55.1	27/12/14 5:06 56.0	28/12/14 6:11 55.8	29/12/14 23:16 59.9	31/12/14 0:21 57.0
25/12/14 3:01	56.0	26/12/14 4:06 55.1	27/12/14 5:11 56.0	28/12/14 6:16 55.3	29/12/14 23:21 60.0	31/12/14 0:26 57.6
25/12/14 3:06	55.9	26/12/14 4:11 55.1	27/12/14 5:16 56.4	28/12/14 6:21 58.8	29/12/14 23:26 60.2	31/12/14 0:31 56.5
25/12/14 3:11	56.9	26/12/14 4:16 56.4	27/12/14 5:21 56.2	28/12/14 6:26 55.0	29/12/14 23:31 58.5	31/12/14 0:36 59.0
25/12/14 3:16	55.7	26/12/14 4:21 54.9	27/12/14 5:26 56.0	28/12/14 6:31 56.3	29/12/14 23:36 57.7	31/12/14 0:41 57.3
25/12/14 3:21	56.1	26/12/14 4:26 55.3	27/12/14 5:31 56.8	28/12/14 6:36 56.2	29/12/14 23:41 57.7	31/12/14 0:46 59.4
25/12/14 3:26	55.3	26/12/14 4:31 54.5	27/12/14 5:36 56.6	28/12/14 6:41 55.9	29/12/14 23:46 58.1	31/12/14 0:51 57.3
25/12/14 3:31	55.5	26/12/14 4:36 54.7	27/12/14 5:41 56.2	28/12/14 6:46 56.3	29/12/14 23:51 58.8	31/12/14 0:56 57.1
25/12/14 3:36	55.8	26/12/14 4:41 54.6	27/12/14 5:46 55.7	28/12/14 6:51 56.3	29/12/14 23:56 57.3	31/12/14 1:01 56.2
25/12/14 3:41	55.1	26/12/14 4:46 55.1	27/12/14 5:51 56.9	28/12/14 6:56 56.5	30/12/14 0:01 57.4	31/12/14 1:06 56.6
25/12/14 3:46	55.3	26/12/14 4:51 55.2	27/12/14 5:56 57.6	28/12/14 23:01 56.5	30/12/14 0:06 55.6	31/12/14 1:11 57.5
25/12/14 3:51	55.9	26/12/14 4:56 54.8	27/12/14 6:01 57.2	28/12/14 23:06 58.8	30/12/14 0:11 55.3	31/12/14 1:16 57.9
25/12/14 3:56	55.0	26/12/14 5:01 55.0	27/12/14 6:06 57.2	28/12/14 23:11 59.3	30/12/14 0:16 56.3	31/12/14 1:21 56.5
25/12/14 4:01	56.9	26/12/14 5:06 55.0	27/12/14 6:11 56.1	28/12/14 23:16 59.0	30/12/14 0:21 56.0	31/12/14 1:26 56.0
25/12/14 4:06	55.7	26/12/14 5:11 55.8	27/12/14 6:16 57.0	28/12/14 23:21 60.0	30/12/14 0:26 55.6	31/12/14 1:31 56.2
25/12/14 4:11	56.1	26/12/14 5:16 59.5	27/12/14 6:21 56.9	28/12/14 23:26 59.6	30/12/14 0:31 56.3	31/12/14 1:36 55.2
25/12/14 4:16	55.6	26/12/14 5:21 56.0	27/12/14 6:26 57.4	28/12/14 23:31 60.2	30/12/14 0:36 59.5	31/12/14 1:41 55.6
25/12/14 4:21	55.3	26/12/14 5:26 55.3	27/12/14 6:31 56.7	28/12/14 23:36 58.2	30/12/14 0:41 56.5	31/12/14 1:46 55.4
25/12/14 4:26	55.5	26/12/14 5:31 56.4	27/12/14 6:36 57.2	28/12/14 23:41 59.4	30/12/14 0:46 56.9	31/12/14 1:51 56.0
25/12/14 4:31	54.8	26/12/14 5:36 57.4	27/12/14 6:41 56.4	28/12/14 23:46 57.7	30/12/14 0:51 55.8	31/12/14 1:56 55.4
25/12/14 4:36	54.6	26/12/14 5:41 55.8	27/12/14 6:46 58.1	28/12/14 23:51 58.6	30/12/14 0:56 56.7	31/12/14 2:01 55.8
25/12/14 4:41	55.1	26/12/14 5:46 56.2	27/12/14 6:51 58.5	28/12/14 23:56 53.9	30/12/14 1:01 55.6	31/12/14 2:06 58.7
25/12/14 4:46	55.2	26/12/14 5:51 58.1	27/12/14 6:56 58.8	29/12/14 0:01 58.4	30/12/14 1:06 56.1	31/12/14 2:11 54.9
25/12/14 4:51	54.9	26/12/14 5:56 56.4	27/12/14 23:01 56.8	29/12/14 0:06 56.3	30/12/14 1:11 56.3	31/12/14 2:16 55.0
25/12/14 4:56	58.0	26/12/14 6:01 56.5	27/12/14 23:06 59.8	29/12/14 0:11 57.5	30/12/14 1:16 56.0	31/12/14 2:21 57.7
25/12/14 5:01	56.3	26/12/14 6:06 57.5	27/12/14 23:11 59.8	29/12/14 0:16 58.8	30/12/14 1:21 55.8	31/12/14 2:26 54.8
25/12/14 5:06	55.0	26/12/14 6:11 57.3	27/12/14 23:16 48.8	29/12/14 0:21 58.5	30/12/14 1:26 56.8	31/12/14 2:31 54.9
25/12/14 5:11	55.6	26/12/14 6:16 58.4	27/12/14 23:21 59.9	29/12/14 0:26 55.9	30/12/14 1:31 55.2	31/12/14 2:36 55.4
25/12/14 5:16	55.1	26/12/14 6:21 57.4	27/12/14 23:26 59.8	29/12/14 0:31 56.2	30/12/14 1:36 55.6	31/12/14 2:41 54.5
25/12/14 5:21	55.6	26/12/14 6:26 56.5	27/12/14 23:31 59.5	29/12/14 0:36 56.2	30/12/14 1:41 55.4	31/12/14 2:46 55.4
25/12/14 5:26	55.6	26/12/14 6:31 57.5	27/12/14 23:36 59.7	29/12/14 0:41 56.7	30/12/14 1:46 55.5	31/12/14 2:51 55.2
25/12/14 5:31	55.8		27/12/14 23:41 59.0	29/12/14 0:46 56.0	30/12/14 1:51 54.7	31/12/14 2:56 56.0
25/12/14 5:36	48.8	26/12/14 6:41 57.6	27/12/14 23:46 59.7	29/12/14 0:51 59.8	30/12/14 1:56 54.6	31/12/14 3:01 55.3
25/12/14 5:41	55.7	26/12/14 6:46 57.5	27/12/14 23:51 58.9	29/12/14 0:56 59.4	30/12/14 2:01 55.0	31/12/14 3:06 54.4
25/12/14 5:46	57.3	26/12/14 6:51 56.6	27/12/14 23:56 58.9	29/12/14 1:01 55.3	30/12/14 2:06 55.0	31/12/14 3:11 55.1
25/12/14 5:51	56.0	26/12/14 6:56 56.5	28/12/14 0:01 59.1	29/12/14 1:06 55.8	30/12/14 2:11 55.2	31/12/14 3:16 54.7
25/12/14 5:56	57.9	26/12/14 23:01 56.8	28/12/14 0:06 59.2	29/12/14 1:11 55.6	30/12/14 2:16 54.9	31/12/14 3:21 54.6
25/12/14 6:01	56.6	26/12/14 23:06 59.1	28/12/14 0:11 58.7	29/12/14 1:16 55.4	30/12/14 2:21 55.1	31/12/14 3:26 54.3
25/12/14 6:06	56.4	26/12/14 23:11 58.8	28/12/14 0:16 52.7	29/12/14 1:21 54.5	30/12/14 2:26 55.8	31/12/14 3:31 55.1

	e Monitoring Data	ACL3 (City Hall)
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31/12/14 3:41	55.9	
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31/12/14 3:51	54.6	
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31/12/14 4:06	54.9	
31/12/14 4:11	54.9	
31/12/14 4:16	54.9	
31/12/14 4:21	54.5	
31/12/14 4:26	57.0	
31/12/14 4:31	54.1	
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31/12/14 5:51	57.6	
31/12/14 5:56	58.1	
31/12/14 6:01	57.0	
31/12/14 6:06	57.2	
31/12/14 6:11	57.0	
31/12/14 6:16	57.3	
31/12/14 6:21	57.7	
31/12/14 6:26	58.2	
31/12/14 6:31	57.4	
31/12/14 6:36	58.8	
31/12/14 6:41	58.4	
31/12/14 6:46 31/12/14 6:51	51.2	
31/12/14 6:56	59.5	
31/12/14 0:50	59.3 68.7	
31/12/14 23:06		
31/12/14 23:06	67.6 68.6	
31/12/14 23:16	69.8	
31/12/14 23:16	70.0	
31/12/14 23:26	70.6	
31/12/14 23:31	71.6	
31/12/14 23:36	73.2	
31/12/14 23:41	70.0	
31/12/14 23:46	69.7	
31/12/14 23:51	68.4	
31/12/14 23:56	78.2	
2127.1.20.00		





After checking with Contractor of HK/2012/08, diaphragm wall construction and socket H-piling were conducted on 8, 20, 23, 27, 29, 30 and 31 December 2014 while chilling plant maintenance and upgrading works (with use of circular steel cutter) was observed on-going at City Hall roof top location adjacent to the noise monitoring station in the reporting month. In view of the above, the exceedances were considered as non-projected and contributed by the maintenance works by City Hall

Appendix 5.3

Air Quality Monitoring Results and Graphical Presentations



Location: ACL1 - City Hall

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

Date	Sampling	Weather		i iitei vveigiit, g			Elapse Time, hr		Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m ³	μg/m³
2-Dec-14	8:00	Cloudy	010675	2.7940	2.9268	3658.48	3682.48	24.00	1.07	1.07	1.07	1541	86
8-Dec-14	8:00	Fine	010577	2.7249	2.8713	20458.06	20482.06	24.00	1.22	1.21	1.21	1750	84
13-Dec-14	8:00	Fine	010556	2.7334	2.9659	20485.19	20509.19	24.00	1.23	1.22	1.22	1762	132
19-Dec-14	8:00	Cloudy	010512	2.7194	2.8327	20512.19	20536.19	24.00	1.23	1.22	1.23	1764	64
23-Dec-14	8:00	Cloudy	010775	2.7216	2.8819	20539.18	20563.18	24.00	1.22	1.21	1.22	1754	91
29-Dec-14	8:00	Fine	010796	2.7294	2.8562	20566.18	20590.18	24.00	1.22	1.22	1.22	1761	72

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

Date	Sampling	Weather	Filter	i iitoi vvoigiit, g		Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, $Q_{\rm sf}$	Average	Volume, m ³	μg/m³
3-Dec-14	8:20	Cloudy	010696	2.7872	2.7922	3682.48	3683.48	1.00	1.00	1.00	1.00	60	83
3-Dec-14	9:45	Cloudy	010699	2.7760	2.7803	3683.48	3684.48	1.00	1.07	1.07	1.07	64	67
3-Dec-14	10:50	Cloudy	010702	2.7808	2.7857	3684.48	3685.48	1.00	1.07	1.07	1.07	64	77
9-Dec-14	8:46	Fine	010552	2.7572	2.7625	20482.07	20483.07	1.00	1.15	1.15	1.15	69	77
9-Dec-14	9:50	Fine	010555	2.7418	2.7499	20483.15	20484.15	1.00	1.21	1.21	1.21	73	111
9-Dec-14	11:00	Fine	009943	2.7285	2.7375	20484.15	20485.15	1.00	1.21	1.21	1.21	73	124
15-Dec-14	8:12	Fine	010434	2.7328	2.7373	20509.19	20510.19	1.00	1.15	1.15	1.15	69	65
15-Dec-14	9:15	Fine	010437	2.7428	2.7515	20510.19	20511.19	1.00	1.21	1.21	1.21	73	119
15-Dec-14	10:45	Fine	010440	2.7260	2.7338	20511.19	20512.19	1.00	1.21	1.21	1.21	73	107
20-Dec-14	8:35	Fine	010761	2.7216	2.7278	20536.19	20537.19	1.00	1.22	1.22	1.22	73	85
20-Dec-14	9:38	Fine	010764	2.7128	2.7165	20537.19	20538.19	1.00	1.22	1.22	1.22	73	50
20-Dec-14	10:45	Fine	010767	2.7174	2.7212	20538.19	20539.19	1.00	1.22	1.22	1.22	73	52
24-Dec-14	8:45	Cloudy	010513	2.7197	2.7233	20563.18	20564.18	1.00	1.21	1.21	1.21	73	49
24-Dec-14	9:50	Cloudy	010507	2.7430	2.7511	20564.18	20565.18	1.00	1.21	1.21	1.21	73	111
24-Dec-14	10:55	Cloudy	010793	2.7205	2.7265	20565.18	20566.18	1.00	1.21	1.21	1.21	73	82
30-Dec-14	8:25	Fine	010944	2.7590	2.7698	20590.18	20591.18	1.00	1.22	1.22	1.22	73	147
30-Dec-14	9:30	Fine	010947	2.7675	2.7711	20591.18	20592.18	1.00	1.22	1.22	1.22	73	49
30-Dec-14	10:35	Fine	010799	2.7136	2.7169	20592.18	20593.18	1.00	1.22	1.22	1.22	73	45



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

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

Date	Sampling	Weather		Filter Weigl	ht, g	Elapse Time, hr		Sampling	Flow Rate, m ³ /min			Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q _{sf}	Average	Volume, m	μg/m³
2-Dec-14	8:00	Cloudy	010686	2.7713	2.9004	2791.37	2815.37	24.00	1.07	1.06	1.06	1533	84
8-Dec-14	8:00	Fine	010449	2.7296	2.9304	2818.37	2842.37	24.00	1.19	1.19	1.19	1709	118
15-Dec-14	15:00	Fine	010581	2.7232	2.9849	2848.38	2872.38	24.00	1.19	1.19	1.19	1712	153
19-Dec-14	8:00	Cloudy	010755	2.7296	2.8378	2872.38	2896.38	24.00	1.22	1.22	1.22	1757	62
23-Dec-14	8:00	Cloudy	010730	2.7312	2.9325	2899.37	2923.37	24.00	1.22	1.21	1.21	1748	115
29-Dec-14	8:00	Fine	010829	2.7825	2.8923	2926.37	2950.37	24.00	1.22	1.22	1.22	1754	63

^{*} Due to interruption of electricity supply, the 24hr TSP was rescheduled from 13 December 2014 to 15 December 2014.

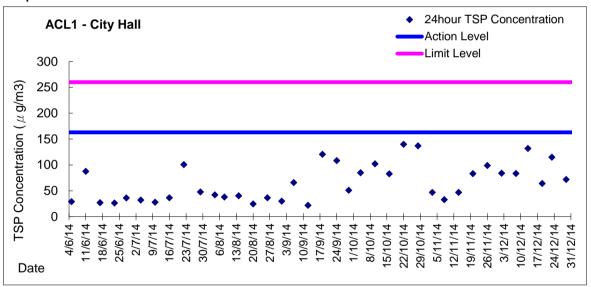
Report on 1-hour TSP monitoring Action Level (μ g/m3) - 300.1 Limit Level (μ g/m3) - 500

Date	Sampling	Weather	Filter	Filter Weig	ht, g	Elapse Tim	e, hr	Sampling	Flo	w Rate, m ³ /	min	Total	TSP Level,
	Time	Condition	paper no.	Initial	Final	Initial	Final	Time, hr	Initial, Q _{si}	Final, Q_{sf}	Average	Volume, m ³	μg/m³
3-Dec-14	9:31	Cloudy	010691	2.7813	2.7879	2815.37	2816.37	1.00	1.12	1.12	1.12	67	98
3-Dec-14	13:00	Cloudy	010693	2.7892	2.7947	2816.37	2817.37	1.00	1.12	1.12	1.12	67	82
3-Dec-14	14:18	Cloudy	010713	2.7683	2.7787	2817.37	2818.37	1.00	1.25	1.25	1.25	75	139
9-Dec-14	8:30	Fine	010648	2.7895	2.8012	2842.37	2843.37	1.00	1.19	1.19	1.19	71	164
9-Dec-14	9:45	Fine	010651	2.7985	2.8083	2843.37	2844.37	1.00	1.19	1.19	1.19	71	138
9-Dec-14	10:56	Fine	010559	2.7506	2.7686	2844.37	2845.37	1.00	1.19	1.19	1.19	71	253
15-Dec-14	9:30	Fine	010772	2.7038	2.7114	2845.37	2846.37	1.00	1.19	1.19	1.19	71	107
15-Dec-14	10:36	Fine	010583	2.7293	2.7401	2846.37	2847.37	1.00	1.19	1.19	1.19	71	152
15-Dec-14	13:00	Fine	010582	2.7300	2.7409	2847.37	2848.37	1.00	1.19	1.19	1.19	71	153
20-Dec-14	8:55	Fine	010728	2.7132	2.7196	2896.38	2897.38	1.00	1.22	1.22	1.22	73	88
20-Dec-14	9:57	Fine	010787	2.7080	2.7146	2897.38	2898.38	1.00	1.22	1.22	1.22	73	90
20-Dec-14	10:59	Fine	010729	2.7549	2.7613	2898.38	2899.38	1.00	1.22	1.22	1.22	73	88
24-Dec-14	9:10	Cloudy	010820	2.7774	2.7832	2923.37	2924.37	1.00	1.21	1.21	1.21	73	80
24-Dec-14	13:00	Cloudy	010823	2.7648	2.7712	2924.37	2925.37	1.00	1.21	1.21	1.21	73	88
24-Dec-14	14:05	Cloudy	010827	2.7614	2.7704	2925.37	2926.37	1.00	1.21	1.21	1.21	73	124
30-Dec-14	8:28	Fine	010969	2.7738	2.7808	2950.37	2951.37	1.00	1.22	1.22	1.22	73	96
30-Dec-14	13:00	Fine	010966	2.7709	2.7785	2951.37	2952.37	1.00	1.22	1.22	1.22	73	104
30-Dec-14	14:05	Fine	010803	2.7266	2.7346	2952.37	2953.37	1.00	1.22	1.22	1.22	73	110



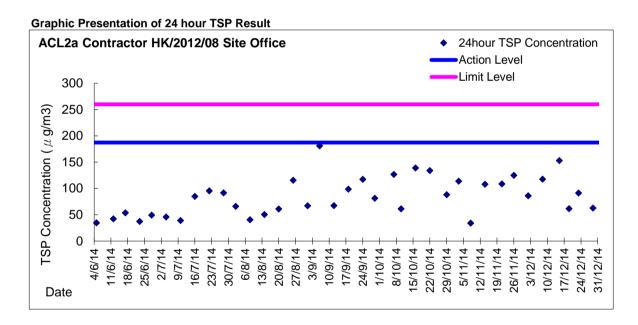
Graphic Presentation of 1 hour TSP Result 1hour TSP Concentration **ACL1 - City Hall** Action Level Limit Level 500 TSP Concentration (µg/m3) 400 300 200 100 0 13/8/14 -20/8/14 -27/8/14 -17/9/14 -24/9/14 -1/10/14 -8/10/14 22/10/14 -10/12/14 23/7/14 29/10/14 5/11/14 12/11/14 19/11/14 26/11/14 6/8/14 3/9/14 10/9/14 15/10/14 30/7/14 Date

Graphic Presentation of 24 hour TSP Result





Graphic Presentation of 1 hour TSP Result 1hour TSP Concentration ACL2a - Contractor HK/2012/08 Site Office Action Level Limit Level 500 TSP Concentration (µg/m3) 400 300 200 100 4/6/14 0 27/8/14 -17/9/14 -29/10/14 -5/11/14 -12/11/14 18/6/14 3/9/14 24/9/14 1/10/14 8/10/14 11/6/14 25/6/14 23/7/14 30/7/14 13/8/14 20/8/14 10/9/14 15/10/14 22/10/14 19/11/14 26/11/14 10/12/14 17/12/14 6/8/14 3/12/14 Date



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	Samplin	•	Wat	er Temp	erature		pH -			Salini	ту	D	O Satur	ation		DO mg/L			Turbid NTU			led Solids g/L
			ı	n	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
1/12/14	14:15	Cloudy	Middle	3.0	22.40	22.40	22.40	8.12	8.12	8.13	32.16	32.16	32.18	88.5	88.7	88.7	6.38	6.39	6.39	5.49	5.37	5.37	7	7.00
	14:17		Middle	3.0	22.40	22.40		8.13	8.13		32.19	32.19		89.2	88.4		6.42	6.37		5.30	5.30		7	
3/12/14	14:57	Cloudy	Middle	3.0	22.00	22.00	21.95	8.14	8.14	8.14	32.19	32.19	32.20	84.2	84.1	83.8	6.11	6.11	6.08	4.01	4.01	4.02	5	4.00
	14:59		Middle	3.0	21.90	21.90		8.14	8.14		32.20	32.20		83.6	83.1		6.07	6.04		4.02	4.04		3	
5/12/14	16:10	Fine	Middle	3.5	20.80	20.80	20.70	8.20	8.20	8.20	32.19	32.19	32.20	83.1	83.8	83.5	6.17	6.22	6.20	2.85	2.83	2.86	4	3.50
	16:12		Middle	3.5	20.60	20.60		8.19	8.19		32.21	32.21		83.7	83.4		6.22	6.20		2.84	2.91		3	
8/12/14	10:20	Fine	Middle	3.0	20.70	20.70	20.65	8.17	8.17	8.17	32.17	32.17	32.18	82.8	81.8	80.8	6.16	6.08	6.01	3.00	3.00	2.99	3	3.00
	10:22		Middle	3.0	20.60	20.60		8.17	8.17		32.19	32.19		80.5	77.9		5.99	5.79		2.99	2.96		3	
10/12/14	8:30	Cloudy	Middle	3.0	20.60	20.60	20.55	8.19	8.19	8.19	32.34	32.34	32.30	84.9	84.4	85.1	6.32	6.28	6.34	3.51	3.43	3.45	5	4.50
10/12/14	8:32	Cloudy	Middle	3.0	20.50	20.50	20.55	8.19	8.19	0.19	32.25	32.25	32.30	85.6	85.5	05.1	6.37	6.37	0.54	3.43	3.43	5.45	4	4.50
12/12/14	10:45	Fine	Middle	3.0	19.50	19.50	19.50	8.20	8.20	0.00	32.14	32.14	32.14	82.4	84.0	00.7	6.27	6.39	C 20	3.53	3.60	2.50	3	3.50
12/12/14	10:47	Fine	Middle	3.0	19.50	19.50	19.50	8.20	8.20	8.20	32.14	32.14	32.14	84.8	83.6	83.7	6.48	6.37	6.38	3.64	3.60	3.59	4	3.50
45/40/44	12:45	Fire.	Middle	3.5	20.30	20.30	00.00	8.17	8.17	0.47	32.04	32.04	00.04	82.1	81.9	00.4	6.14	6.13	0.44	8.97	8.96	0.04	3	0.50
15/12/14	12:47	Fine	Middle	3.5	20.30	20.30	20.30	8.17	8.17	8.17	32.04	32.04	32.04	82.2	82.1	82.1	6.15	6.14	6.14	8.96	8.88	8.94	2	2.50
17/12/14	11:50	Fine	Middle	3.0	18.20	18.20	18.15	8.21	8.21	8.22	31.89	31.89	31.90	86.9	86.9	87.4	6.72	6.72	6.79	4.02	4.01	4.01	<2	2.00
17/12/14	11:52	FILLE	Middle	3.0	18.10	18.10	10.15	8.22	8.22	0.22	31.91	31.91	31.90	88.1	87.7	07.4	6.88	6.85	0.79	4.00	4.00	4.01	2	2.00
19/12/14	16:10	Cloudy	Middle	3.0	18.00	18.00	17.90	8.24	8.24	8.26	31.91	31.91	31.92	88.3	88.4	88.7	6.93	6.94	6.96	3.08	3.11	3.12	4	4.00
13/12/14	16:12	Cloudy	Middle	3.0	17.80	17.80	17.30	8.27	8.27	0.20	31.92	31.92	31.32	88.8	89.2	00.7	6.97	6.99	0.50	3.13	3.16	0.12	4	4.00
22/42/44	8:43	Fine	Middle	3.5	16.40	16.40	40.05	8.27	8.27	8.27	31.67	31.67	24.60	83.9	85.4	04.0	6.79	6.91	6.07	3.55	3.52	2.40	<2	.0
22/12/14	8:45	Fine	Middle	3.5	16.30	16.30	16.35	8.27	8.27	0.27	31.68	31.68	31.68	85.2	84.7	84.8	6.90	6.86	6.87	3.47	3.42	3.49	<2	<2
04/40/44	10:40	Fire.	Middle	3.0	19.00	19.00	40.05	8.22	8.22	0.00	31.76	31.76	04.70	87.2	86.9	07.0	6.70	6.67	0.70	3.04	3.04	0.04	4	4.50
24/12/14	10:42	Fine	Middle	3.0	19.10	19.10	19.05	8.22	8.22	8.22	31.76	31.76	31.76	87.4	87.3	87.2	6.71	6.70	6.70	3.04	3.03	3.04	5	4.50
	7:35		Middle	3.0	18.10	18.10		8.01	8.01		31.54	31.54		76.4	76.8		6.09	6.11		1.58	1.54		<2	_
26/12/14	7:36	Cloudy	Middle	3.0	18.10	18.10	18.10	8.01	8.01	8.01	31.55	31.55	31.55	77.2	77.3	76.9	6.15	6.16	6.13	1.60	2.02	1.69	<2	<2
00/40/44	13:55	Fin.	Middle	3.0	18.00	18.00	40.05	8.20	8.20	0.00	31.53	31.53	04.54	82.0	83.2	00.0	6.42	6.51	0.55	2.80	2.81	0.04	3	0.50
29/12/14	13:57	Fine	Middle	3.0	18.10	18.10	18.05	8.20	8.20	8.20	31.54	31.54	31.54	83.9	85.3	83.6	6.61	6.67	6.55	2.81	2.80	2.81	2	2.50
24/42/44	11:40	Ein -	Middle	3.0	18.10	18.10	40.40	8.11	8.11	0.40	31.60	31.60	24.04	77.7	78.2	70.4	6.07	6.11	0.40	6.01	6.08	0.00	6	6.50
31/12/14	11:42	Fine	Middle	3.0	18.10	18.10	18.10	8.12	8.12	8.12	31.61	31.61	31.61	78.2	78.1	78.1	6.11	6.11	6.10	6.02	6.02	6.03	7	6.50



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

Date	Time	Weater Condition	Samplin	g Depth	Wat	er Temp °C	erature		рН			Salinit	у	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	
		Condition	n	า	Va	lue	Average	Va	lue -	Average	Va	ppt alue	Average	Va	ılue	Average	Va		Average	Va	alue	Average	Value	Average
1/12/14	21:36	Claudia	Middle	3.0	22.30	22.30	22.30	7.63	7.63	7.64	31.60	31.60	31.61	94.3	92.2	93.0	8.12	7.94	8.01	9.53	9.21	9.25	2	3.00
1/12/14	21:37	Cloudy	Middle	3.0	22.30	22.30	22.30	7.64	7.64	7.04	31.61	31.61	31.01	92.8	92.6	93.0	7.99	7.97	6.01	9.15	9.10	9.20	4	3.00
3/12/14	10:05	Cloudy	Middle	3.0	21.60	21.60	21.55	8.19	8.19	8.19	32.25	32.25	32.26	88.5	87.6	88.0	6.47	6.40	6.43	3.29	3.29	3.29	3	3.00
3/12/14	10:07	Cloudy	Middle	3.0	21.50	21.50	21.55	8.19	8.19	0.19	32.27	32.27	32.26	87.6	88.3	00.0	6.40	6.45	0.43	3.28	3.29	3.29	3	3.00
5/12/14	10:40	Cloudy	Middle	3.0	20.30	20.30	20.20	8.21	8.21	8.22	32.21	32.21	32.23	90.4	90.8	89.8	6.78	6.80	6.73	4.02	4.00	3.98	4	4.00
3/12/14	10:42	Cloudy	Middle	3.0	20.10	20.10	20.20	8.22	8.22	0.22	32.25	32.25	32.23	89.3	88.5	09.0	6.70	6.64	0.73	4.00	3.91	3.90	4	4.00
8/12/14	1:36	Cloudy	Middle	3.0	19.60	19.60	19.60	8.03	8.03	8.04	31.57	31.57	31.58	93.1	93.8	93.4	7.08	7.14	7.11	5.34	5.68	5.59	3	3.00
0/12/14	1:37	Cloudy	Middle	3.0	19.60	19.60	19.00	8.05	8.05	0.04	31.58	31.58	31.30	93.2	93.5	93.4	7.09	7.11	7.11	5.73	5.60	3.39	3	3.00
10/12/14	5:15	Cloudy	Middle	3.0	20.20	20.20	20.20	7.63	7.64	7.64	32.41	32.41	32.41	93.5	92.2	93.1	7.03	6.93	6.91	2.32	2.44	2.47	2	2.00
10/12/14	5:16	Cloudy	Middle	3.0	20.20	20.20	20.20	7.64	7.64	7.04	32.40	32.40	32.41	94.3	92.5	93.1	7.09	6.59	0.91	2.84	2.26	2.47	2	2.00
12/12/14	3:31	Cloudy	Middle	3.0	19.30	19.30	19.35	8.01	8.01	8.02	31.90	31.90	31.91	93.5	94.2	93.8	7.12	7.18	7.15	1.74	1.94	1.85	5	5.50
12/12/14	3:32	Cloudy	Middle	3.0	19.40	19.40	19.55	8.03	8.03	0.02	31.91	31.91	31.91	93.9	93.6	93.0	7.16	7.14	7.13	1.88	1.84	1.03	6	3.30
15/12/14	6:52	Cloudy	Middle	3.0	19.00	19.00	19.00	7.92	7.92	7.93	32.16	32.16	32.16	90.5	91.0	91.4	6.94	6.99	7.01	1.86	1.52	1.63	<2	<2
13/12/14	6:53	Cloudy	Middle	3.0	19.00	19.00	13.00	7.94	7.94	7.55	32.16	32.16	32.10	91.7	92.3	31.4	7.04	7.07	7.01	1.49	1.66	1.05	<2	\Z
17/12/14	20:56	Fine	Middle	3.0	16.20	16.20	16.15	7.95	7.95	7.97	31.99	31.99	32.01	94.4	94.9	94.5	7.65	7.69	7.66	2.76	2.96	2.81	<2	<2
17/12/14	20:57	Tille	Middle	3.0	16.10	16.10	10.10	8.00	7.99	7.07	32.03	32.03	02.01	94.0	94.8	04.0	7.61	7.68	7.00	2.79	2.74	2.01	<2	
19/12/14	21:17	Cloudy	Middle	3.0	13.30	13.30	13.20	7.85	7.85	7.87	31.95	31.95	31.95	94.5	94.9	95.1	7.50	7.55	7.56	2.80	2.60	2.56	3	3.00
10/12/14	21:18	Cloudy	Middle	3.0	13.10	13.10	10.20	7.89	7.89	7.07	31.95	31.95	01.00	95.5	95.6	00.1	7.58	7.60	7.00	2.49	2.34	2.00	3	0.00
22/12/14	2:09	Cloudy	Middle	3.0	15.60	15.60	15.58	7.94	7.94	7.95	31.85	31.85	31.85	95.8	96.5	96.2	7.87	7.92	7.90	4.49	4.62	4.57	2	2.00
22/12/11	2:10	Cicaay	Middle	3.0	15.50	15.60	10.00	7.95	7.95	7.00	31.84	31.84	01.00	96.4	96.1	00.2	7.92	7.89	7.00	4.60	4.57		<2	2.00
24/12/14	3:05	Cloudy	Middle	3.0	17.60	17.60	17.55	7.82	7.82	7.83	30.25	30.25	30.45	89.9	90.1	89.6	7.16	7.18	7.13	2.44	2.38	2.40	3	3.00
E-7/12/1-	3:06	Cioday	Middle	3.0	17.50	17.50	17.00	7.83	7.84	7.00	30.64	30.64	00.40	89.3	89.1	00.0	7.10	7.09	7.10	2.53	2.26	2.40	3	0.00
26/12/14	1:20	Cloudy	Middle	3.5	17.20	17.20	17.20	7.97	7.97	7.97	31.65	31.65	31.65	94.4	94.6	94.1	7.50	7.52	7.47	2.48	2.50	2.52	4	4.00
20/12/17	1:21	Cioday	Middle	3.5	17.20	17.20	17.20	7.97	7.97	7.07	31.64	31.64	01.00	94.0	93.2	O-T. 1	7.46	7.41		2.58	2.52	2.02	4	4.00
29/12/14	5:05	Cloudy	Middle	3.5	14.90	14.90	14.90	7.74	7.74	7.75	31.51	31.51	31.51	97.6	97.9	97.6	8.14	8.16	8.14	1.68	1.57	1.60	2	2.00
20/12/14	5:06	Cioday	Middle	3.5	14.90	14.90	14.00	7.75	7.75	7.70	31.51	31.51	01.01	97.7	97.2	57.5	8.15	8.11	0.17	1.55	1.60	1.00	2	2.00
31/12/14	18:56	Fine	Middle	3.0	17.60	17.60	17.60	8.13	8.13	8.13	31.06	31.06	31.06	75.6	74.7	74.2	5.99	5.91	5.87	3.35	3.35	3.33	4	3.50
J., 12/17	18:58		Middle	3.0	17.60	17.60		8.11	8.13	3.10	31.06	31.06	000	73.6	72.9	2	5.81	5.77	5.51	3.30	3.32	3.30	3	0.50



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

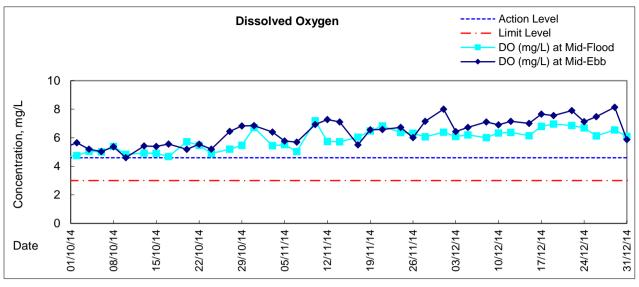
Date	Time	Weater Condition	•	g Depth	Wat	er Temp °C	erature		pH -			Salinit	ту	D	O Satur	ation		DO mg/L			Turbid NTU		Suspend	ed Solids
		Corramon	r	n	Va	lue	Average	Va	lue	Average	Va		Average	Va	lue	Average	Va	lue	Average	Va	lue	Average		Average
1/12/14	14:10	Cloudy	Middle	3.5	22.50	22.50	22.45	8.13	8.13	8.13	32.10	32.10	32.10	81.0	80.6	80.2	5.83	5.80	5.77	4.15	4.14	4.14	5	4.50
	14:12		Middle	3.5	22.40	22.40		8.12	8.12		32.10	32.10		80.0	79.1		5.76	5.69		4.14	4.14		4	
3/12/14	15:01	Cloudy	Middle	3.0	21.50	21.50	21.45	8.15	8.15	8.16	32.08	32.08	32.09	78.5	80.2	80.0	5.75	5.83	5.85	4.01	3.91	3.91	4	4.00
	15:03		Middle	3.0	21.40	21.40		8.16	8.16		32.10	32.10		80.6	80.5		5.91	5.90		3.88	3.83		4	
5/12/14	16:15	Fine	Middle	3.0	20.60	20.60	20.60	8.09	8.09	8.07	28.53	28.53	28.54	71.2	72.3	71.6	5.41	5.49	5.44	10.89	10.91	10.90	6	6.50
3/12/14	16:17	TING	Middle	3.0	20.60	20.60	20.00	8.04	8.04	0.07	28.54	28.54	20.54	70.8	72.2	71.0	5.38	5.49	5.44	10.89	10.91	10.50	7	0.50
8/12/14	10:24	Fine	Middle	3.0	20.30	20.30	20.25	8.16	8.16	8.14	28.51	28.51	28.51	72.9	73.3	72.7	5.58	5.61	5.56	9.86	9.86	9.56	7	7.00
5, 12, 1 1	10:26	0	Middle	3.0	20.20	20.20	20.20	8.11	8.11	5	28.50	28.50	20.01	72.8	71.7		5.57	5.49	0.00	9.17	9.34	0.00	7	1.00
10/12/14	8:35	Cloudy	Middle	2.5	20.40	20.40	20.40	8.20	8.20	8.20	32.15	32.15	32.15	88.9	89.4	88.9	6.64	6.68	6.64	4.56	4.30	4.50	6	5.50
10/12/14	8:37	Cloudy	Middle	2.5	20.40	20.40	20.40	8.20	8.20	0.20	32.15	32.15	32.13	88.6	88.7	00.9	6.62	6.62	0.04	4.53	4.62	4.50	5	5.50
12/12/14	10:50	Fine	Middle	2.5	19.80	19.80	19.50	8.19	8.19	8.19	31.93	31.93	31.94	83.3	84.3	84.1	6.38	6.44	6.43	3.59	3.61	3.63	3	3.00
12/12/14	10:52	FILLE	Middle	2.5	19.20	19.20	19.50	8.19	8.19	0.19	31.94	31.94	31.94	84.0	84.6	04.1	6.42	6.47	0.43	3.63	3.67	3.03	3	3.00
15/12/14	12:50	Fine	Middle	3.5	20.30	20.30	20.15	8.19	8.19	8.19	31.84	31.84	31.86	81.6	81.6	81.6	6.16	6.16	6.17	10.31	10.34	10.35	2	2.00
13/12/14	12:52	1 1110	Middle	3.5	20.00	20.00	20.13	8.19	8.19	0.19	31.88	31.88	31.00	81.2	82.1	01.0	6.15	6.21	0.17	10.37	10.37	10.55	<2	2.00
17/12/14	11:56	Fine	Middle	2.5	18.00	18.00	18.00	8.16	8.16	8.13	28.02	28.02	28.03	75.6	77.4	76.9	6.06	6.21	6.18	8.57	8.58	8.61	7	6.50
17/12/14	11:58	TING	Middle	2.5	18.00	18.00	10.00	8.10	8.10	0.15	28.03	28.03	20.03	77.3	77.4	70.5	6.21	6.22	0.10	8.62	8.67	0.01	6	0.50
19/12/14	16:14	Cloudy	Middle	2.5	17.70	17.70	17.70	8.28	8.28	8.28	31.78	31.78	31.79	86.6	86.2	86.1	6.82	6.78	6.78	3.82	3.63	3.74	3	3.00
10/12/14	16:16	Oloudy	Middle	2.5	17.70	17.70	17.70	8.28	8.28	0.20	31.79	31.79	01.70	86.0	85.7	00.1	6.77	6.75	0.70	3.76	3.76	0.14	3	0.00
22/12/14	8:35	Fine	Middle	3.0	16.70	16.70	16.65	8.28	8.28	8.28	31.71	31.71	31.72	85.9	86.3	85.7	6.90	6.94	6.89	3.67	3.73	3.74	<2	<2
22/12/14	8:37	TING	Middle	3.0	16.60	16.60	10.05	8.28	8.28	0.20	31.72	31.72	31.72	85.8	84.8	00.1	6.90	6.83	0.03	3.76	3.78	5.74	<2	\Z
24/12/14	10:45	Fine	Middle	2.5	18.50	18.50	18.55	8.23	8.23	8.23	31.66	31.66	31.66	84.7	85.5	85.3	6.56	6.63	6.61	3.05	3.04	3.04	4	3.50
24/12/14	10:47	TING	Middle	2.5	18.60	18.60	10.55	8.23	8.23	0.23	31.65	31.65	31.00	85.5	85.3	00.0	6.63	6.61	0.01	3.04	3.04	3.04	3	3.30
26/12/14	7:41	Claudy	Middle	2.5	17.50	17.50	17.50	8.06	8.06	8.06	29.39	29.39	29.39	72.5	72.4	70.0	5.82	5.81	5.80	4.83	4.87	4.90	4	4.50
20/12/14	7:42	Cloudy	Middle	2.5	17.50	17.50	17.50	8.06	8.06	0.00	29.39	29.39	29.39	71.9	72.1	72.2	5.77	5.78	ა.იი	4.94	4.97	4.90	5	4.50
29/12/14	14:00	Fine	Middle	2.5	18.50	18.50	18.55	8.18	8.18	8.18	31.57	31.57	31.57	84.8	85.2	85.0	6.57	6.60	6.58	2.94	2.94	2.94	3	2.50
20/12/17	14:02	1 1116	Middle	2.5	18.60	18.60	10.55	8.18	8.18	0.10	31.57	31.57	31.37	85.0	84.9	00.0	6.58	6.58	0.50	2.95	2.92	2.07	2	2.50
31/12/14	11:45	Fine	Middle	2.5	18.00	18.00	18.00	8.12	8.12	8.12	31.03	31.03	31.03	77.8	77.0	77.1	6.12	6.06	6.07	6.73	6.87	6.81	7	6.00
0.7.12,11	11:47		Middle	2.5	18.00	18.00		8.11	8.11	02	31.03	31.03	000	76.9	76.5		6.09	6.02	0.0.	6.84	6.79	0.0.	5	5.55

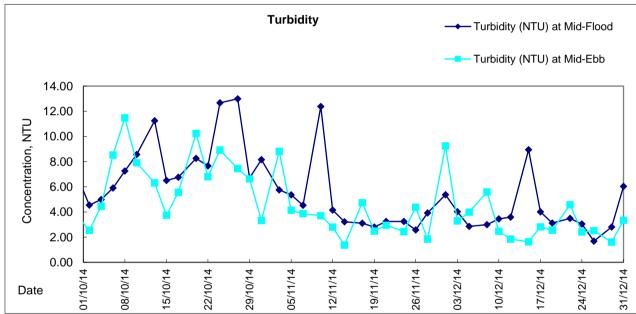


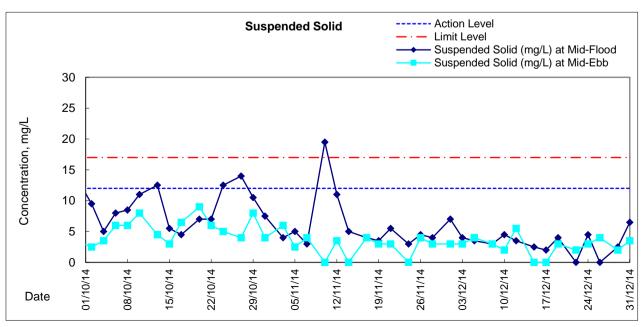
Water Monitoring Result at Culvert J - Reference Station Mid-Ebb Tide

Date	Time	Weater Condition		ng Depth	Wat	ter Temp	perature		pH -			Salini	ty	С	O Satur	ation		DO mg/L	,		Turbid NTU		Suspend	led Solids g/L
			ľ	n	Va	lue	Average	Va	lue	Average	Va	alue	Average	Va	lue	Average	Va	lue	Average	Va	lue	Average	Value	Average
1/12/14	21:43	Cloudy	Middle	3	22.40	22.40	22.40	7.82	7.82	7.81	29.57	29.57	29.56	39.6	39.9	40.2	2.60	2.92	2.87	10.29	10.49	10.40	6	5.50
	21:44	·	Middle	3	22.40	22.40		7.79	7.80		29.54	29.54		40.5	40.7		2.97	2.98		10.57	10.24		5	
3/12/14	10:11	Cloudy	Middle	3	21.70	21.70	21.65	8.15	8.15	8.14	30.77	30.77	30.77	81.2	80.7	81.3	5.97	5.94	5.99	3.22	3.21	3.22	4	3.50
	10:12	·	Middle	3	21.60	21.60		8.12	8.12		30.77	30.77		81.5	81.9		6.00	6.03		3.22	3.23		3	
5/12/14	10:45	Cloudy	Middle	3	20.20	20.20	20.15	8.21	8.21	8.21	32.04	32.04	32.04	81.7	82.1	82.1	6.13	6.17	6.17	5.22	5.24	5.24	4	3.50
	10:47	·	Middle	3	20.10	20.10		8.21	8.21		32.04	32.04		82.5	82.1		6.20	6.16		5.25	5.25		3	
8/12/14	1:45	Cloudy	Middle	3	20.10	20.10	20.10	8.16	8.16	8.16	25.57	25.57	25.57	62.3	62.9	62.8	4.87	4.92	4.91	10.26	10.49	10.46	8	7.50
	1:46	·	Middle	3	20.10	20.10		8.15	8.15		25.57	25.57		62.5	63.3		4.89	4.96		10.51	10.56		7	
10/12/14	5:23	Cloudy	Middle	3	20.40	20.60	20.55	7.85	7.85	7.85	30.82	30.82	30.85	79.8	79.7	78.8	5.98	5.98	5.87	5.56	5.24	5.54	5	5.50
	5:24	·	Middle	3	20.60	20.60		7.85	7.85		30.87	30.87		77.5	78.3		5.82	5.68		5.37	5.99		6	
12/12/14	3:40	Cloudy	Middle	3	20.20	20.20	20.15	8.06	8.06	8.06	27.64	27.64	27.64	68.7	69.5	69.1	5.29	5.36	5.33	11.37	10.91	11.36	6	5.50
	3:41	,	Middle	3	20.10	20.10		8.06	8.06		27.63	27.63		69.3	68.9		5.35	5.31		11.44	11.70		5	
15/12/14	7:04	Cloudy	Middle	3	19.30	19.30	19.25	7.96	7.96	7.94	27.56	27.56	27.56	61.5	61.5	61.5	4.83	4.83	4.83	4.03	4.01	3.87	3	2.50
	7:05	·	Middle	3	19.20	19.20		7.92	7.91		27.55	27.55		61.2	61.7		4.81	4.84		3.73	3.70		2	
17/12/14	21:05	Fine	Middle	3	16.50	16.50	16.50	7.79	7.79	7.78	28.08	28.08	28.08	76.9	77.3	77.1	6.36	6.39	6.36	10.12	10.00	9.98	6	5.50
	21:06		Middle	3	16.50	16.50		7.77	7.77		28.08	28.08		77.3	76.8		6.37	6.33		9.92	9.88		5	
19/12/14	21:25	Cloudy	Middle	3	13.40	13.40	13.40	7.98	7.98	7.98	23.58	23.60	23.60	40.2	41.5	41.6	3.35	3.46	3.47	10.58	11.54	10.85	18	18.00
	21:26		Middle	3	13.40	13.40		7.97	7.97		23.61	23.61		42.1	42.5		3.51	3.54		10.52	10.74		18	
22/12/14	2:16	Cloudy	Middle	3	16.20	16.20	16.15	8.03	8.03	8.03	28.40	28.51	29.01	80.1	80.3	80.3	6.58	6.60	6.60	9.80	9.73	9.67	5	4.00
	2:17		Middle	3	16.10	16.10		8.03	8.03		29.55	29.56		80.2	80.4		6.59	6.61		9.61	9.54		3	
24/12/14	3:11	Cloudy	Middle	3	17.80	17.80	17.80	7.85	7.85	7.85	27.62	27.65	27.64	46.0	46.5	46.3	3.70	3.75	3.73	31.70	33.84	32.26	10	9.50
	3:12		Middle	3	17.80	17.80		7.84	7.84		27.65	27.65		46.4	46.2		3.75	3.72		32.02	31.46		9	
26/12/14	1:30	Cloudy	Middle	3	18.10	18.10	18.10	7.98	7.98	7.99	28.25	28.25	28.26	77.5	74.9	76.3	6.19	5.98	6.09	6.94	6.68	6.71	2	2.00
	1:31		Middle	3	18.10	18.10		7.99	7.99		28.26	28.26		75.9	76.7		6.06	6.12		6.61	6.59		2	
29/12/14	5:14	Cloudy	Middle	3	15.50	15.50	15.50	7.88	7.88	7.88	28.57	28.57	28.58	69.5	70.5	70.6	5.83	5.92	5.92	8.57	8.50	8.38	3	3.00
	5:15		Middle	3	15.50	15.50		7.88	7.88		28.59	28.59		71.0	71.2		5.96	5.97		8.18	8.28		3	
31/12/14	18:52	Fine	Middle	3	17.80	17.80	17.80	8.12	8.12	8.13	31.59	31.59	31.58	82.6	81.5	79.0	6.49	6.40	6.36	2.94	2.94	2.96	2	2.00
	18:54		Middle	3	17.80	17.80		8.13	8.13		31.56	31.56		80.6	71.4		6.30	6.24		2.96	2.99		2	

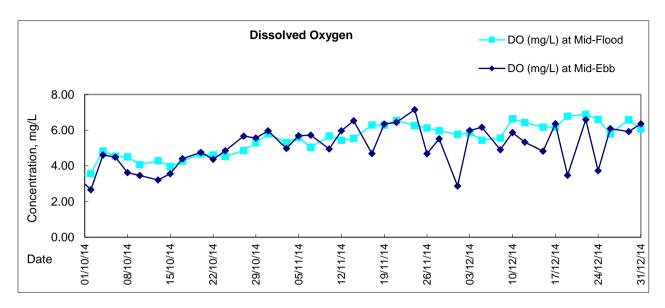
Graphic Presentation of Water Quality Result of M5B - Central Cooling Water Intake Groups

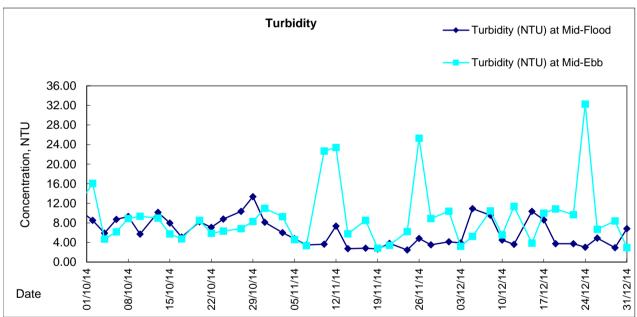


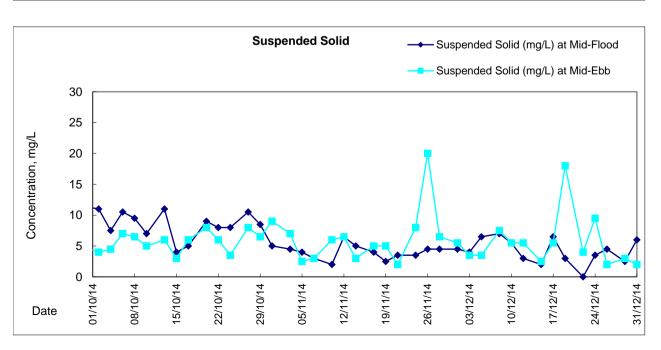












Appendix 6.1

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		ACTIO	ON	
	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		ACTIO	ON	
	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



Contract No. HK/2011/07
Wanchai Development Phase II and Central Wanchai Bypass
Sampling, Field Measurement and Testing Work (Stage 2)
Summary for Notification of Exceedance

Ref no.	Date	Tidal	Location	Parameters (Unit)	Measured	Action Level	Limit Level	Follow-up action	n
-		-	=	-	-	-	-	-	-

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
	-	-		•		

Appendix 10.1

Construction Programme of Individual Contracts

