Cheung Hing Construction Co. Ltd.

Contract No. SSW327

Reprovisioning of Cape Collinson Crematorium

Monthly Environmental and Audit Report October 2013

(Version1.0)

Approved By

Environmental Team Leader

REMARKS:

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

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EXECUTIVE SUMMARY

- 1. This is the 38th monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Ltd. for the Project "Phased Reprovisioning of Cape Collinson Crematorium". This report presents the findings of environmental auditing works conducted for Reprovision Cape Collinson Crematorium on October 2013.
- 2. The site activities undertaken in the reporting month was:
 - Demolition for existing crematorium building;
 - Soldier piling works at demolished crematorium building;
 - Slope stabilization works at Slope Feature No.1;
 - Pipe piling works at New Transformer Room; and
 - Concrete repairing works at existing Columbarium.

Environmental Monitoring and Audit Works

- 3. Environmental monitoring and audit works for the Project is stipulated in the approved EM&A Manual. Site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 4. Summary of the events and action taken in the reporting month is tabulated in **Table I**.

Table I Summary Table for Events Recorded in the Reporting Month

Parameter	No. of 1	No. of Events Due to the Projec			Action Taken	
	Action Level	Limit Level	Action Level	Limit Level		
Noise	0	0	0	0	0	
1-hr TSP	0	0	0	0	0	
24-hr TSP	0	0	0	0	0	

Construction Noise

5. All construction noise monitoring was conducted as scheduled in reporting month. No Action/Limit Level exceedance was recorded.

Air Quality

1-hour TSP Monitoring

6. All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

24-hour TSP Monitoring

7. All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Visual

8. The monthly monitoring of visual was conducted in October 2013. The purpose is to ensure the design of implementation and maintenance of visual mitigation measures that are fully required in according to EIA report.

Environmental Licenses and Permits

9. Licenses/Permits granted to the Project include the Environmental Permit (EP); Registered as Waste Producer under Waste Disposal (Chemical Waste) General) Regulation and Water Discharge Licence.

Key Information in the Reporting Month

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

Key Information in the EIA Report

11. According to the EIA Report, air quality, noise and visual would be the key environmental issues during the construction phase of the project. Details of the implementation of mitigation measures are provided in the **Appendix M**.

Table II Summary Table for Key Information in the Reporting Month

Event	Event Details		Action Taken	Status	Remark
Event	Number	Nature	Action Taken		
Complaint received	0		N/A	N/A	
Changes to the assumptions and key construction / operation activities recorded	0		N/A	N/A	
Status of	1	EM&A Monthly Report September 2013	Submitted to EPD On 23 th October 2013	N/A	
submissions under EP	1	DCM Confirmatory Report (version 2.0)	Submitted to EPD On 23 th October 2013	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

Future Key Issues:

Major site activities for the coming two months include:

- Piling works at demolished crematorium building;
- Soldier piling works at demolished crematorium building;
- Slope stabilization works at Slope Feature No.1;
- Excavation and lateral support works at New Transformer Room; and
- Concrete repairing works at existing Columbarium.

1 INTRODUCTION

Background

- 1.1 Food and Environmental Hygiene Department (FEHD) is the Project Proponent and is responsible for the operation of the project "Phased Reprovisioning of Cape Collinson Crematorium" (hereinafter called the Project) after completion of construction works, while Architectural Services Department (ArchSD) is the works agent for the project management and implementation of the project. The project was commissioned to Cheung Hing Construction Co. Ltd. (hereinafter called the "CH"). The scope of the Project includes the following works:
 - (i) Construct and operate 4 new cremators with ancillary facilities under Phase 1;
 - (ii) Demolition of the existing crematorium and the existing underground fuel tank under Phase 2; and
 - (iii) Construct and operate 6 new cremators with ancillary facilities under Phase 2.
- 1.2 An environmental impact assessment (EIA) report of the Phased Reprovisioning of Cape Collinson Crematorium (Register No. AEIAR-137/2009) has been prepared in March 2009 and the Environmental Monitoring and Audit Manual (Project's EM&A Manual) was also included as part of the EIA report in the register. An Environmental Permit No. EP-335/2009 was issued on 19 June 2009 for this Project to the Food and Environmental Hygiene Department as the Permit Holder. The site location is shown in **Figure 1**.
- 1.3 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the EM&A works for the Project. This is the 38th monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech for the Project on October 2013 in accordance with the approved EM&A Manual.

Project Organizations

- 1.4 Different parties with different levels of involvement in the project organization include:
 - Project Proponent Food and Environmental Hygiene Department (FEHD).
 - Works Agent Architectural Services Department (ArchSD).
 - Architect Representative (AR) Andrew Lee King Fun & Associates Architects Limited (ALKF).
 - Environmental Team (ET) Cinotech Consultants Limited (Cinotech).
 - Independent Environmental Checker (IEC) EDMS Consulting Limited (EDMS).
 - Main Contractor Cheung Hing Construction Co. Ltd. (CH).
- 1.5 The responsibilities of respective parties are detailed in Sections 1.15 to 1.20 of the EM&A Manual of the Project.
- 1.6 The key contacts of the Project are shown in **Table 1.1** and the organization chart of ET is shown in **Figure 5**.

Table 1.1 Key Project Contacts

Party	Role	Name	Position	Phone No.	Fax No.
	Mr. LS Tam Senior Project Manager		Senior Project Manager	2867 4120	2123 9024
ASD	Works Agent	Miss Denise Lo	Project Manager	2867 3723	2523 9622
		Mr. Yiu Hak Hung	ER/COW	2597 4408	2911 4706
	Architect	Mr. Andrew Lee	Managing Director	2525 0008	2868 5371
ALKF	Architect's	Mr. Franklin Yu	Project Architect	2901 0915	2000 33/1
ALKF Architect's Representative		Mr. Leung Pak Kuen	Resident Clerk of Works	2505 7210	2505 1586
	Environmental Team	Dr. Priscilla Choy	ET Leader	2151 2089	
Cinotech		Mr. Gary Lau	Project Coordinator & Audit Team Leader	2151 2098	3107 1388
		Mr. Henry Leung	Monitoring Team Leader	2151 2087	
EDMS Independent Environmental Checker		Mr. James Choi	Director	2230 7168	3007 8556
	H Main Contractor	Mr. Daniel Pong	General Manager	2572 2384	2572 2972
		Mr. Parker Pang	Director	2572 2384	2312 2912
СН		Mr. Dennis Ho	Site Agent	96723470	
		Mr. Kelvin Ip	Environmental Supervisor	61368190	2505 5130

Construction Programme

- 1.7 The site activities undertaken in the reporting month included:
 - Demolition for existing crematorium building;
 - Soldier piling works at demolished crematorium building;
 - Slope stabilization works at Slope Feature No.1;
 - Pipe piling works at New Transformer Room; and
 - Concrete repairing works at existing Columbarium.

Summary of EM&A Requirements

- 1.8 The EM&A programme requires construction phase monitoring for air quality, construction noise, visual and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
 - All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event Action Plans;
 - Environmental mitigation measures, as recommended in the project EIA study final report; and
 - Environmental requirements in contract documents.
- 1.9 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 5 of this report.

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1.10 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely dust, noise levels, visual and audit works conducted for the Project in October 2013.

2 AIR QUALITY

Monitoring Requirements

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

Monitoring Equipment

2.2 Both 1-hour TSP monitoring and continuous 24-hour TSP impact air quality monitoring were performed and complied with the specifications stipulated in the approved EM&A Manual. **Table 2.1** summarizes the equipment used in the impact air quality monitoring programme. Copies of the calibration certificates for the equipment are presented in **Appendix B**.

Table 2.1 Air Quality Monitoring Equipment

HVS Samplers	GMWS 2310 HVS, Model GS-2310105-1	
n v S Samplers	Tisch Environmental, Inc.; Model no. TE-5170	1
Laser Dust Meter	Sibata; Model no. LD-3B	5
Dust Meter	Met One Instruments; Model no. AEROCET-531	1
RS232 Integral Vane	AZ Instrument (Model No. AZ8904)	
Digital Anemometer	AZ IIIstrument (Woder No. AZ6904)	1
Calibrator	Tisch Environmental, Inc.; Model no. TE-5025A	

Monitoring Locations

2.3 Impact air quality monitoring was conducted at the 2 designated monitoring stations, as shown in **Figure 2**. **Table 2.2** describes the locations of the air quality monitoring stations.

Table 2.2 Air Quality Monitoring Locations

Monitoring Station	Description	Location of Measurement
AM1	Staff Quarters of Cape Collinson Crematorium	Ground
*AM2	King Tsui Court	Roof

Remarks: * with wind logger

Monitoring Parameters, Frequency and Duration

2.4 **Table 2.3** summarizes the monitoring parameters, monitoring period and frequencies of impact air quality monitoring.

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Table 2.3 Frequency and Parameters of Impact Air Quality Monitoring

Monitoring Station	Location for Measurement	Parameter	Period	Frequency
A N 1 1	Staff Quarters of Cape Collinson	1-hour TSP	0700-1900	3 times/6 days
AM1		24-hour TSP	24 hours	once/6 days
AM2	King Tsui Court	1-hour TSP	0700-1900	3 times/6 days
		24-hour TSP	24 hours	once/6 days

Monitoring Methodology and QA/QC Procedure

2.5 Weather data was recorded during the monitoring period and is shown in **Appendix H**. The data was obtained from the Meteorological Observations for King's Park Automatic Weather Station. The general weather conditions (i.e. sunny, cloudy or rainy) were recorded by the field staff's observation on the monitoring day.

Monitoring Methodology and QA/QC Procedure

1-hour TSP Monitoring

Measuring Procedures

- 2.6 The measuring procedures of the 1-hour dust meters were in accordance with the Manufacturer's Instruction Manual as follows:
 - Pull up the air sampling inlet cover
 - Change the Mode 0 to BG with once
 - Push Start/Stop switch once
 - Turn the knob to SENSI.ADJ and press it
 - Push Start/Stop switch once
 - Return the knob to the position MEASURE slowly
 - Push the timer set switch to set measuring time
 - Remove the cap and make a measurement

Maintenance/Calibration

- 2.7 The following maintenance/calibration was required for the direct dust meters:
 - Check the meter at a 3-month interval and calibrate the meter at a 1-year interval throughout all stages of the air quality monitoring.

24-hour TSP Monitoring Instrumentation

2.8 High volume (HVS) samplers (Model no. TE-5170 and GS-2310105-1) completed with appropriate sampling inlets were employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

Operating/Analytical Procedures

- 2.9 Operating/analytical procedures for the operation of HVS were as follows:
 - A horizontal platform was provided with appropriate support to secure the samplers against gusty wind.
 - No two samplers were placed less than 2 meters apart.
 - The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
 - A minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
 - A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
 - No furnaces or incineration flues were nearby.
 - Airflow around the sampler was unrestricted.
 - The sampler was more than 20 meters from the drip line.
 - Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- 2.10 Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 1.1 m³/min. and 1.4 m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.11 Fiberglass filters were used which have a collection efficiency of larger than 99% for particles of 0.3 μm diameter.
- 2.12 The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- 2.13 The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.14 The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- 2.15 The shelter lid was closed and secured with the aluminum strip.
- 2.16 The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- 2.17 After sampling, the filter was removed and sent to the laboratory for weighing. The elapsed time was also recorded.

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2.18 Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ± 3 °C; the relative humidity (RH) should be < 50% and not vary by more than ± 5 %. A convenient working RH is 40%.

Maintenance/Calibration

- 2.19 The following maintenance/calibration was required for the HVS:
 - The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
 - High volume samplers were calibrated at bi-monthly intervals using Calibration Kit (Thermo Andersen; Model no. G25A) throughout all stages of the air quality monitoring.

Results and Observations

- 2.20 All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. Summary of exceedance is presented in **Appendix I.**
- 2.21 All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. Summary of exceedance is presented in **Appendix I**.
- 2.22 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendices D** and **E** respectively.
- 2.23 According to our field observations, the identified dust sources at the monitoring stations were mainly the road dust.

3 NOISE

Monitoring Requirements

3.1 A noise monitoring station, namely M1 was designated in the EM&A Manual for impact monitoring. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

3.2 **Table 3.1** gives the location of the monitoring station, which is also shown in **Figure 3.**

Table 3.1 Location of Noise Monitoring Station

Monitoring Station	Description	Location of Measurement
M1	Staff Quarters of Cape Collinson Crematorium	Rooftop, facing Cape Collinson Crematorium

Monitoring Equipment

3.3 Integrating Sound Level Meter was used for noise monitoring. The meter is a Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x) and also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 3.2** summarizes the noise monitoring equipment being used. Copies of the calibration certificates for the sound level meter and calibrator are attached in **Appendix B**.

Table 3.2 Noise Monitoring Equipment

Equipment	Model and Make	Quantity
Integrating Sound Level Meter	SVAN 955	1
Calibrator	B&K 4231	1

Monitoring Parameters, Frequency and Duration

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

Table 3.3 Frequency and Parameters of Noise Monitoring

Monitoring Stations	Parameter	Period	Frequency	Measurement
M1	$\begin{array}{c} L_{10}(30 \text{ min.}) \\ dB(A) \\ L_{90}(30 \text{ min.}) \\ dB(A) \\ L_{eq}(30 \text{ min.}) \\ dB(A) \end{array}$	0700-1900 hrs. on weekdays	Once per week	Façade measurement

Monitoring Methodology and QA/QC Procedures

3.5 **Table 3.4** summarizes the types of measurement undertaken in the monitoring station.

Table 3.4 Type of Measurement

Monitoring Station	Measurement
M1	Façade measurement

3.6 Weather data was recorded during the Impact period and is presented in **Appendix H**.

Field Monitoring

- 3.7 The monitoring procedures are as follows:
 - The microphone of the sound level meter was positioned 1m exterior of the noise sensitive facade and lowered sufficiently so that the building's external wall acts as a reflecting surface.
 - The battery condition was checked to ensure good functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

frequency weighting : Atime weighting : Fast

- measurement time : 5 minutes (Leq (30-min) would be determined for daytime

noise by calculating the logarithmic average of six Leq

(5min) data.)

- Prior to and after noise measurement, the meter was calibrated using the calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement was required after re-calibration or repair of the equipment.
- The wind speed at the monitoring station was checked with the portable wind meter.
- Monitoring data was recorded and stored automatically within the sound level meter system. At the end of the monitoring period, noise levels in term of L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded when the equipment were checked and inspected every two days.
- All the monitoring data within the sound level meter system was downloaded through the computer software, and all these data was checked and reviewed within the computer.

Maintenance and Calibration

- 3.8 Maintenance and Calibration procedures were as follows:
 - The microphone of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
 - The sound level meter and calibrator were checked and calibrated at yearly intervals.
 - 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 levels from before and after the noise measurement agree to within 1.0 dB.

Results and Observations

- 3.9 All construction noise monitoring at designated location was conducted as scheduled in the reporting month.
- 3.10 No Action/Limit Level exceedance was recorded in the reporting month. Summary of exceedance is presented in **Appendix I**.
- 3.11 All the Construction Noise Levels (CNLs) reported in this report were adjusted with the corresponding baseline level (i.e. Measured Leq Baseline Leq = Measured CNL), in order to facilitate the interpretation of the noise exceedance. The baseline noise level and the allowed CNL (Limit Level) at each designated noise monitoring station are presented at **Table 3.5**.
- 3.12 All noise monitoring results and graphical presentations of the data are provided in **Appendix F**.

Table 3.5 Baseline Noise Level and Allowed Construction Noise Level for Monitoring Stations

Station	Baseline Noise Level, dB (A)	Limit Level, dB (A)
M1	54.4	75

4 VISUAL MONITORING

Monitoring Requirements

4.1 In accordance with the EM&A Manual, Visual Monitoring is required to be conducted monthly in construction phase for ensuring the design of implementation and maintenance of visual mitigation measures that are fully required in according to EIA report.

Construction Phase Audit Summary

- 4.2 The proposed and implementation status of visual mitigation measures in construction phase were shown in **Table 4.1**.
- 4.3 The reference photo for visual mitigation measures are shown in **Appendix G**.

Table 4.1 Proposed and Implementation Status of Visual Mitigation Measures in Construction Phase

ID No.	Visual Mitigation Measures	Implementation Status	Reference Photo
CM1	Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Planting work for phase 1 has been completed.	1 & 2
CM2	Existing trees to be retained on site should be carefully protected during construction.	Tree protection zone and protective fence was set up for retaining trees.	3
СМЗ	Trees unavoidably affected by the works should be transplanted where practical.	No transplantation work was conducted in reporting month.	N/A
CM4	Compensatory tree planting should be provided to compensate for felled trees.	No tree felling work was conducted in reporting month.	N/A
CM5	Control of night-time lighting.	Minimum lighting was provided for public and security.	4 & 5
CM6	Erection of decorative screen hoarding compatible with the surrounding setting.	Hoardings in light colour were used as screening.	6

5 ENVIRONMENTAL AUDIT

Environmental Site Audits

- 5.1 Environmental site audits were carried out on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 5.2 Site audits for the Project in the reporting month were conducted on 4th, 11th, 18th and 24th October 2013. No non-compliance was observed during the site audits.
- 5.3 Site inspections were undertaken to ensure and check the compliance with the FEP and that the implementation and maintenance of air quality, noise and visual mitigation measures are being properly carried out in the reporting month in accordance to section 2.4, 5.7 and 6.16 of the EM&A Manual respectively. No non-compliance was observed during the site inspections.
- 5.4 The summaries of site audits are attached in **Appendix J**.
- 5.5 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations are summarized in **Table 5.1**.

Table 5.1 Observations and Recommendations of Site Audits

Parameters	Date	Observations	Remediation/ Follow up
Water Quality			
Waste/Chemical Management	11 October 2013	Chemical container should be provided with trip tray and chemical labels.	The chemical container has been contained by a drip tray and attached with chemical labels.
A in Quality	4 October 2013	The removed dusty materials should be properly covered or disposed of regularly.	The dusty materials were cleared by the Contractor.
Air Quality	18 October 2013	Excavated dusty materials should be covered properly to prevent dust emission.	The excavated dusty materials were removed and not observed.
Landscape and	24 October 2013	Properly clear the construction tool next to the tree truck to prevent the tree damage.	The identified tool has been removed.
Visual	24 October 2013	The fence of the tree protection area should be kept in a good condition.	The fence has been set up properly.
Permits/Licenses			

Status of Environmental Licensing and Permitting

5.6 Environmental license or permit obtained in the reporting month is shown in **Table 5.2.**

 Table 5.2
 Environmental License or Permit Obtained in Reporting Month

Type of		Valid Period			
License/	Number	From	To	Details	Status
Permit					
License to	L-12-008(1)	02/03/2012	01/03/2017	Premises: 9 Cape Collinson Road,	Valid
conduct				Chai Wan, Hong Kong	
Specified				Classification of specified process:	
Process				Incinerators	
Water	WT00007200	05/08/2010	31/08/2015	Discharge Premises: 9 Cape	Valid
Discharge	-2010			Collinson Road, Chai Wan, Hong	
License				Kong	
Registration as	WPN:	03/08/2010	N/A	Location: 9 Cape Collinson Road,	Valid
Chemical Waste	5213-165-			Chai Wan, Hong Kong	
Producer	C3110-19			Major Chemical Waste: Spend	
				Lubricating oil, Spend Solvent and	
				Soil Containing Lubricating	
				Oil/Diesel	
Environmental	EP-335/2009	19/06/2009	N/A	Location: Existing Cape Collinson	Valid
Permit				Crematorium, Cape Collinson	
				Road, Eastern District	
Further	FEP-	06/07/2010	N/A	Location: Existing Cape Collinson	Valid
Environmental	01/335/2009			Crematorium, Cape Collinson	
Permit				Road, Eastern District	

Status of Waste Management

5.7 The amount of waste generated by the construction activities of the Project in the reporting month is attached in **Appendix K**. 715 m³ of Inert C&D waste was disposed. 1.081 tons C&D waste, including metals, paper/ cardboard packaging and plastics, were sent to recyclers. 45 m³ of other C&D waste, e.g. general refuse, were disposed to SENT landfill in October 2013.

Implementation Status of Environmental Mitigation Measures

5.8 According to the Environmental Permit and the EM&A Manual, the mitigation measures detailed in the documents are required to be implemented. Details of implementation Status of Environmental Mitigation Measures are provided in **Appendix M**.

Implementation Status of Event Action Plans

5.9 The Event Action Plans for construction noise are presented in **Appendix L**.

Construction Noise

5.10 No Action/Limit Level exceedance was reported in the reporting month.

Summary of Complaints and Prosecutions

5.11 No environmental complaint and prosecution related to the Project works was received in the reporting month.

Number of Existing and New Cremators Operating During Testing and Commissioning (T&C) Period under Phase 1

- 5.12 In according to condition 4.1 of EP: EP-335/2009 and FEP: FEP-01/335/2009, the total number of cremators in operation shall be limited during the four months T&C period, and no more than eight existing cremators and two new cremators should be operated concurrently at any one time.
- 5.13 T&C period has been completed in September 2012.

6 FUTURE KEY ISSUES

Key Issues for the Coming Month

- 6.1 Key issues to be considered in the coming month include:
 - Surface runoff generated from the construction activities (e.g. soldier piling work) and rain:
 - Dust emission from loading and unloading excavated materials, excavation works and exposed stockpiles;
 - Noise nuisance from operation of equipments/ machineries;
 - Maintenance of de-silting facilities and drainage system such as U-channels;
 - Blockage of wheel washing facility by accumulated silt;
 - Mosquito breeding due to the ponding water and stagnant water around the site areas;
 - Accumulation of C&D waste and general waste on site; and
 - Oil spillage/ leakage from the equipment on site.

Construction Program for the Next Month

6.2 The tentative construction program for the Project is provided in **Appendix O**.

Monitoring Schedule for the Next Month

6.3 The tentative environmental monitoring schedule in November 2013 for the Project is provided in **Appendix C**.

7 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

7.1 Environmental monitoring and audit works were performed in the reporting month and all monitoring results were checked and reviewed.

1-hour TSP Monitoring

7.2 All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

24-hour TSP Monitoring

7.3 All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise Monitoring

7.4 All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Environmental Audit

7.5 Environmental site audits were conducted as weekly basis in the reporting month. No non-compliance was recorded.

Complaint and Prosecution

7.6 No environmental complaint and prosecution was received in the reporting month.

Recommendations

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

Air Quality

- To ensure water spray is applied for the dust emissive works, such as breaking, loading and unloading of soil materials;
- To implement dust suppression measures on haul road, stockpiles and dry surfaces;
 and
- To sort the construction waste as inert/non-inert before disposal.

Noise

- To space out noisy equipment and position as far away as possible from sensitive receivers:
- To review the works sequence of site activities so as to reduce the number of noisy

Monthly Environmental Monitoring and Audit Report (October 2013)

equipment in concurrent operation;

- To provide temporary noise barriers for noisy activities, such as breaking works and drilling works; and
- To employ quiet powered mechanical equipment if possible.

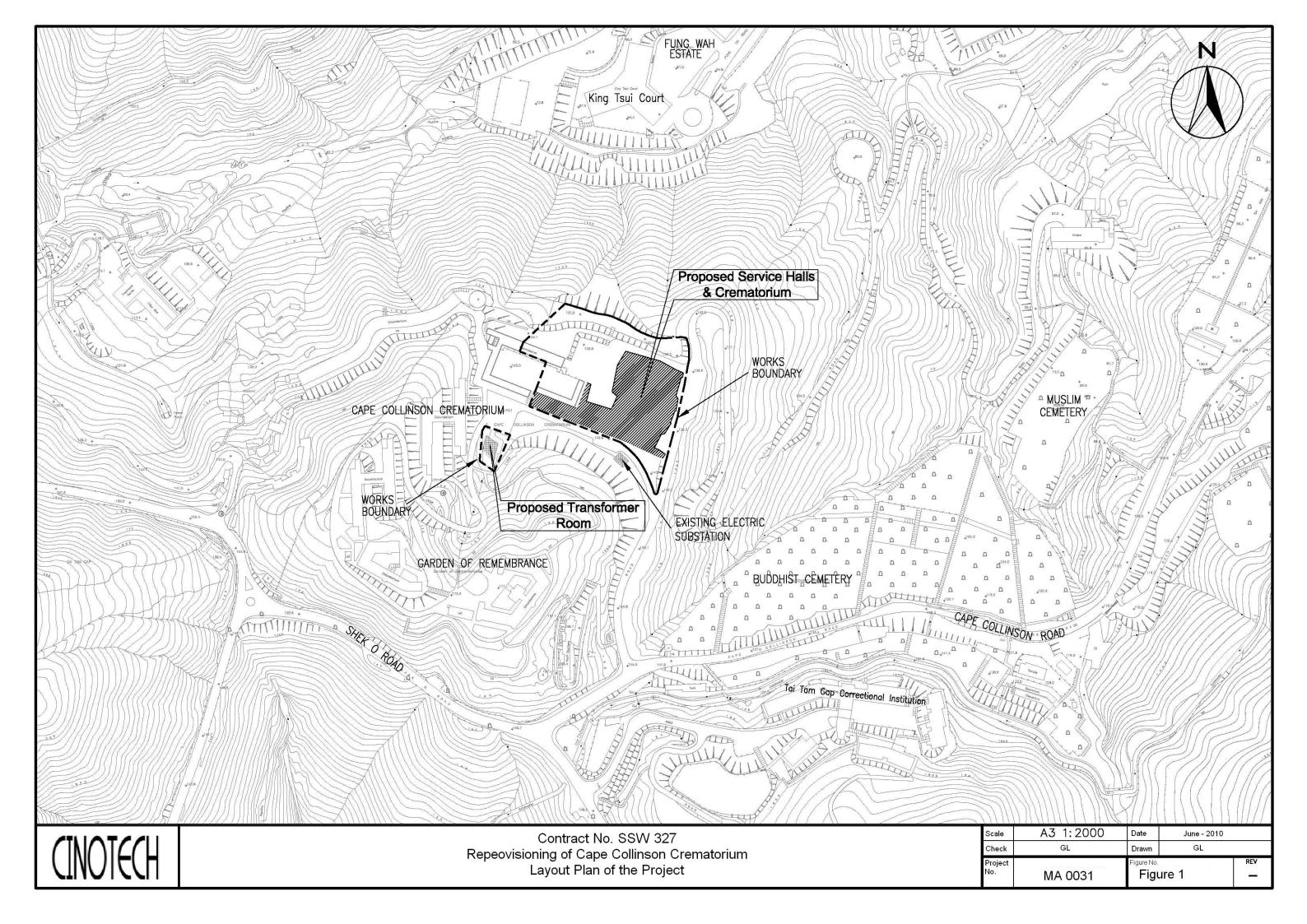
Waste/Chemical Management

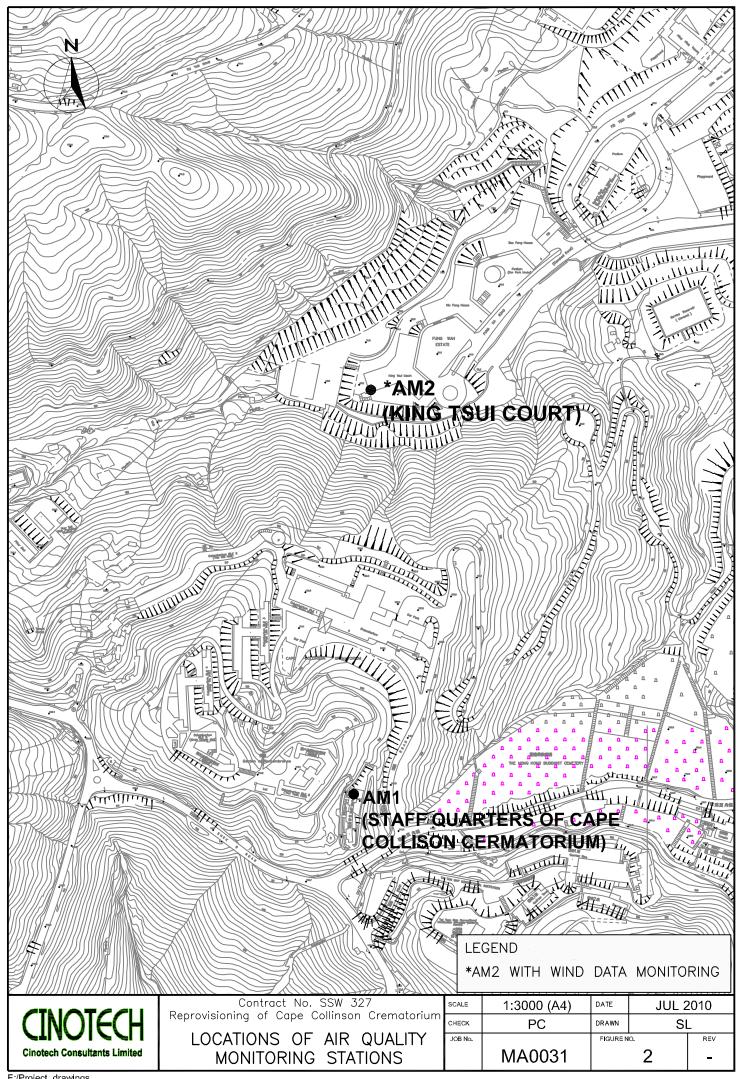
- To check for any accumulation of waste materials or rubbish on site;
- To avoid any discharge of chemical waste or oil directly from the site; and
- To well maintain the equipments and drip trays to avoid oil leakage.

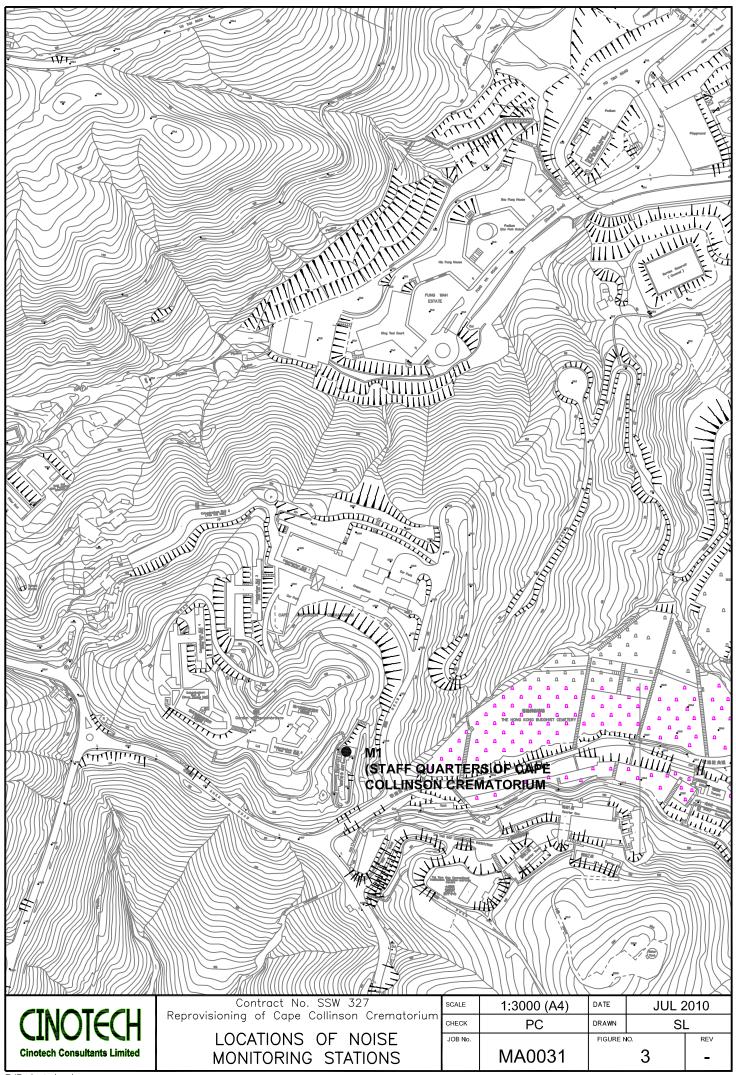
Landscape and Visual

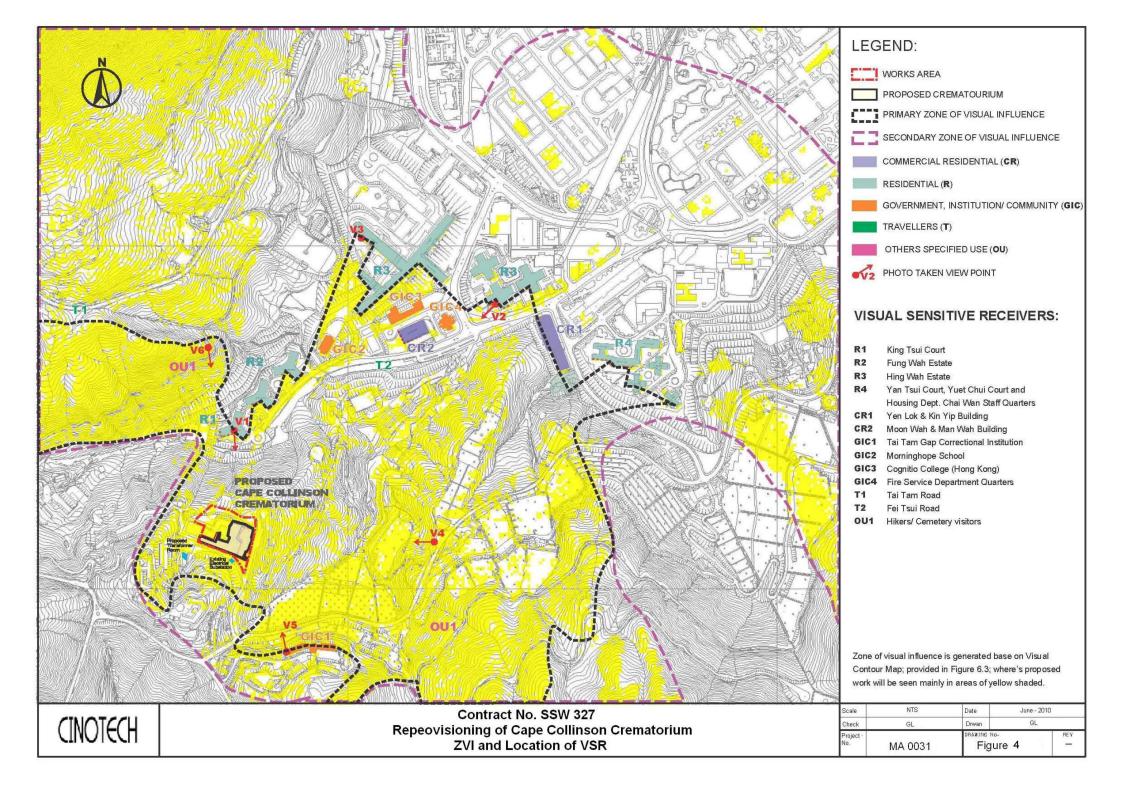
• To well maintain the tree protection barriers and tree protection zone to avoid damage to trees.

FIGURES









Environmental Team Leader Dr. Priscilla Choy (Tel: 2151 2089)

Project Coordinator

- coordination of the Project and compile reports

Janet Wai

(Tel: 2151 2078)

Monitoring Team

- perform environmental monitoring works

Team Leader: Henry SM Leung (Tel: 2151 2087)

Team Members: Tang Wing Kwai, Yeung Wing Kun, Tsang Tsz Keung, Tao Ching Hang, Choi Wai Yi.

Audit Team

- conduct site inspection, complete the environmental checklist once a week

Team Leader: Janet Wai (Tel: 2151 2078)

Team Members: Ivy Tam, Gary Lau, Victor Wong

Title

Contract No. SSW 327 - Reprovisioning of Cape Collinson Crematorium

Organization Chart

1			
Scale		Project	
	N.T.S	No.	MA0031
Date		Figure	
	Nov-13		5

CINOTECH

APPENDIX A
ACTION AND LIMIT LEVELS FOR AIR
QUALITYAND NOISE QUALITY

Appendix A Action and Limit Levels

Table A-1 Action and Limit Levels for 1-Hour TSP

Location	Action Level, μg/m ³	Limit Level, μg/m³
AM1	394	500
AM2	283	500

Table A-2 Action and Limit Levels for 24-Hour TSP

Location	Action Level, μg/m ³	Limit Level, μg/m³
AM1	164	260
AM2	151	260

Table A-3 Action and Limit Level for Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75* dB(A)

^{*} reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.

APPENDIX B COPIES OF CALIBRATION CERTIFICATES

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. __MA0031/13/0020 AM1 - Staff Quarters of Cape Collinson Crematorium WK Station Operator: 26-Oct-13 Next Due Date: _____ Date: 27-Aug-13 Equipment No.: A-01-13 Serial No. 1352 Ambient Condition 756.9 Temperature, Ta (K) 302.4 Pressure, Pa (mmHg) Orifice Transfer Standard Information 0.0574 Intercept, be A-04-04 Equipment No.: Slope, mc me x Qstd + bc = $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Last Calibration Date: 3-Oct-12 Qstd = $\{ [\Delta H \times (Pa/760) \times (298/Ta) \}^{1/2} -bc \} / mc$ Next Calibration Date: 2-Oct-13 Calibration of TSP Sampler Orfice HVS Calibration $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y- ΔH (orifice), Qstd (CFM) ΔW $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Point in, of water X - axis (HVS), in. of oil axis 11.7 3.39 59.87 7.9 2.78 2 10.0 3.13 55.41 6.8 2,58 2.24 7.6 2.73 48.41 5.1 3 4 5.2 2.26 40.19 3.3 1.80 5 1.74 31.22 2.0 1.40 3.1 By Linear Regression of Y on X Slope, mw = _____0.0490 Correlation coefficient* = *If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ Remarks: 27/8/2013 27 August 2013 Conducted by: WK TANG Signature: Kiden Signature: Date:

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA0031/13/0021 WK AM1 - Staff Quarters of Cape Collinson Crematorium Operator: Station Next Due Date: 24-Dec-13 Date: 25-Oct-13 Equipment No.: A-01-13 1352 Serial No. **Ambient Condition** 756.9 Temperature, Ta (K) 302.4 Pressure, Pa (mmHg) Orifice Transfer Standard Information 0.0592 Intercept, be Equipment No.: A-04-05 Slope, mc mc x Qstd + bc = $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Last Calibration Date: 26-Dec-12 Qstd = $\{ [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} -bc \} / mc$ Next Calibration Date: 25-Dec-13 Calibration of TSP Sampler Orfice Calibration $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2} Y$ ΔH (orifice), Qstd (CFM) ΔW Point $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ in. of water X - axis (HVS), in. of oil 57.96 2.77 1 11.8 3.40 7.8 2.58 2 10.2 3.16 53.92 6.8 2.26 7.6 2.73 46.61 5.2 3 1.80 2.26 38.64 3.3 1.44 1.80 30.88 2.1 5 3.3 By Linear Regression of Y on X Slope, mw = 0.0498Intercept, bw : -0.1001 Correlation coefficient* == 0.9990 *If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 4.24 Remarks: Conducted by: Like Tang Signature: Kwai

Checked by: Like Tang Signature: Kwai Date:

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA0031/45/0020 WK Operator: Station AM2 - King Tsui Court Next Due Date: _____ 26-Oct-13 27-Aug-13 Date: Equipment No.: ____ A-01-45 1309 Serial No. **Ambient Condition** 756.7 302.5 Pressure, Pa (mmHg) Temperature, Ta (K) Orifice Transfer Standard Information 0.0574 Intercept, bc A-04-04 Slope, mc Equipment No.: mc x Qstd + bc = $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ 3-Oct-12 Last Calibration Date: Qstd = $\{ [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} -bc \} / mc$ Next Calibration Date: 2-Oct-13 Calibration of TSP Sampler Orfice Calibration [ΔW x (Pa/760) x (298/Ta)]^{1/2} Y-Ostd (CFM) ΔH (orifice), ΔW $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Point in, of water X - axis (HVS), in. of oil axis 2.84 1 11.7 3.39 59.85 8.2 55.39 6.8 2.58 2 10.0 3.13 2.24 2.77 49.02 5.1 3 7.8 1.83 40.55 3.4 4 5.3 2.28 1.40 31.21 2.0 1.74 5 3.1 By Linear Regression of Y on X Slope, mw = 0.0500 Intercept, bw: -0.1838 Correlation coefficient* = *If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ Remarks: Conducted by: Wh. Tang Signature: Kuar Signature: Date: 27/8/7013
Date: 27 Agust 2013

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA0031/45/0021 WKStation AM2 - King Tsui Court Operator: Next Due Date: 24-Dec-13 25-Oct-13 Date: Equipment No.: _____ A-01-45 1309 Serial No. Ambient Condition Pressure, Pa (mmHg) 765.4 Temperature, Ta (K) 295.8 Orifice Transfer Standard Information A-04-05 Slope, mc 0.0592 Intercept, bc Equipment No.: mc x Qstd + bc = $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ 26-Dec-12 Last Calibration Date: Qstd = $\{ [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} -bc \} / mc$ Next Calibration Date: 25-Dec-13 Calibration of TSP Sampler HVS Orfice Calibration $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2} \text{ Y-}$ ΔH (orifice), Ostd (CFM) ΔW $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Point in, of water X - axis (HVS), in. of oil axis 2,92 11.8 3.46 58.93 8.4 6.9 2.65 2 10.2 3.22 54.82 48.30 5.3 2.32 7.9 2.83 3 1.86 4 5.2 2.30 39.28 3.4 1.46 31.39 2.1 5 3.3 1.83 By Linear Regression of Y on X Slope, mw = 0.0523 Intercept, bw : -0.1921 Correlation coefficient* = *If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ Remarks: Conducted by: WK 7 and Signature: Kwar Signature:



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

 Test Report No.:
 CA/13/130430

 Date of Issue:
 2013-05-01

 Date Received:
 2013-04-30

 Date Tested:
 2013-04-30

 Date Completed:
 2013-05-01

Next Due Date: Page:

2014-04-30

1 of 1

ATTN:

Mr. W.K Tang

Certificate of Calibration

Item for calibration:

Description

: RS232 Integral Vane Digital Anemometer

Manufacturer

Equipment No.

: AZ Instrument

Model No.

: AZ8904

Serial No.

: 974835 : A-03-03

Test conditions:

Room Temperature

: 21 degree Celsius

Relative Humidity

: 66%

Pressure

: 101.1 kPa

Methodology:

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

Results:

78. 20022001	Reference Set Point	Instrument Readings
Measuring Air Velocity, m/s	2.00	2.00
Temperature, °C	21.0	21.0

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



WELLAB LIMITED Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT

Description Calibration Orifice

3 October 2012

Serial No. Model No. 0993

Date

TE-5025A

Manufacturer

Va

0.9958

0.9918

0.9897

0.9885

TISCH

Temperature, Ta (K)

298

Pressure, Pa (mmHg)

759.2

(Y axis)

0.8861

1.2531

1.4010

1.4694

1.7721

Plate	Diff.Vol (m³)	Diff.Time (min)	Diff.Hg (mm)	Diff.H ₂ O (in.)
1	1.00	1.3820	3.2	2.00
2	1.00	0.9800	6.2	4.00
3	1.00	0.8770	7.8	5.00
4	1.00	0.8380	8.7	5.50
5	1.00	0.6930	12.7	8.00

DATA TABULATION

Vstd	(X axis) Qstd	(Y axis)
0.9947	0.7197	1.4134
0.9907	1.0109	1.9989
0.9886	1.1273	2.2348
0.9874	1.1783	2.3439
0.9822	1.4173	2.8268

Y axis= SQRT[H₂O(Pa/760)(298/Ta)]

Qstd Slope (m) = 2.02751

Intercept (b) = -0.04785Coefficient (r) = 0.99999

i	U.9833		1.4189		
	Y axis=	SOR	TIH ₂ O/	[a/Pa)	1

Qa Siope (m) = 1.26959

(X axis)

Qa

0.7205

1.0121

1.1285

1.1796

Intercept (b) = -0.03000Coefficient (r) = 0.99999

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=I/m{[SQRT($H_2O(Pa/760)(298/Ta))]-b}$

 $Qa=I/m{[SQRT H₂O(Ta/Pa)]-b}$

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

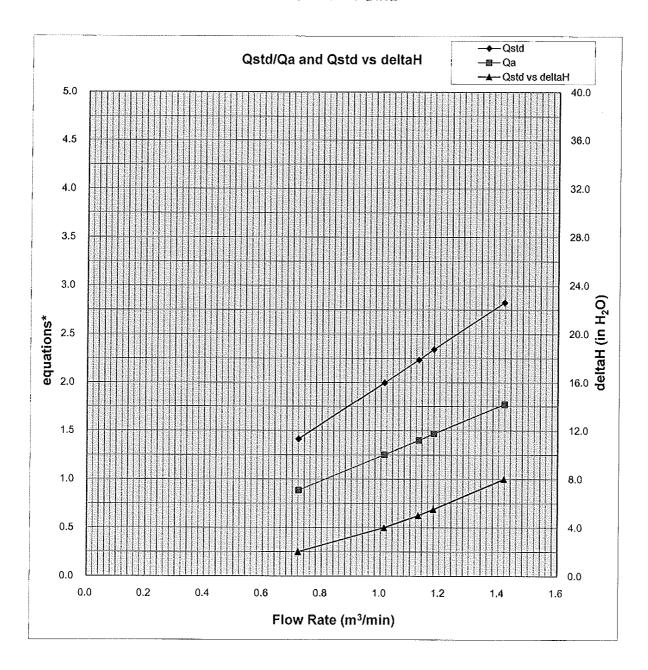
PATRICK TSE

Laboratory Manager

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TEST REPORT



Y-axis equations:

Qstd series: SQRT[\(\Delta\)H(Pa/Pstd)(Tstd/Ta)]

Qa series: $SQRT[\Delta H(Ta/Pa)]$

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Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/130831/1
Date of Issue: 2013-09-02

Date Received: 2013-08-31

Date Tested: 2013-08-31 Date Completed: 2013-09-02

Next Due Date: 2013-03-02

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description : Laser Dust Monitor

Manufacturer : Sibata

Model No. : LD-3

Serial No. : 251634

Sensitivity (K) 1 CPM : 0.001 mg/m³

Sen. Adjustment Scale Setting : 550 CPM

Equipment No.

: A-02-01

Test Conditions:

Room Temperature : 20 degree Celsius

Relative Humidity : 58%

Test Specifications & Methodology:

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF) 0.0036

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/130816/1
Date of Issue: 2013-08-19
Date Received: 2013-08-16
Date Tested: 2013-08-16
Date Completed: 2013-08-19

Next Due Date:

2013-08-19

ATTN:

Mr. WK Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description : Laser Dust Monitor

Manufacturer : Sibata

Model No. : LD-3B

Serial No. : 954253

Sensitivity (K) 1 CPM : 0.001 mg/m³

Sen. Adjustment Scale Setting : 685 CPM

Equipment No. : A-02-05

Test Conditions:

Room Temperature : 20 degree Celsius

Relative Humidity : 68%

Test Specifications & Methodology:

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:

	Correlation Factor (CF)		0	0.0032
--	-------------------------	--	---	--------

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager

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website: www.wellab.com.

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/131018/1 Date of Issue: 2013-10-21

Date Received: 2013-10-18

Date Tested: 2013-10-18 Date Completed: 2013-10-21

Next Due Date: 2013-12-20

ATTN:

Mr. WK Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description : Laser Dust Monitor

Manufacturer: SibataModel No.: LD-3BSerial No.: 954253Sensitivity (K) 1 CPM: 0.001 mg/m³

Sen. Adjustment Scale Setting : 772 CPM Equipment No. : A-02-05

Test Conditions:

Room Temperature : 19 degree Celsius

Relative Humidity : 60%

Test Specifications & Methodology:

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF) 0.0031

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Laboratory Manager

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TEST REPORT

APPLICANT: **Cinotech Consultants Limited**

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/130831/3 Date of Issue: 2013-09-02 Date Received: 2013-08-31 Date Tested: 2013-08-31 Date Completed: 2013-09-02 Next Due Date: 2013-11-01

ATTN:

Mr. W. K. Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description

: Laser Dust Monitor

Manufacturer Model No.

: Sibata : LD-3B

Serial No.

: 014750

Sensitivity (K) 1 CPM

 $: 0.001 \text{ mg/m}^3$

Sen. Adjustment Scale Setting Equipment No.

: 790 CPM : A-02-06

Test Conditions:

Room Temperature

: 20 degree Celsius

Relative Humidity

: 58%

Test Specifications & Methodology:

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:

- 1		
	Correlation Factor (CF)	0.0035

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For and On Behalf of WELLAB Ltd.

Laboratory Manager



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TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/130906/1 Date of Issue: 2013-09-08 Date Received: 2013-09-06 Date Tested: 2013-09-06 Date Completed: 2013-09-08 Next Due Date: 2013-11-07

ATTN:

Mr. W. K. Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

: Laser Dust Monitor Description

: Sibata Manufacturer Model No. : LD-3B : 095039 Serial No. $: 0.001 \text{ mg/m}^3$ Sensitivity (K) 1 CPM Sen. Adjustment Scale Setting : 764 CPM : A-02-08

Equipment No.

Room Temperature

Test Conditions:

: 19 degree Celsius

Relative Humidity : 58%

Test Specifications & Methodology:

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:

0.0032 Correlation Factor (CF)

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

Cinotech Consultants Limited APPLICANT:

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/130906/3 Date of Issue: 2013-09-08 Date Received: 2013-09-06 Date Tested: 2013-09-06 Date Completed: 2013-09-08 Next Due Date: 2013-11-07

ATTN:

Mr. W. K. Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

: Laser Dust Monitor Description

: Sibata Manufacturer : LD-3B Model No. Serial No. : 095029 $: 0.001 \text{ mg/m}^3$ Sensitivity (K) 1 CPM Sen. Adjustment Scale Setting : 551 CPM : A-02-10 Equipment No.

Test Conditions:

: 19 degree Celsius Room Temperature

Relative Humidity : 58%

Test Specifications & Methodology:

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Laser Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Laser Dust Monitor and High Volume Sampler.

Results:

0.0031 Correlation Factor (CF)

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

Laboratory Manager



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Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/131004/2
Date of Issue: 2013-10-07
Date Received: 2013-10-04
Date Tested: 2013-10-04
Date Completed: 2013-10-07

Next Due Date:

2013-12-06

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Certificate of Calibration

Item for Calibration:

Description : Dust Monitor

Manufacturer : Met One Instruments

Model No. : AEROCET-531

Serial No. : N6733 Flow rate :0.1 cfm

Zero Count Test :0 mg (The result of the 2-minute sample)

Equipment No. : A-02-12

Test Conditions:

Room Temperature : 20 degree Celsius

Relative Humidity : 63%

Test Specifications & Methodology:

- 1. Instruction and Operation Manual High Volume Sampler, Andersen Samplers, Inc.
- 2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

ACOURTS.	
Correlation Factor (CF)	1.155

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

Laboratory Manager



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: C/N/130824/1 Date of Issue: 2013-08-25 Date Received: 2013-08-24 Date Tested: 2013-08-24 Date Completed:

Next Due Date:

2013-08-25

2014-08-24

ATTN:

Mr. W.K. Tang

Page:

1 of 1

Certificate of Calibration

Item for calibration:

Description

: 'SVANTEK' Integrating Sound Level Meter

Manufacturer

: SVANTEK

Model No. Serial No.

: SVAN 955 : 21139

Microphone No.

: 43690

Equipment No.

: N-08-06

Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 65%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE Laboratory Manager



Rms 816, 1516 & 1701, Technology Park, 18 On Lai Street, Shatin, N.T, Hong Kong. Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Cinotech Consultants Limited

Room 1710, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

World Landson Commence Commenc	
Test Report No.:	C/N/130830/4
Date of Issue:	2012-08-31
Date Received:	2013-08-30
Date Tested:	2013-08-30
Date Completed:	2013-08-31
Next Due Date:	2014-08-30

ATTN:

Mr. W.K. Tang

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: Brüel & Kjær

Model No.

: 4231

Serial No.

: 2412367

Equipment No.

: N-02-03

Test conditions:

Room Temperatre

: 20 degree Celsius

Relative Humidity

: 64%

Methodology:

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

Results:

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

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE
Laboratory Manager

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APPENDIX C ENVIRONMENTAL MONITORING SCHEDULES

Contract No. SSW 327 - Reprovisioning of Cape Collinson Crematorium Impact Air Quality and Noise Monitoring for October 2013

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

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

Contract No. SSW 327 - Reprovisioning of Cape Collinson Crematorium Tentative Impact Air Quality and Noise Monitoring for November 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Nov	2-Nov
3-Nov	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov	9-Nov
	1 hr TSP	1 hr TSP	1 hr TSP			
	1 111 131	1 111 151	Noise			
				24 hrs TSP		
10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov
10-1404	11-1100	12-1100	13-1100	14-NOV	13-1100	10-1107
	1 hr TSP Noise	1 hr TSP		1 hr TSP		
	Noise		24 hrs TSP			
17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov
		1 hr TSP	1 hr TSP	1 hr TSP		
		Noise				
		24 hrs TSP				
24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	30-Nov
	1 hr TSP	1 hr TSP	1 hr TSP			
	Noise	1 111 151	1 111 151			
	24 hrs TSP					24 hrs TSP

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

Air Quality Monitoring Station (1 hr TSP & 24 hr TSP)
AM1- Staff Quarters of Cape Collinson Crematorium

Noise Monitoring Station

M1 - Staff Quarters of Cape Collinson Crematorium

AM2 - King Tsui Court

APPENDIX D 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

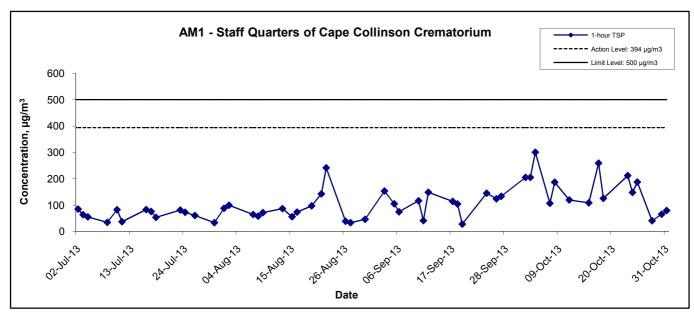
Appendix D - 1-hour TSP Monitoring Results

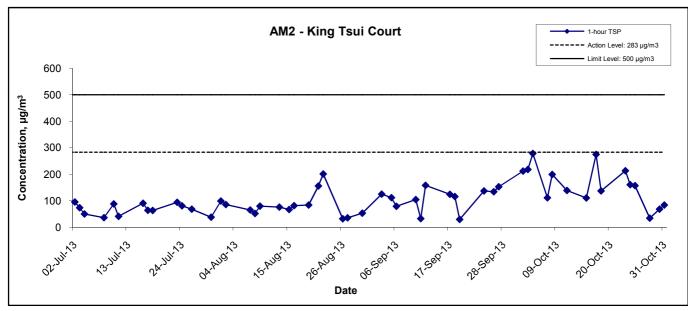
Location AM1 -	Location AM1 - Staff Quarters of Cape Collinson Crematorium								
Date	Time	Weather	Particulate Concentration (μg/m³)						
2-Oct-13	10:50	Sunny	204.8						
3-Oct-13	11:00	Cloudy	205.0						
4-Oct-13	9:15	Sunny	300.2						
7-Oct-13	11:00	Sunny	106.7						
8-Oct-13	10:40	Cloudy	186.6						
11-Oct-13	11:00	Sunny	119.5						
15-Oct-13	10:30	Sunny	108.7						
17-Oct-13	10:40	Cloudy	259.3						
18-Oct-13	10:50	Sunny	125.6						
23-Oct-13	10:50	Sunny	211.7						
24-Oct-13	10:45	Sunny	148.1						
25-Oct-13	14:30	Sunny	187.7						
28-Oct-13	15:30	Sunny	40.4						
30-Oct-13	10:50	Sunny	65.3						
31-Oct-13	11:00	Sunny	79.4						
		Average	156.6						
		Maximum	300.2						
		Minimum	40.4						

Location AM2 - King Tsui Court								
Date	Time	Weather	Particulate Concentration (µg/m³)					
2-Oct-13	9:30	Sunny	212.0					
3-Oct-13	9:30	Cloudy	217.9					
4-Oct-13	9:00	Sunny	278.2					
7-Oct-13	9:30	Sunny	110.9					
8-Oct-13	9:20	Cloudy	199.3					
11-Oct-13	9:40	Sunny	138.9					
15-Oct-13	13:00	Sunny	110.6					
17-Oct-13	9:20	Cloudy	274.9					
18-Oct-13	9:30	Sunny	137.3					
23-Oct-13	9:30	Sunny	213.0					
24-Oct-13	9:25	Sunny	160.5					
25-Oct-13	13:00	Sunny	157.2					
28-Oct-13	14:10	Sunny	34.7					
30-Oct-13	9:30	Sunny	68.4					
31-Oct-13	9:30	Sunny	84.0					
		Average	159.9					
		Maximum	278.2					
		Minimum	34.7					

MA0031/App D - 1hr TSP Cinotech

1-hr TSP Concentration Levels





Title	Contract No. SSW 327
	Reprovisioning of Cape Collinson Crematorium
	Graphical Presentation of 1-hour TSP Monitoring Results

Scale		Project	
	N.T.S	No.	MA003
Date		Appendi	Х
	Oct 13		D



APPENDIX E 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix E - 24-hour TSP Monitoring Results

Location AM1 - Staff Quarters of Cape Collinson Crematorium

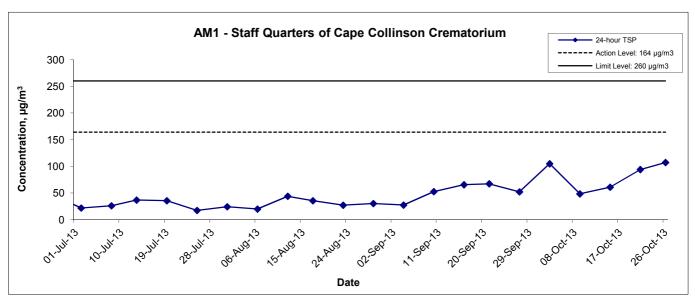
Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m^3)	$(\mu g/m^3)$
3-Oct-13	Sunny	298.4	763.2	3.6180	3.8027	0.1847	12736.3	12760.3	24.0	1.22	1.22	1.22	1762.6	104.8
9-Oct-13	Sunny	299.9	759.9	3.7736	3.8585	0.0849	12760.3	12784.3	24.0	1.22	1.22	1.22	1754.8	48.4
15-Oct-13	Sunny	299.7	762.8	3.7451	3.8519	0.1068	12784.3	12808.3	24.0	1.22	1.22	1.22	1758.5	60.7
21-Oct-13	Sunny	296.4	764.9	3.7323	3.8984	0.1661	12808.3	12832.3	24.0	1.23	1.23	1.23	1769.8	93.9
26-Oct-13	Sunny	294.3	767.5	3.6876	3.8780	0.1904	12832.3	12856.3	24.0	1.23	1.23	1.23	1777.7	107.1
													Min	48.4
													Max	107.1
													Average	83.0

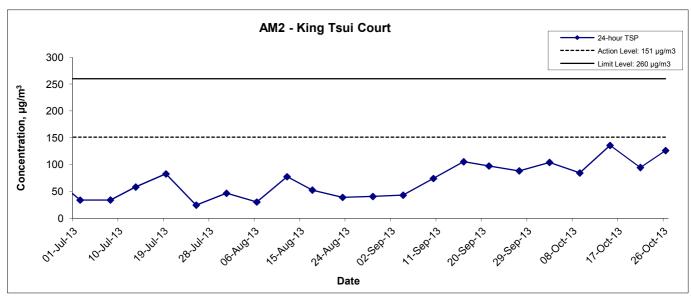
Location AM2 - King Tsui Court

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
3-Oct-13	Sunny	298.4	763.2	3.6234	3.8068	0.1834	9446.5	9470.5	24.0	1.22	1.22	1.22	1761.8	104.1
9-Oct-13	Sunny	299.9	759.9	3.7803	3.9285	0.1482	9470.5	9494.5	24.0	1.22	1.22	1.22	1754.2	84.5
15-Oct-13	Sunny	299.7	762.8	3.7345	3.9732	0.2387	9494.5	9518.5	24.0	1.22	1.22	1.22	1757.8	135.8
21-Oct-13	Sunny	296.4	764.9	3.7732	3.9404	0.1672	9518.5	9542.5	24.0	1.23	1.23	1.23	1768.9	94.5
26-Oct-13	Sunny	294.3	767.5	3.7402	3.9627	0.2225	9542.5	9566.5	24.0	1.23	1.23	1.23	1764.4	126.1
													Min	84.5
													Max	135.8
													Average	109.0

MA0031/App F - 24hr TSP

24-hr TSP Concentration Levels





Title	Contract No. SSW 327
	Reprovisioning of Cape Collinson Crematorium
G	raphical Presentation of 24-hour TSP Monitoring Results

Scale		Project	
	N.T.S	No.	MA003
Date	Oct 13	Appendi	x E



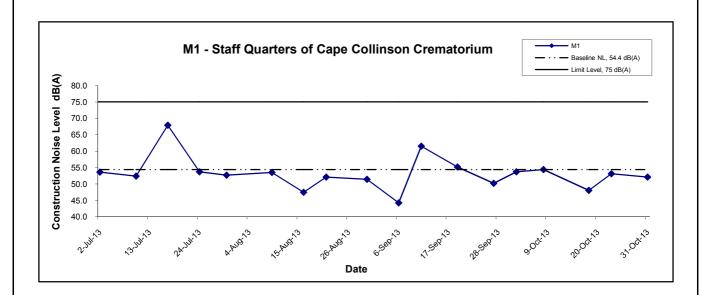
APPENDIX F NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix F - Noise Monitoring Results

Location M1 - Staff Quarters of Cape Collinson Crematorium										
				Unit: dB (A) (30-min)						
Date	Time	Weather	Weather Measured Noise Level			Baseline Level	Construction Noise Level			
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}			
2-Oct-13	10:50	Sunny	53.7	56.8	49.3		53.7 Measured ≤ Baseline			
8-Oct-13	10:40	Cloudy	54.4	56.8	49.7		54.4 Measured ≤ Baseline			
18-Oct-13	10:50	Sunny	55.3	57.1	49.4	54.4	48.0			
23-Oct-13	10:50	Sunny	53.1	55.8	48.7		53.1 Measured ≤ Baseline			
31-Oct-13	11:00	Sunny	56.4	59.3	50.2		52.1			

MA0031/App F - Noise Cinotech

Noise Levels



Contract No. SSW 327
Reprovisioning of Cape Collinson Crematorium
Graphical Presentation of Construction Noise Monitoring
Results

Title

Scale		Project
	N.T.S	No. MA0031
Date	Oct 13	Appendix F



APPENDIX G VISUAL MITIGATION MEASURES PHOTOGRAPHIC RECORD





APPENDIX H WEATHER CONDITION ON MONITORING DATE

Appendix H Weather Conditions on Monitoring Date

Date	Air Temperature (°C)	Mean Relative Humidity (%)
2 - October -2013	25.5 – 31.4	46 – 89
3 - October -2013	24.6 – 30.1	51 – 86
4 - October -2013	24.7 – 29.4	56 – 82
7 - October -2013	25.5 – 32.0	48 – 61
8 - October -2013	25.6 – 29.0	58 – 73
9 - October -2013	25.4 – 30.1	65 – 85
11 - October -2013	25.5 – 31.1	65 – 89
15 - October -2013	25.6 – 29.9	61 – 84
17 - October -2013	24.0 – 26.0	67 – 79
18 - October -2013	23.2 – 28.5	53 – 75
21 - October -2013	22.8 – 27.4	63 – 82
23 - October -2013	21.9 – 27.6	39 – 56
24 - October -2013	21.3 – 27.9	29 – 51
25 - October -2013	21.6 – 27.1	27 – 49
26 - October -2013	19.4 – 25.6	40 – 66
28 - October -2013	20.9 – 25.7	52 – 78
30 - October -2013	22.9 – 26.5	62 – 83
31 - October -2013	22.4 – 28.1	56 – 84

^{*} The above information was extracted from the daily weather summary by Hong Kong Observatory.

APPENDIX I SUMMARY OF EXCEEDANCE

APPENIDX I – SUMMARY OF EXCEEDANCE

Reporting Month: October 2013

- a) Exceedance Report for 1-hr TSP (NIL)
- b) Exceedance Report for 24-hr TSP (NIL)
- c) Exceedance Report for Construction Noise (NIL)

APPENDIX J SITE AUDIT SUMMARY

Record Summary of Environmental Site Inspection

Inspection Information

Checklist Reference Number	131004
Date	4 October 2013 (Friday)
Time	10:30 – 11:30

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

Related Item No. Remarks/Observations Ref. No. Part A - Water Quality No environmental deficiency was identified during the site inspection. Part B - Landscape and Visual No environmental deficiency was identified during the site inspection. Part C - Air Quality · The removed dusty material should be properly covered or disposed of C 6 131004-R01 regularly. Part D - Noise • No environmental deficiency was identified during the site inspection. Part E - Waste / Chemical Management • No environmental deficiency was identified during the site inspection. Part F - Permit / Licenses No environmental deficiency was identified during the site inspection. Others • Follow-up on the previous audit session (Ref. No.130926), all environmental deficiencies were improved/ rectified by the Contractor.

	Name	Signature	Date
Recorded by	Gary Lau	Bank	4 October 2013
Checked by	Dr. Priscilla Choy	NE	4 October 2013
Checked by	Di. I libonia eneg	<u> </u>	

CINOTECH MA0031 131004_audit.doc

Record Summary of Environmental Site Inspection

Non-Compliance

Inspection Information

Ref. No.

Checklist Reference Number	131011	
Date	11 October 2013 (Friday)	
Time	10:30 – 11:30	

_	None identified	
Ref. No.	Remarks/Observations	Related Item No.
	Part A - Water Quality No environmental deficiency was identified during the site inspection.	
	Part B – Landscape and Visual	
	No environmental deficiency was identified during the site inspection.	:
	Part C - Air Quality No environmental deficiency was identified during the site inspection.	
	Part D – Noise No environmental deficiency was identified during the site inspection.	
131011-001	Part E - Waste / Chemical Management • Chemical container should be provided with trip tray and chemical labels.	E 7ii
	Part F - Permit / Licenses No environmental deficiency was identified during the site inspection.	
	Others Follow-up on the previous audit session (Ref. No.131004), all environmental deficiencies were improved/ rectified by the Contractor.	

11 October 201	.3
11 October 201	.3
	11 October 201

Related Item No.

Record Summary of Environmental Site Inspection

Inspection Information

Checklist Reference Number	131018	
Date	18 October 2013 (Friday)	
Time	14:00 – 15:00	

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

Related Item No. Remarks/Observations Ref. No. Part A - Water Quality • No environmental deficiency was identified during the site inspection. Part B - Landscape and Visual • No environmental deficiency was identified during the site inspection. Part C - Air Quality • Excavated dusty materials should be covered properly to prevent dust C 6 131018-R01 emission. Part D - Noise No environmental deficiency was identified during the site inspection. Part E - Waste / Chemical Management • No environmental deficiency was identified during the site inspection. Part F - Permit / Licenses • No environmental deficiency was identified during the site inspection. Others • Follow-up on the previous audit session (Ref. No.131011), all environmental deficiencies were improved/ rectified by the Contractor.

	Name	Signature	Date
Recorded by	Victor Wong	W	22 October 2013
Checked by	Dr. Priscilla Choy	NF	22 October 2013

CINOTECH MA0031 131018_audit

Record Summary of Environmental Site Inspection

Inspection Information

Checklist Reference Number	131024
Date	24 October 2013 (Thursday)
Time	13:30 – 15:00

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

Ref. No.	Remarks/Observations	Related Item No.
	Part A - Water Quality	
	No environmental deficiency was identified during the site inspection.	
:	Part B – Landscape and Visual	
131024-R01	Properly clear the construction tool next to the tree truck to prevent the tree damage.	В 3
131024-R02	The fence of the tree protection area should be kept in a good condition.	В 1
	Part C - Air Quality	
	No environmental deficiency was identified during the site inspection.	
	Part D – Noise	
	No environmental deficiency was identified during the site inspection.	
	Part E - Waste / Chemical Management No environmental deficiency was identified during the site inspection.	
	Part F - Permit / Licenses	
	No environmental deficiency was identified during the site inspection.	
	Others	
	 Follow-up on the previous audit session (Ref. No.131018), all environmental deficiencies were improved/ rectified by the Contractor. 	

	Name	Signature	Date
Recorded by	Janet Wai	JA	24 October 2013
Checked by	Dr. Priscilla Choy	NA	24 October 2013

CINOTECH MA0031 131024_audit

APPENDIX K SUMMARY OF AMOUNT OF WASTE GENERATED

Architectural Services Department
--

Form No. D/OI.03/09.002

Contract No. / Works Order No.: - SS W327

Monthly Summary Waste Flow Table for 2013 [year] [to be submitted not later than the 15th day of each month following reporting month]

(All quantities shall be rounded off to 3 decimal places.)

		Actual Quantities of I	nert Construction Waste Ge	enerated Monthly	
Month	(a)=(b)+(c)+(d)+(e) Total Quantity Generated	(b) Broken Concrete (see Note 4)	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)
Jan	0	0	0	0	0
Feb	0	0	0	0	0
Mar	0.039	0	0	0	0.039
Apr	0.117	0	0	0	0.117
May	0.104	0	0	0	0.104
Jun	0.098	0	0	0	0.098
Sub-total	0.358	0	0	0	0.358
Jul	0.111	0	0	0	0.111
Aug	0.052	0	0	0	0.052
Sep	0.189	0	0	0	0.189
Oct	0.715	0	0	0	0.715
Nov					
Dec					
Total	1.425	0	0	0	1.425

					Actual Qua	ntities of Nor	n-inert Constr	uction Waste	Generated M	onthly			
Month	Tim	ber	Metals		Paper/ cardboard packaging			Plastics (see Note 3)		al Waste	Mate	ecyclable erials pecify)	General Refuse disposed of at Landfill
	(in '00	00kg)	(in '0	00kg)	(in '0	00kg)	(in '0	00kg)	(in '0	00kg)	(in '0	00kg)	(in '000m ³)
	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated
Jan	0	0	2.030	2.030	0.101	0.101	0.020	0.020	0	0	0	0	0
Feb	0	0	0	0	0.060	0.060	0.010	0.010	0	0	0	0	0
Mar	0	0	0	0	0.053	0.053	0.002	0.002	0	0	0	0	0
Apr	0	0	4.470	4.470	0.047	0.047	0.003	0.003	18.900	18.900	0	0	0.007
May	0	0	3.420	3.420	0.110	0.110	0.003	0.003	0	0	0	0	0.026
Jun	0	0	1.860	1.860	0.033	0.033	0.003	0.003	0	0	0	0	0.026
Sub-total	0	0	11.780	11.780	0.404	0.404	0.041	0.041	18.900	18.900	0	0	0.059
Jul	0	0	0.980	0.980	0.075	0.075	0.017	0.017	0	0	0	0	0.026
Aug	0	0	7.340	7.340	0.057	0.057	0.015	0.015	0	0	0	0	0.046
Sep	0	0	22.600	22.600	0.097	0.097	0.002	0.002	0	0	0	0	0.026
Oct	0	0	0.980	0.980	0.101	0.101	0.000	0.000	0	0	0	0	0.045
Nov													
Dec													
Total	0	0	43.680	43.680	0.734	0.734	0.075	0.075	18.900	18.900	0	0	0.202

Description of mod	le and details of recycling i	f any for the month e.g. XX	K kg of used timber was se	nt to YY site for transform	ation into fertilizers
NIL	October 2013 metals waste sent to Hong Kong Scrap Yard Ltd. (980 kg)	September 2013 paper waste sent to Lung Hing Waste Paper Co., Ltd. (101kg)	NIL	NIL	NIL

Page 3

Notes:

- (1) The performance targets are given in the Particular Specification on Environmental Management Plan.
- (2) The waste flow table shall also include construction waste that are specified in the Contract to be imported for use at the site.
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (4) Broken concrete for recycling into aggregates.
- (5) If necessary, use the conversion factor: 1 full load of dumping truck being equivalent to 6.5 m³ by volume.

First Issue Date - 20:07:2009 Current Issue Date - 21:09:2011

APPENDIX L EVENT/ ACTION PLANS

Appendix L – Event Action Plan

Event		Action		
	ET	IEC	ER	Contractor
Action Level being exceeded	 Notify ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the IEC and Contractor on remedial measures required; Increase monitoring frequency to check mitigation effectiveness. 	Review the investigation results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Advise the ER on the effectiveness of the proposed remedial measures.	Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures	Submit noise mitigation proposals to IEC and ER; Implement noise mitigation proposals.
Limit Level being exceeded	 Inform IEC, ER, Contractor and EPD; Repeat measurements to confirm findings; Increase monitoring frequency; Identify source and investigate the cause of exceedance; Carry out analysis of Contractor's working procedures; Discuss with the IEC, Contractor and ER on remedial measures required; Assess effectiveness of Contractor's remedial actions and keep IEC, 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.	Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and ER within 3 working days of notification; Implement the agreed proposals; Submit further proposal if problem still not under control; Stop the relevant portion of works as instructed by the ER until the exceedance is abated.

APPENDIX M ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE

EIA Ref#	Environmental Protection Measures/ Mitigation	Location / Timing	Implementation	Sta	mplementation Stages*			Relevant Legislation and	Status
	Measures	Works Sites / Contractor	С	0	Dec	Guidelines			
3.102	Construction & Demolition Phase	Works Sites /	Contractor		V			EIAO-TM	#
	Implementation of dust suppression measures	During							
	stipulated in Air Pollution Control (Construction	Construction							
	Dust) Regulation:	Phase							
	skip hoist for material transport should be totally enclosed by impervious sheeting; every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site; the area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; where a site boundary adjoins a road, streets or other accessible to the public, hording of not less than 2.4m high from ground level should be provided along the entire length except for a site entrance or exit; every stack of more than 20 bags of cement should be covered entirely by impervious sheeting places in an area sheltered on the top and the 3 sides; all dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet; the excavation area should be limited to as small in size as possible and backfilled with clean and/or treated soil shortly after excavation work; the height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation								

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EIA Ref#	Environmental Protection Measures/ Mitigation	Location / Timing	Implementation	lmp	oleme Stag		on	Relevant Legislation and	Status
	Measures		Agent	Des	С	0	Dec	Guidelines	
	from unloading; the load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle; and implementation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of works if dusty conditions arise. Implementation of precautionary and mitigation							APCO	
	measures for removal of Asbestos Containing								
	Material stipulated in Air Pollution Control								
	Ordinance:								
3.91	enclosure of the work area; containment and sealing for the asbestos containing waste; provision of personal decontamination facilities; use of personal decontamination facilities; use of personal respiratory/protection equipment; use of vacuum cleaner fitted with a high efficiency particulate air filter for cleaning up the works area; and carrying out air quality monitoring during the asbestos abatement works.								
S3.8 – S3.22 and	Operation Phase Although the final selection of cremation technology and air pollution control system would be subject to open tendering procedure, the performance and	Cremators / During Operation Phase	Contractor	V		V		APCO	N/A

EIA Ref#		Location / Timing Agent	-	lmp	oleme Stag		on	Relevant Legislation and	Status
	Measures		Des	С	0	Dec	Guidelines		
3.77	specifications of the new cremators and air pollution control system shall fully comply with target emission limits and the BPM12/2(06); Use of towngas as burning fuel for the new cremators; and Adoption of flue gas treatment system for joss paper burners.								
3.108	The monitoring of the air pollutants shall comply with the requirements of BPM and future Specified Process License of new crematorium, to be issued by EPD under the APCO.					$\sqrt{}$		APCO	

[#] All recommendations and requirements resulted during the course of EIA/EA Process, including ACE and / or accepted public comment to the proposed project.

EIA Ref#	Environmental Protection Measures/Mitigation Measures	Location/ Timing	Implementation Agent	lm		enta	tion	Relevant Legislation and	Status
	inicasui es		Agent	Des	С	0	Dec	Guidelines	
Waste Manag	ement								
S.4.58	Construction & Demolition Phase Good Site Practice Obtain relevant waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354) and the Land (Miscellaneous Provision) Ordinance (Cap. 28) Prepare a Waste Management Plan approved by the Engineers / Supervising Officer of the Project based on current best practice on Construction Site Use waste licensed collector to collect waste Establish trip ticket system as contractual requirement with reference to ETWB(W) No. 31/2004 for monitoring of public fill and C&D waste at public filling facilities and landfills. Provide training to site staff in terms of proper waste management and chemical waste handling procedures Separate chemical wastes for special handling and dispose them at licensed facility for treatment Provide sufficient waste disposal points and regular collection for disposal Establish recording system for the amount of	Project site / design, construction and demolition phase	Contractor	√	V			Waste Disposal Ordinance (Cap. 354) Waste Disposal (Chemical Waste) (General) Regulation Waste Disposal (Charges for Disposal of Construction Waste) Regulation ETWBTC(W) 19/2005 ETWB(W) No. 31/2004	#
S.4.59	wastes generated, recycled and disposed of Environmental Management Plan The ETWB TCW No.19/2005 "Environmental Management on Construction" includes procedures on waste management requiring contractors to reduce the C&D material to be	Project site / design, construction and	Contractor	√	√	√		ETWBTC(W) 19/2005	٨

EIA Ref#	Environmental Protection Measures/Mitigation Measures	Location/ Timing	Implementation	lmı		entat	tion	Relevant Legislation and	Status
	weasures		Agent	Des	С	0	Dec	Guidelines	
Waste Manag	ement								
	disposed of during the course of construction. Under this ETWB TCW No.19/2005, the Contractor is required to prepare and implement an Environmental Management Plan (EMP) and the Waste Management Plan (WMP) becomes part of the EMP.	demolition phase							
S.4.60	 Waste Reduction Measures Prior to disposal of C&D waste, wood, steel and other metals should be separated for reuse and / or recycling to minimize the quantity of waste to be disposed of to landfill Minimize use of wood and reuse non-timber formwork to reduce the amount of C&D waste As far as practicable, segregate and store different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal Encourage collection of aluminium cans, plastic bottles and packaging material (e.g. carton boxes) and office paper 	Project site / construction and demolition phase	Contractor		√ ·	√		WBCT No. 32/1992 WBCT No. 19/2005	٨
S.4.61-S4.62	Rock and soil generated from excavation should be reused during site formation and landscaping as far as practicable to reduce total amount dispose off site. Trip ticket should be implemented for surplus excavated materials	Project site / construction and demolition phase	Contractor / ArchSD		√			WBTC No. 12/2000 ETWB TC(W) No. 31/2004	۸
S.4.63 – S.4.66	Construction and Demolition Materials Well-planned design and good site management can minimize over-loading and generation of waste materials such as concrete and cement grouts. Wooden frame should be replaced by metals. Plastic fencing and reusable site office structure can reduce	Project site / construction and demolition phase	Contractor / ArchSD	1	V			WBTC No. 2/93 The Land (Miscellaneous Provision) Ordinance	۸

EIA Ref#	Environmental Protection Measures/Mitigation Measures	Location/ Timing	Implementation	lm	plem Sta	enta ges*	tion	Relevant Legislation and	Status
	Measures		Agent	Des	С	0	Dec	Guidelines	
Waste Manag	ement								
	 C&D waste generation. The Contractor should recycle as much C&D materials as possible. Proper segregation of waste types on site to enhance reuse and recycling of materials. Designated areas for different materials storage should be assigned for segregation. Under the Construction Waste Disposal Charging Scheme, construction waste producers such as construction and renovation contractors and premises owners, prior using government waste disposal facilities, need to prepare a billing account with EPD and pay for construction waste disposal. It is expected that trip-ticket system should be implemented for surplus C&D materials disposal in accordance with ETWB TC(W) No.31/2004 and the Construction Waste Disposal Charging Scheme. Waste should be delivered to a public fill reception facility. Copies or counterfoils of trip tickets will be kept for record purpose. 							WBTC No. 19/2005 ETWB TC(W) No.31/2004	
S.4.68 –	Contaminated Materials - Further Contamination	Cremators,	FEHD, ArchSD,		√			ProPECC PN 2/97	٨
S.4.70	 Building structure of cremators, flues and chimney would likely to be contaminated by DCM ash due to long term servicing. As the cremators are still in operation, it is not possible to carry out site investigation in the areas of cremators, flues and chimney in this stage. To maintain uninterrupted cremation services, further site investigation in cremation rooms and associated equipments are proposed to undertake after decommissioning and prior to demolition of existing crematorium. 	chimney and flues areas/ After decommissioning but prior to demolition of the existing crematorium.	Contractor		,			ProPECC PN 3/94 APCO	

EIA Ref#	Environmental Protection Measures/Mitigation Measures	Location/ Timing	Implementation Agent	Im	plem Sta	entat ges*	tion	Relevant Legislation and	Status
	weasures		Agent	Des	С	0	Dec	Guidelines	
Waste Manag	ement								
	 According to the asbestos investigation report, asbestos gasket (woven) and insulation sheet were identified with ACM. It is also not possible to inspect all potential asbestos containing material locations due to on-going operation of cremators, concealed pipeline inside wall and covered up flange connection by metal cover. Further inspection of the inaccessible locations will be undertaken prior to demolition works. Contaminated ash and ACM potential contamination locations will be further indentified. In view of close distance between the contaminated ash and ACM, there is concern on contaminated ash wastes being embedded in ACM. Therefore, it is advisable to remove contaminated ash waste prior to any asbestos containing material on building structures. 								
S.4.72 – S 4.73	Asbestos Containing Materials Asbestos waste will be handled in accordance with the Code of practice on the Handling, Transportation and Disposal of Asbestos Waste issued by the Environment and Food Bureau. Production, collection and disposal of asbestos waste will follow the "trip-ticket" system. The registered asbestos contractor will be appointed a licensed asbestos waste collector to collect the packaged asbestos waste and deliver to the designated landfill for disposal. Notification has to be given to EPD for its, Ten working days notice of the intention to dispose of asbestos waste. After processing the notification, EPD will issue specific instructions and directions for disposal.	Cremator room in existing crematorium / before demolition	Contractor		√			COP on Handling, Transportation and Disposal of Asbestos Waste under the Waste Disposal (Chemical Waste)(General) Regulation	٨

EIA Ref#	Environmental Protection Measures/Mitigation	Leastion/Timir-	Implementation	lm		entat ges*	ion	Relevant	Ctotus
EIA Rei	Measures	Location/ Timing	Agent	Des	C	O	Dec	Legislation and Guidelines	Status
Waste Manag	ement			ı	1				
	 Procedure before leaving the work area; Workers should wear full protective equipment, nitrile gloves, robber boots and full-face positive pressure respirator; and Warning signs in both Chinese and English should be provided in conspicuous areas. Demolition and Handling The cremators / flue / chimney should be removed from top down. Any ash or residues attached to the cremators / flue / chimney or any other building structure should be removed by scrubbing and HEPA vacuuming; Waste generated from the containment or decontamination unit including the protection clothing of the workers should be disposed to landfill; and After removal, all surfaces should be decontaminated by HEPA vaccum. Treatment and Disposal Immobilise ash waste by proper mixing with cement as determined by the pilot mixing and Toxicity Characteristic Leaching Procedure (TCLP); Waste material should be placed in polyethylene lined steel drums for disposal at landfill, the drums should be 16 gauge steel or thicker and fitted with double bung fixed ends adequately sealed and well labeled in new or good condition. Drums should be clearly marked "DANGEROUS CHEMICAL WASTE" in English and Chinese. Prior agreement of the disposal criteria must be obtain from EPD and the landfill operator. 								

EIA Ref#	Environmental Protection Measures/Mitigation Measures	Location/ Timing	Implementation Agent	lm	•	enta ges*	tion	Relevant Legislation and	Status
	wedsures		Agent	Des	С	0	Dec	Guidelines	
Waste Manag	gement								
	As a fall back option, if landfill disposal criteria cannot be met after immobilization of the ash waste, disposal at the Chemical Waste Treatment Center (CWTC) should be considered.								
S.4.77	 Demolition, Handling, Treatment and Disposal of Severely Contaminated DCM from Demolition of Existing Crematorium Where the ash waste contains severely contamination levels of DCM (>10ppb TEQ), the following steps should be followed: Site Preparation Except the cremators / flue / chimney, all removable items should be removed as far as practicable to avoid obstructing the decontamination activities; Preliminary site decontamination of all debris should be carried out using High Efficiency Particulate Air (HEPA) vacuum cleaner; The walls, floor and ceiling of the cremator room where severely contaminated DCM should be lined with 3-layer chamber of fire retardant polyethene sheets. Top portion of the chimney above the roof should be enclosed by a 3-layer chamber of polyethene sheets; At the entrance to the cremators / flues / chimney, a 3-chamber decontamination unit should comprise a dirty room, a shower room and a clean room of at least 1m x 1m base with 3-layer of fire retardant polyethylene sheet where all workers would carry out decontamination procedures 	Cremator room in existing crematorium / before demolition	Contractor		√			APCO	N/A

	Environmental Protection Measures/Mitigation		Implementation	lm	plem	enta	tion	Relevant	
EIA Ref#		Location/ Timing	_		Sta	ges*		Legislation and	Status
	Measures		Agent	Des	С	0	Dec	Guidelines	
Waste Manag	ement								
	 before leaving the work area; Air movers should be installed at the cremator room, and at the bottom of the chimney to exhaust air from work area. A stand-by air mover should be installed with each of air movers. Sufficient air movement should be maintained to give a minimum of 6 air changes per hour to the work area; New pre-filters and HEPA filters should be used on the air movers. Before commencement of the decommissioning work, a smoke test with non-toxic smoke should be carried out to confirm the air tightness of the containment; Workers should wear full protective equipment, disposable protective coverall (such as Tyvek with shoe covers and hood), nitrile gloves, rubber boots and full-face positive pressure respirator equipped with a combination cartridge that filters particulate and removes organic vapour; and Warning signs in both Chinese and English should be provided in conspicuous areas. Decontamination, Demolition and Handling The cremators / flue / chimney should be removed from top down. Any ash or residues attached to the cremators / flue / chimney or any other building structure should be removed by scrubbing and HEPA vacuuming; The contaminated detached sections of the building structure where severely contaminated DCM is located should be wrapped with 2 layers of fire retardant polyethene sheets. A third layershould be wrapped and secured with duct tape. 								

EIA Ref#	Environmental Protection Measures/Mitigation	Location/ Timing	Implementation	lmį	olem Sta	entat ges*	tion	Relevant Legislation and	Status
	Measures		Agent	Des	С	0	Dec	Guidelines	
Naste Manag	ement								
	Decontaminate the outer layer of the wrapped flue sections by wet wiping; and - After completion of removal and decontamination, spary the innermost layer of the fire retardant polyethene sheet with PVA. Upon drying, peel off and dispose of at landfill site. - Treatment and Disposal - All contaminated ash waste with severely contaminated DCM removed and the used HEPA filters should be sent to Chemical Waste Treatment Center (CWTC) at Tsing Yi; and - Other waste including the building structures and its associated panels as well as waste generated from this decommissioning works are also considered as contaminated waste and should be disposed of at designated landfill. Waste generated from this decommissioning works refer to the polyethene wrapping sheets should be placed into appropriate containers for disposal. Permit has to be obtained from the Authority. Disposal trip ticket is required to be made available as record after disposal.								
S4.78	 Further investigation and confirmatory test for ash waste in cremator, chimney and flues should be carried out on DCM prior to the demolition of the existing crematorium. The sampling and analysis plan should be prepared and submitted to EPD for approval. 	Cremators, Chimneys and Flues / before demolition	Contractor		V			ProPECC PN 3/94 APCO	N/A
64.79	The mitigation measures stated in Section 4.75 to 4.78 of EIA report aim to address the detailed measures of avoiding cross contamination of DCM and ACM and should	Cremator room, cremators, chimney and flues areas/	Contractor		V				N/A

- Be covered to prevent rainfall from entering (water collection within the bund must be

EIA Ref#	Environmental Protection Measures/Mitigation Measures	Location/ Timing	Implementation Agent	lmį		entat	tion	Relevant Legislation and	Status
	iweasures		Agent	Des	С	0	Dec	Guidelines	
Waste Manag	ement								
	tested and disposal as chemical waste if necessary); and - Be properly arranged so that incompatible materials are adequately separated. - The chemical waste should be disposed of by: - A licensed waste collector; - A facility lisenced to receive chemical waste, such as CWTC at Tsing Yi, which offers chemical waste collection service and can supply the necessary storage containers; and - A waste recycling plant as approved by EPD.								
S.4.84 – S.4.85	 General Refuse General refuse should be stored in enclosed bins or compaction units separated from C&D and chemical wastes. Waste collector should be employed by the Contractor to minimize odour, pest and litter impacts. Open burning of refuse on construction site is prohibited by law. The Contractor should carry out an education programe for workers in avoiding, reducing, reusing and recycling. This should include provision of three-colour recycling bins and on site and posters and leaflets advising on the use of recycling bins. 	Project site / Construction and demolition stage	Contractor		√				۸
S.4.86- S.4.101	Operation Phase Ash and non-combustible residues The disposal of bone and non-combustible residues should be properly collected and handled to avoid dust emissions. In line with the current practices, the bone ash will be stored in covered containers for collection by the deceased's relatives within 2 months upon appointment while the non-combustible residues will be collected in sealed heavy-duty	New crematorium / Operation phase	FEHD			V		Code of Practice on Packaging, Labelling and Storage of Chemical Wastes. Waste Disposal (Chemical Waste)(General)	N/A

EIA Ref#	Environmental Protection Measures/Mitigation	Location/ Timing	Implementation	lmį		entat ges*		Relevant Legislation and	Status
	Measures		Agent	Des	С	0	Dec	Guidelines	
Waste Manag	ement								
	 Polyethene bags for disposal at landfill. Chemical Waste Chemical Waste Chemical waste generated from the air pollution system as well as from machinery maintenance and servicing should be managed in accordance with the Code of Practice on the Packaging, Labelling and storage of Chemical Wastes under the provisions of the Waste Disposal (Chemical Waste)(General) Regulation. The chemical waste should be collected by drum-type containers and removed by licensed chemical waste contractor. Plant / equipment maintenance schedules should be planned in order to minimize the generation of chemical waste. Non-recyclable chemical wastes and lubricants should be disposed at an appropriate facility, such as EPD Chemical Waste Treatment Centre at Tsing Yi. Copies or counterfoils from collection receipts issued by the licensed waste collector should be kept for record purpose. Fly Ash Collected and stored in sealed drums provided by the CWTC. Sealed drums are stored in a designated area and are periodically collected by CWTC (normally two to three weeks interval). Drums are taken to CWTC where they are incinerated and rendered harmless. Residues are then disposed of at landfill. General Refuse Waste generated in offices should be reduced through segregation and collection of recyclable waste materials (such as paper). To 							Regulation	

EIA Ref#	Environmental Protection Measures/Mitigatio	n Location/ Timing	Implementation Agent	lm	plem Sta	enta ges*		Relevant Legislation and	Status
	iwiedsures		Agont	Des	С	0	Dec	Guidelines	
Waste Manaç	ement								
	promote recycling of waste paper, aluminu cans and plastic bottles, it is recommended place clearly labeled recycling bins designated locations. The recyclable was materials should be collected by license collectors: - General refuse, other than segregate recyclable wastes, should be separated fro any chemical waste and stored in coved skip Food and Environmental Hygiene Departme (FEHD) should remove general refuse fro the site on daily basis to minimize odour, pe and litter impacts. Also open burning of refus must be strictly prohibited.	d d m s. nt m							
S.10.5 –	EM&ATo maintain uninterrupted cremation service	Cremators,	Contractor					ProPECC PN 2/97 and 3/94	۸
S.10.6	further site investigations are recommende	d. chimney, flues and						and 5/34	
	Building structures asbestos investigation ar dioxins ash waste investigation a							AIR,AMP/AAP to	
	recommended around cremators, chimne	-						be sumitted under	
	flues and surrounding areas.	decommissioning						APCO	
		and prior to						F. with an Oite	
		demolition						Further Site Investigation Plan	

[#] All recommendations and requirements resulted during the course of EIA Process, including ACE and / or accepted public comment to the proposed project.

Table 12.3 Implementation Schedule for Land Contamination

EIA Ref#	Environmental Protection Measures /	Location /	Implementation	lmį		entat ges*	ion	Relevant Legislation and	Status
	Mitigation Measures	Timing	Agent	Des	С	0	Dec	Guidelines	
Land Contamina	tion								
5.29	Since the cremators are still in operation the	Pipeline,	Contractor				√	Guidance Note	٨
	proposed trial pit location, TP-1, is	Cremator Rooms						for Contaminated	
	possessed by CEDD, it is not possible to	1 and 2 / before						Land Assessment	
	carry out site investigation inside the	demolition of the						and Remediation;	
	cremation rooms and at TP-1 at this stage.	existing cremators							
	Further site inspection of TP-1 and two							Guidance Notes	
	cremation rooms shall be carried out after							for Investigation	
	decommissioning and prior to the demolition							and Remediation	
	of the existing crematorium. A							of Contaminated	
	supplementary CAP shall be prepared for							Sites of: Petrol	
	EPD endorsement to present detailed							Filling Stations,	
	sampling and testing plan for two cremation							Boatyards, and	
	rooms. Further SI of TP-1 shall be conducted							Car Repair /	
	in accordance with the approved CAP.							Dismantling	
	Findings of site investigation and appropriate							Workshops;	
	remediation methods shall be presented in								
	supplementary CAR and RAP for EPD							Guidance Manual	
	endorsement prior to the commencement of							for Use of	
	any earthworks. The extent of							Risk-Based	
	contamination, if any, should be estimated							Remediation	

EIA Ref#	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Imp	olem Staç	entat ges*	ion	Relevant Legislation and	Status
	Mitigation Measures	Timing	Agent	Des	С	0	Dec	Guidelines	
Land Contaminat	tion								
	based on the depth where contaminants							Goals for	
	found, the hydrogeological condition and the							Contaminated	
	contaminants levels. The actual extent would							Land	
	be determined by confirmatory sampling and							Management;	
	testing.							and	
5.40	Cement solidification / stabilization	Near underground	Contractor				V	EIAO-TM	N/A
	technique is considered as the most	storage tank /							
	practical and cost-effective method to treat	During soil							
	the metals contaminated soil on site.	treatment							
5.43 -5.44	Confirmatory soil sampling for closure	Near underground	Contractor				√		٨
	assessment should be carried out to confirm	storage tank /							
	the clean-up of the contaminated soil.	During soil							
		treatment							
5.46	Upon completion of cement solidification /	Near underground	Contractor				√		N/A
	stabilization, confirmation sampling and	storage tank /							
	testing shall be undertaken to ensure the	During soil							
	cleanup targets have been attained.	treatment							
5.49	If contaminated soil is found underneath the	Pipeline,	Contractor				√		N/A
	pipeline and at cremator rooms from the	Cremator Rooms							
	further SI, depending on the contamination	1 and 2 / before							
	extent, possible remediation methods for	demolition of the							

	Environmental Protection Measures /	Location /	Implementation	lm	olem	entat	ion	Relevant	
EIA Ref#	Mitigation Measures	Timing	Agent		Sta	ges*		Legislation and	Status
	miligation measures	Tilling	Agent	Des	С	0	Dec	Guidelines	
Land Contamination	on								
	organic contaminants could be excavation	existing cremators							
	and biopiling as well as in-situ soil venting. If								
	the volume of contaminated is found to be								
	small and the aforesaid remediation								
	methods is infeasible and impracticable,								
	excavation and landfill disposal could be								
	considered as last resort. Closure								
	assessment in accordance with Sections								
	5.43 to 5.44 of EIA Report shall be carried								
	out in order to confirm the clean-up of								
	contaminated soil. The remediation method								
	should be determined in the supplementary								
	RAP according to the laboratory results and								
	estimated quantity of contaminated soil.								
5.50	During removal of the underground storage	Underground	Contractor				√	Occupational	N/A
	tank, appropriate precautions should be	storage tank						Safety & Health	
	taken to avoid contamination. All fuel tank	system / before						Ordinance;	
	and associated pipework should be emptied	demolition of the						Guidelines on	
	prior to any demolition work being	existing cremators						Occupational	
	undertaken. Any remaining sludge or							Exposure	
	sediment in the tanks or pipework should be								
	removed and disposed of as chemical waste								
	in accordance with the appropriate								

EIA Ref#	Environmental Protection Measures /	Location /	Implementation	lmp	olem Staç	entat ges*	ion	Relevant Legislation and	Status
	Mitigation Measures	Timing	Agent	Des	С	0	Dec	Guidelines	
Land Contaminati	ion								
	regulation for disposal of such material.								
	After removal of the underground storage								
	tank, confirmatory soil sample(s) underneath								
	the tank should be collected and tested for								
	TPH, VOCs and Pb using the same								
	approach as mentioned in Sections 5.43 and								
	5.44 of EIA Report to ensure that no								
	contamination due to fuel leakage.								
5.57 – 5.58	The following basic health and safety	At contaminated	Contractor				√	Occupational	N/A
	measures should be implemented as far as	and soil treatment						Safety & Health	
	possible:	areas/ During soil						Ordinance;	
	Set up a list of safety measures for site	treatment						Guidelines on	
	workers;							Occupational	
	Provide written information and training							Exposure	
	on safety for site workers;								
	Keep a log-book and plan showing the								
	contaminated zones and clean zones;								
	Maintain a hygienic working environment;								
	Avoid dust generation;								
	Provide face and respiratory protection								
	gear to site workers;								
	Provide personal protective clothing (e.g.								
	chemical resistant jackboot, liquid tight								

EIA Ref#	Environmental Protection Measures / Mitigation Measures	Location /	Implementation Agent	Implementation Stages*		ion	Relevant Legislation and	Status	
	witigation weasures	Tilling	Agent	Des	С	0	Dec	Guidelines	
Land Contamina	tion								
	gloves) to site workers; and								
	Provide first aid training and materials to								
	site workers.								
	The Contractor for the excavation works								
	shall take note of the following points for								
	excavation:								
	Excavation profiles must be properly								
	designed and executed;								
	In case the soil to be excavated is								
	situated beneath the groundwater table, it								
	may be necessary to lower the								
	groundwater table by installing well points								
	or similar means. The discharge of								
	groundwater, if any, should follow the								
	requirements under the Water Pollution								
	Control Ordinance (WPCO);								
	Excavation zone should be fenced off;								
	Quantities of soil to be excavated must								
	be estimated;								
	It may be necessary to split quantities of								
	soil according to soil type, degree and								
	nature of contamination;								
	Temporary storage of soil at intermediate								

EIA Ref#	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	lm	plem Sta	entat ges*	ion	Relevant Legislation and	Status
	willigation weasures	Timing	Agent	Des	С	0	Dec	Guidelines	
Land Contamina	tion								
	depot or on-site may be required. The								
	storage site should include protection								
	facilities for leaching into the ground e.g.								
	a liner may be required;								
	Supply of suitable clean backfill material								
	is needed after excavation;								
	Care must be taken of existing buildings								
	and utilities; and								
	Precautions must be taken to control of								
	ground settlement.								
	should be disposed of in accordance with								
	the WPCO.								
5.60	The following mitigation measures are	At contaminated	Contractor				√	Occupational	N/A
	recommended to be implemented during	and soil treatment						Safety & Health	
	CS/S processes.	areas/ During soil						Ordinance;	
	Air Quality Impact	treatment						Guidelines on	
	The loading, unloading, handling, transfer							Occupational	
	or storage of cement should be carried							Exposure	
	out in an enclosed system.								
	The loading, unloading, handling, transfer								
	or storage of other materials which may								
	generate airborne dust emissions such								
	as untreated soil and oversize materials								

EIA Ref#		Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Implementation Stages*			ion	Relevant Legislation and	Status
		witigation weasures	riiiiig	Agent	Des	С	0	Dec	Guidelines	
Land Contaminat	ion									
		sorted out from the screening plant and								
		stabilized soil stockpiled in the								
		designated handling area, should be								
		carried out in such a manner to prevent								
		or minimise dust emissions. These								
		materials should be adequately wetted								
		prior to and during the loading, unloading								
		and handling operations.								
	•	All practicable measures should be taken								
		to prevent or minimize the dust emission								
		caused by vehicle movement.								
		Noise Impact								
	•	The mixing area should be sited as far as								
		practicable to nearby noise sensitive								
		receivers.								
	•	Simultaneous operation of mixing plants								
		and other equipment should be avoided.								
	•	Mixing process and other associated								
		material handling activities should be								
		properly scheduled to minimise potential								
		cumulative noise impact on nearby noise								
		sensitive receivers.								
	•	Construction Noise Permit should be								

EIA Ref#		Environmental Protection Measures /	Location /	Implementation	lmţ	olem Staç	entat ges*	ion	Relevant Legislation and	Status
		Mitigation Measures	Timing	Agent	Des	С	0	Dec	Guidelines	
and Contamina	tion									
		applied for the operation of powered								
		mechanical equipment, if any, during								
		restricted hours.								
		Water Quality Impact								
	•	Stockpile of untreated soil should be								
		covered as far as practicable to prevent								
		the contaminated material from leaching								
		out. The leachate should be discharged								
		following the requirements of Water								
		Protection Control Ordinance.								
		<u>Waste</u>								
	•	The oversize materials such as rocks and								
		boulders should be screened out,								
		cleaned the soil attached and used as								
		filling material within the site.								
		Contaminated materials (soil or rock								
		fragments) of size smaller than 5 cm								
		should be collected and transferred to the								
		mixing area for decontamination								
		treatment.								
	•	Stabilized soils should be broken into								
		suitable size for backfilling or reuse on								
		site.								

EIA Ref#	Environmental Protection Measures / Mitigation Measures	Protection Measures / Location / Implementation Sta		Implementation Stages*			ion	Relevant Legislation and	Status
	ivitigation Measures	Timing	Agent	Des	С	0	Dec	Guidelines	
Land Contamination	n								
	 A high standard of housekeeping should be maintained within the mixing area. There should be clear and separated areas for stockpiling of untreated and treated materials. 								

[#] All recommendations and requirements resulted during the course of EIA Process, including ACE and / or accepted public comment to the proposed project.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Im	•	entat ges*	ion	Relevant Legislation and Guidelines	Status
"	Measures		Agent	Des	С	0	Dec		
Visual Im	pact								
Table	Construction & Demoliton Phase	Work site / During		√					٨
6.4	Topsoil, where identified, should be stripped and	Construction	O a matura a ta u						
	stored for re-use in the construction of the soft	Phase	Contractor						
	landscape works, where practical.								
		Work site / During		V					#
	Existing trees to be retained on site should be carefully protected during construction.	Construction	Contractor					FIAO TM	
		Phase							
	Trees unavoidably affected by the works should be	Work site / During	Contractor	V				EIAO-TM	٨
		Construction						Annex 10, 18	
	transplanted where practical.	Phase						ETWB TCW	
	Compensatory tree planting should be provided to	Work site / During		√	√			2/2004	٨
		Construction	Contractor					3/2006	
	compensate for felled trees.	Phase						3/2006	
		Work site / During							٨
	Control of night-time lighting.	Construction	Contractor						
		Phase							
	Erection of decorative screen hoarding compatible with the surrounding setting. Work site / During Construction Phase	Work site / During							٨
		Construction	Contractor						

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	lm	-	entat ges*	ion	Relevant Legislation and	Status
	Weasures			Des	С	0	Dec	Guidelines	
Visual Im	pact								
Table	Operation Phase	Work site / During		√		√			N/A
6.5	Aesthetic design of the façade/chimneys/noise	Design Stage and	FEHD						
	barriers and associated structures to harmonize	Operation Phase	renu						
	with the surrounding settings.							FIAC TM	
		Work site / During		√		√		EIAO-TM	N/A
	Aesthetic design of landscaped roof.	Design Stage and	FEHD					Annex 10, 18 ETWB TCW	
		Operation Phase						2/2004	
		Work site / During		√		√		ETWB TCW	N/A
	Tree and shrub planting to enhance amenity	Design Stage and	FEHD					3/2006	
		Operation Phase						3/2006	
		Work site / During		√		√			N/A
	Reinstated of disturbed area.	Design Stage and	FEHD						
		Operation Phase							

[#] All recommendations and requirements resulted during the course of EIA Process, including ACE and / or accepted public comment to the proposed project.

Monthly Environmental Monitoring and Audit Report

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			ion	Relevant Legislation and	Status
	Measures		Agent	Des	С	0	Dec	Guidelines	
Noise									
S7.49	Construction Phase	Work site / During	Contractor		V			EIAO-TM,	٨
	Use of quiet PME for excavator/loader, soil nailing	construction and						GW-TM, NCO	
	drilling machine, rock dowel drilling machine,	demolition phase							
	bulldozer, dump truck and crawler mounted rock								
	drill.								
S7.52	Good Site Practice:	Work site / During	Contractor		V			EIAO-TM,	٨
		construction and						GW-TM, NCO	
	 Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program; Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program; Mobile plant, if any, should be sited as far from NSRs as possible; Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and 	demolition phase							
	Material stockpiles and other structures								
	should be effectively utilised, wherever								
	practicable, in screening noise from on-site								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	lm	•	entat ges*	ion	Relevant Legislation and	Status
	Measures		Agent	Des	С	0	Dec	Guidelines	
Noise									
	construction activities.								
S7.53	Operation Phase	Upper roof of the	ArchSD, FEHD	$\sqrt{}$		√		EIAO-TM, NCO	N/A
	Provision of 2.5m high acoustic barriers for a total	crematorium /							
	of 10 radiators. The noise barrier would be lined	During operation							
	with sound absorbing material at the surface of the	phase							
	barrier facing the noise source.								

[#] All recommendations and requirements resulted during the course of EIA Process, including ACE and / or accepted public comment to the proposed project.

EIA Ref#	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	lm	-	entat ges*	ion	Relevant Legislation and	Status	
	witigation weasures		Agent	Des	С	0	Dec	Guidelines		
Water Qualit	y									
S8.30 to S8.52	The measures as outlined in the ProPECC PN 1/94 should be followed where applicable.	Work site / during construction and demolition phase	Contractor		√			Technical Memorandum on the Environmental Impact Assessment Process (EIAO-TM) Water Pollution Control Ordinance (WPCO) Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal	#	
S8.3 and	There is a need to apply to EPD for a discharge	Work site / during	Contractor		√			Waters (TM-DSS) EIAO-TM, WPCO,	۸	
S8.53	licence under the WPCO for discharging effluent	construction and						TM-DSS		
	from the construction site. The discharge quality	demolition phase								
	is required to meet the requirements specified in									
	the discharge licence. All the runoff, wastewater									
	or extracted groundwater generated from the									
	works areas should be treated as necessary so									
	that it satisfies all the standards listed in the									

EIA Ref#	Environmental Protection Measures /	Location / Timing	Implementation	lm		entat ges*	ion	Relevant Legislation and	Status
	Mitigation Measures		Agent	Des	С	0	Dec	Guidelines	
Water Qualit	у								
	TM-DSS.Monitoring of the construction site effluent quality should be carried out in accordance with the WPCO license which is under the ambit of regional office (RO) of EPD.								
S8.54	Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor would be responsible for appropriate disposal of waste matter and maintenance of these facilities.	Work site / during construction and demolition phase	Contractor		√			EIAO-TM, WPCO, TM-DSS	۸
S8.55	Good site practices should be adopted to remove rubbish and litter from construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis. Stockpiles of cement and other construction materials should be kept covered when not being used.	Work site / during construction and demolition phase	Contractor		V			EIAO-TM, WPCO, TM-DSS	^
S8.56	Oils and fuels should only be used and stored in	Work site / during	Contractor		√			EIAO-TM, WPCO,	#

EIA Ref#	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	lm	plem Sta	entat ges*		Relevant Legislation and	Status
	witigation measures		Agent	Des	С	0	Dec	Guidelines	
Water Qualit	ty .								
	designated areas which have pollution	construction and						TM-DSS	
	prevention facilities. To prevent spillage of fuels	demolition phase							
	and solvents to the nearby watercourse, all fuel								
	tanks and storage areas should be provided with								
	locks and be sited on sealed areas, within bunds								
	of a capacity equal to 110% of the storage								
	capacity of the largest tank. The bund should								
	be drained of rainwater after a rain event. Oil								
	leakage or spillage should be contained and								
	cleaned up immediately.								
S8.57	Handling and disposal of operation stage effluent	Project site /	FEHD					EIAO-TM, WPCO,	۸
	should follow the practices outlined in ProPECC	during design and						TM-DSS	
	PN 5/93 where applicable.	operation phase							

All recommendations and requirements resulted during the course of EIA Process, including ACE and / or accepted public comment to the proposed project.

Remarks:	^	Compliance of mitigation measure;	X	Non-compliance of mitigation measure;
	N/A	Not Applicable;	•	Non-compliance but rectified by the contractor
	#	Recommendation was made during site audit but improved/rectified by the	*	D = Design, C = Construction, O = Operation
		contractor.		

APPENDIX N COMPLAINT LOG

APPENDIX N - COMPLAINT LOG

Reporting Month: October 2013

Log Ref.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Remarks: No environmental complaint was received in the reporting month.

APPENDIX O CONSTURCTION PROGRAMME





Our Ref.: CH/P/ASD/327/GEN/13/05/1771

By E-mail & by Hand

22 May 2013

Andrew Lee King Fun & Associates Architects Limited 19/F., Universal Trade Centre, 3 Arbuthnot Road, Central, Hong Kong

Attn.: Mr. Franklin Yu (Associate Director)

Dear Sirs,

Contract No. SS W327
Reprovisioning of Cape Collinson Crematorium
Re: Master Programme MP-03F

We refer to your letter ref. A-0727/7MC/MAR.13/48L dated 25th March 2013, we would like to submit herewith the revised Master Programme MP-03F for your comment and approval.

Thank you for your kind attention.

Yours faithfully, For and on behalf of Cheung Hing Construction Co., Ltd.

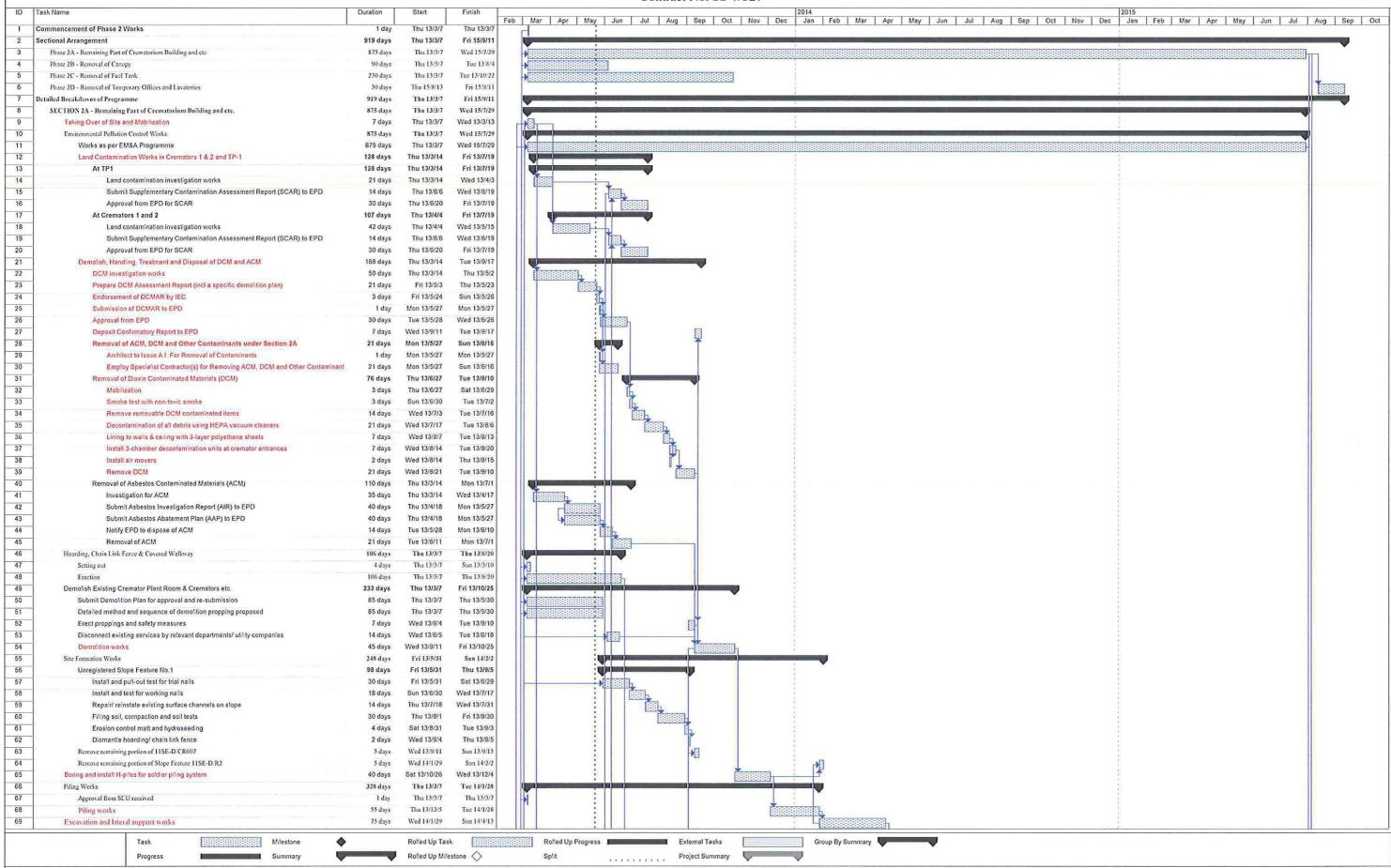
Mr. Dennis HO DH/ek SITE AGENT

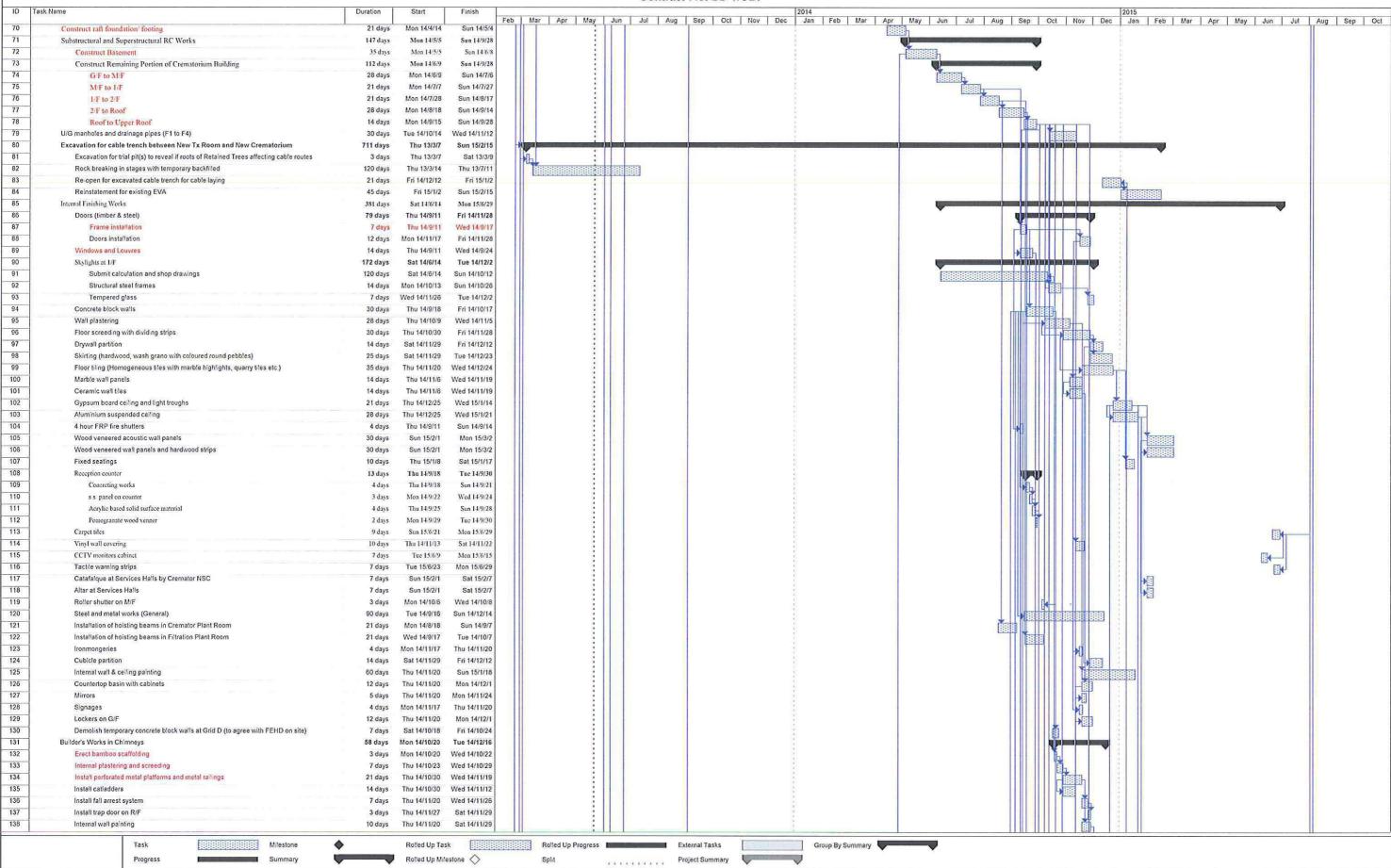
Encl.

c.c.	ArchSD – Ms. Denise Lo (PM360)	(w/e)	(Fax No.: 2523 9622)
	ArchSD – Mr. KWOK Wing Sun (PM363)		(Fax No.: 2290 2152)
	ArchSD – Mr. Yiu Hak-hung (ER/COW)	(w/e)	(Fax No.: 2911 4706)
	ArchSD – Mr. W.K.Lee (LBSE)	(w/e)	(Fax No.: 2765 3496)
	ArchSD – Mr. Wong En Ming (ER/BSI)	(w/e)	(Fax No.: 2505 1586)
	ArchSD – Mr. Lee Ka Wing (ER/EMI)	(w/e)	(Fax No.: 2801 4711)
	Meinhardt (C&S) – Mr. Paul Cheng	(w/e)	(Fax No.: 2517 6107)
	Meinhardt (M&E) - Mr. T. K. Chan	(w/e)	(Fax No.: 2559 1613)
	Northcroft – Mr. William Siu	(w/e)	(Fax No.: 2893 3601)
	Urbis – Mr. Tuan Huy Tran (LA)	(w/e)	(Fax No.: 2802 8662)
	IEC – Mr. James Choi	(w/e)	(Fax No.: 3007 8556)
	PCOW – Mr. P.K. Leung	(w/e)	(By Hand)
	RE - Mr. Ben Wong	(w/e)	(By Hand)
	PBSI – Mr. Raymond Cheng	(w/e)	(By Hand)
	PEMI – Mr. Prince Wong	(w/e)	(By Hand)
	ET Leader – Dr. Priscilla Choy	(w/e)	(Fax No.: 3107 1388)
	Southa – Mr. Daniel Wong	(w/e)	(Fax No.: 2963 7102)
	Anlev Elex – Mr. Rason Cheung	(w/e)	(Fax No.: 2565 7638)

We love the Earth

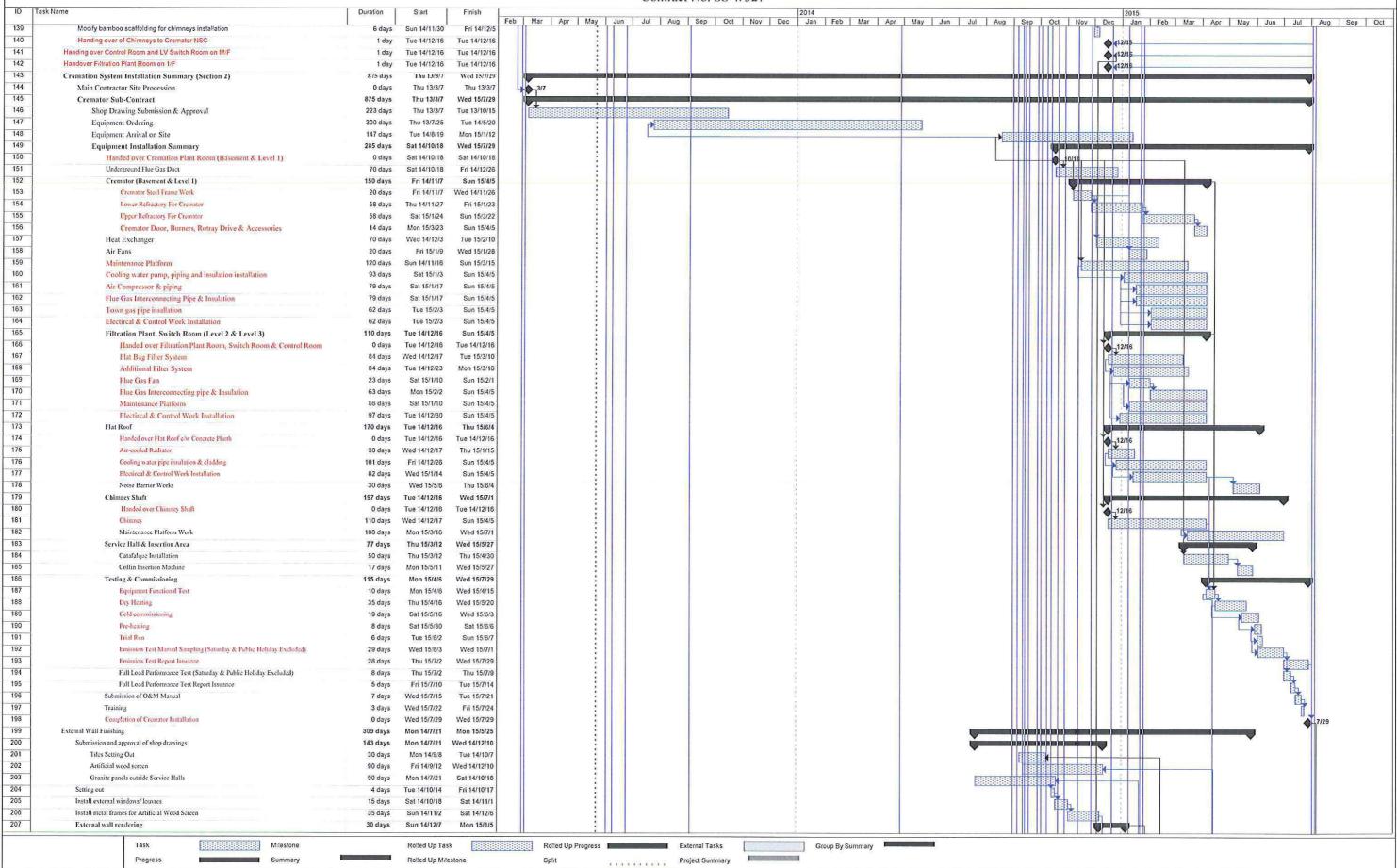
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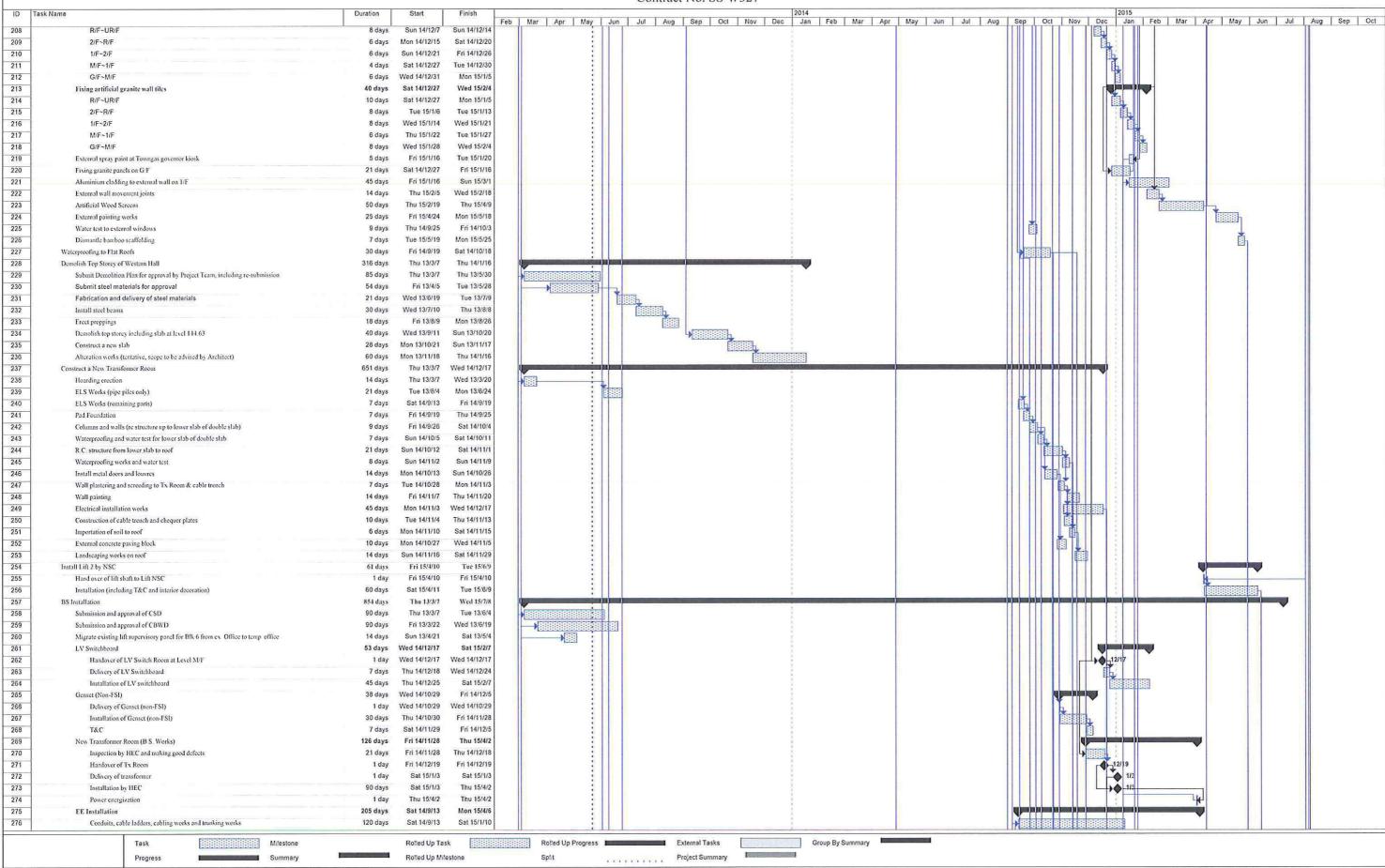


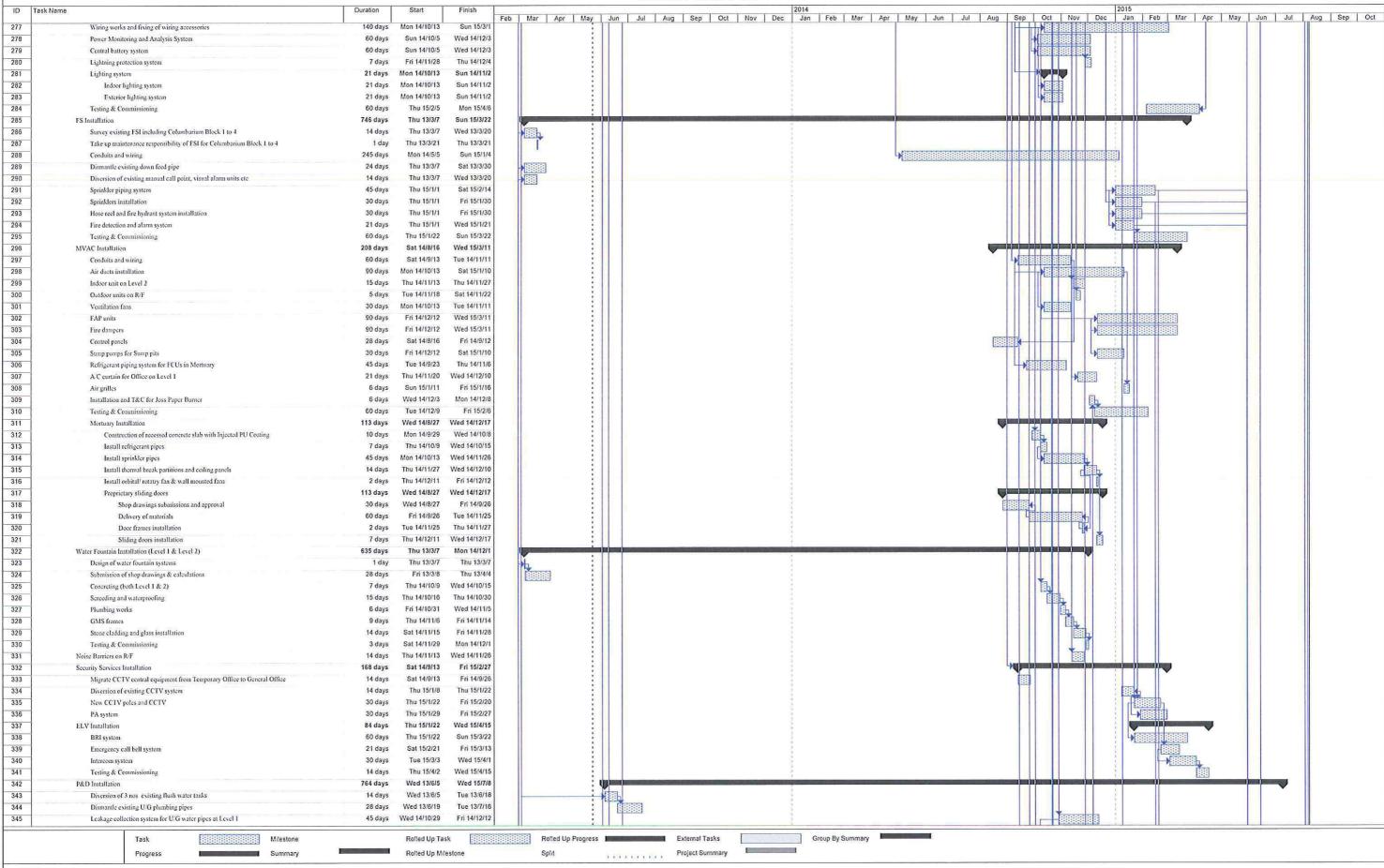


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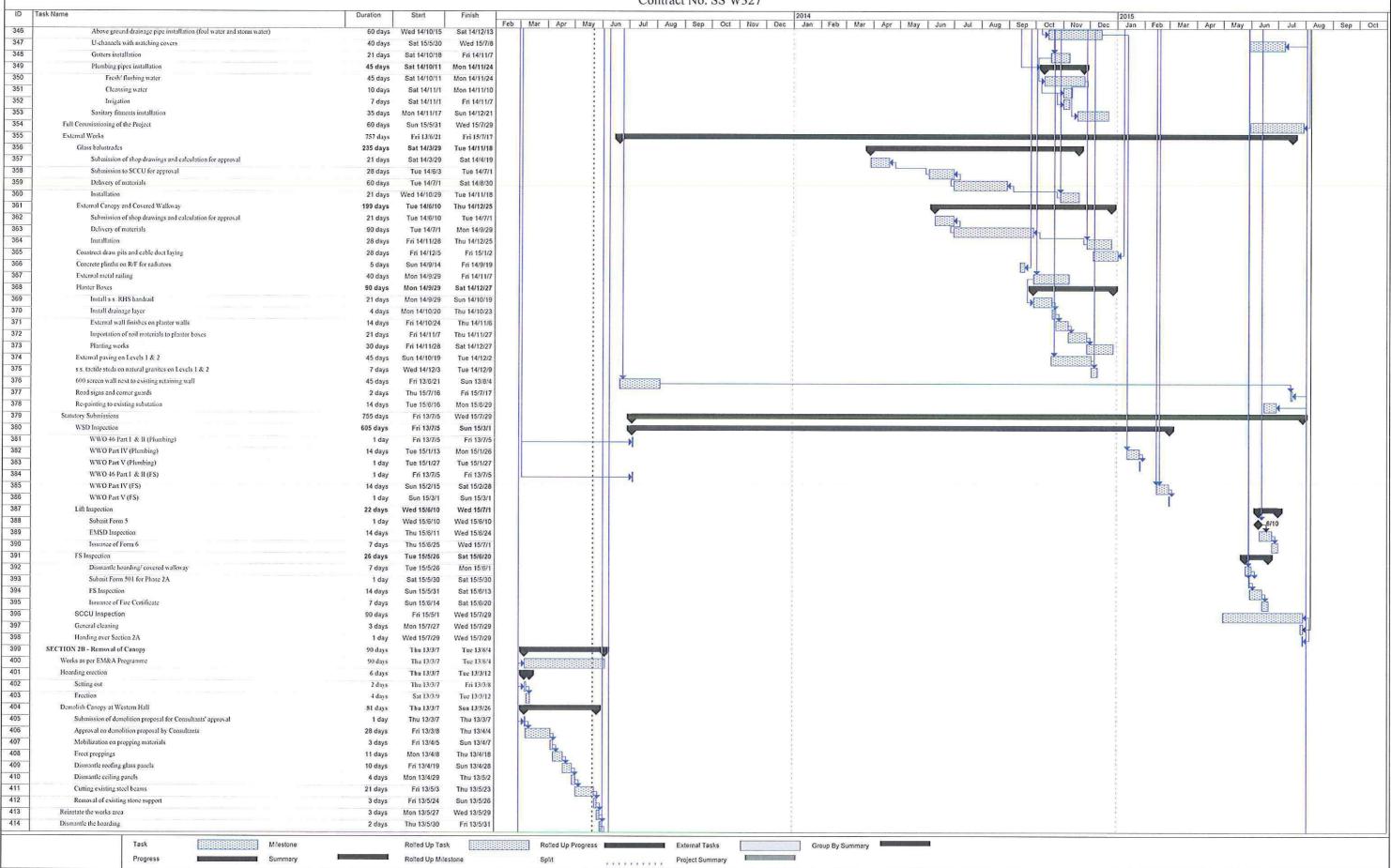
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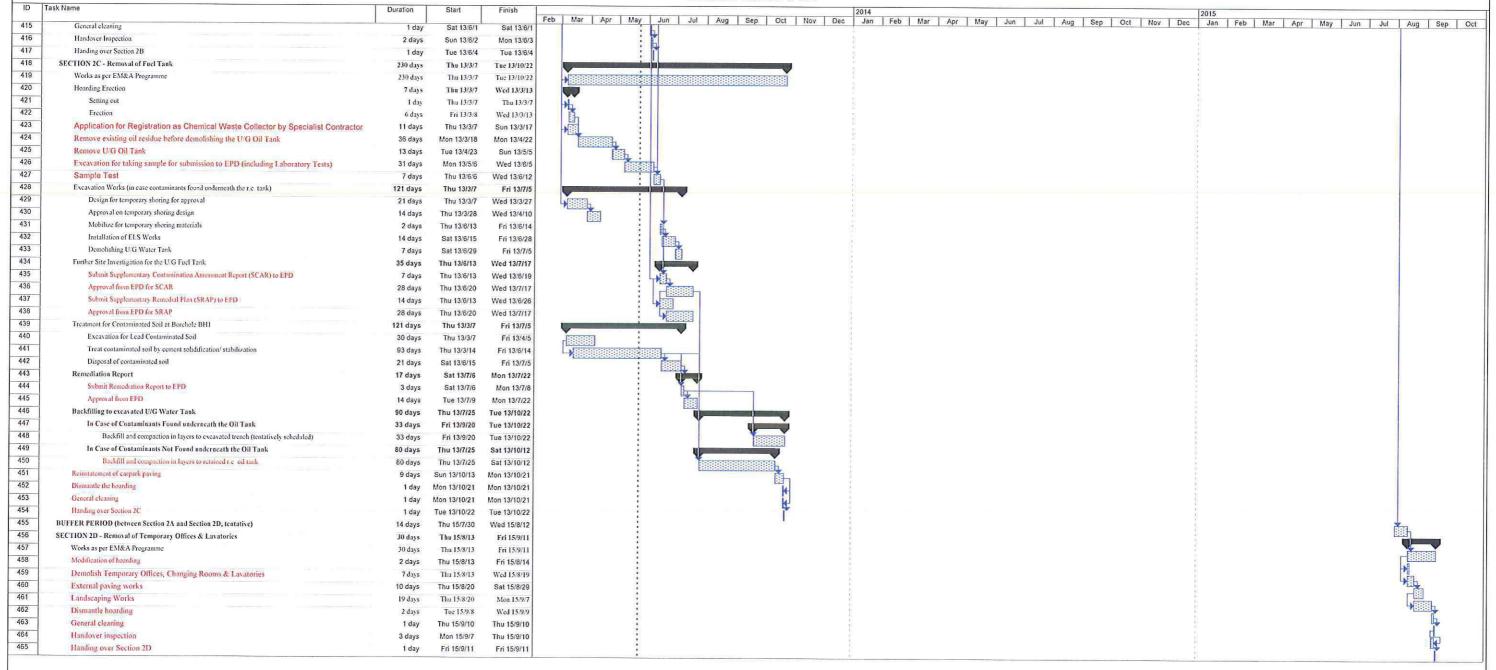






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Task	Milestone		Rolled Up Task	Rolled Up Progress	THE DIVISION OF THE PARTY OF	External Tasks	Group By S	by Summary
Progress	Summary	and the second second	Rolled Up Milestone	Split		Project Summary		