China Resources Construction Company Limited

Contract No. SS M333

Reprovisioning of Diamond Hill Crematorium

Quarterly EM&A Summary Report for February to April 2008

July 2008

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Version: Revision 0 Date: 22 July 2008

The information contained in this report is, to the best of our knowledge, correct at the time of printing. The interpretation and recommendations in the report are based on our experience, using reasonable professional skill and judgment, and based upon the information that was available to us. These interpretations and recommendations are not necessarily relevant to any aspect outside the restricted requirements of our brief. This report has been prepared for the sole and specific use of our client and ENSR Asia (HK) Ltd. accepts no responsibility for its use by others.

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TABLE OF CONTENTS

		Page
EXEC	CUTIVE S	UMMARY
1.	INTROD	UCTION 1
2.	PROJEC	T CHARACTERISTICS 1
	Project (Constru	Organization and Contacts of Key Management 1 ction Activities in the Quarter 1
3.	ENVIRO	NMENTAL MONITORING AND AUDIT REQUIREMENTS2
	Environ	ng Parameters and Locations
4.	MONITO	RING RESULTS2
		ity
5.	AUDIT R	ESULTS3
		ntation Status of Environmental Mitigation Measures3
		on Waste Management Status
6.	NON-CO LIMITS (MPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE ACTION AND LIMIT LEVELS)4
	Review of	y of Exceedances
7.	ENVIRO	NMENTAL COMPLAINTS4
8.	NOTIFIC	ATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS4
9.	COMME	NTS, CONCLUSIONS AND RECOMMENDATIONS5
List o	f Tables 5.1	Summary of Waste Disposal in The Quarter4
List o Figure Figure Figure Figure Figure	2.2 3.1 3.2	Project Organisation for Environmental Management Layout of Work Site Locations of Air Quality Monitoring Stations Locations of Construction Noise Monitoring Stations Complaint Flow Diagram
Apper Apper Apper Apper Apper Apper Apper Apper	ndix B ndix C ndix D ndix E ndix F ndix G	Key Contacts of Environmental Personnel Environmental Monitoring and Audit Programme Environmental Action and Limit Levels Graphical Presentation of Air Quality Monitoring Results Graphical Presentation of Construction Noise Monitoring Results Implementation Schedule of Mitigation Measures Status of Environmental Permits/Licences Cumulative Statistics on Complaints, Notification of Summons and Successful Prosecutions
		ENSR AECOM

Reprovisioning of Diamond Hill Crematorium Quarterly EM&A Summary Report for February to April 2008 (Revision 0)
EXECUTIVE SUMMARY
This report summarizes the EM&A works performed in the period from 1 February to 30 April 2008. In the reporting quarter, the following activities took place for the construction of the Project:
 Construction for footing and U/G services; Construction for substructure of AVG tunnel, U/G service, soil backfilling and lift shaft; and Construction for substructure of Service Hall, U/G service, soil backfilling and lift shaft.
For air quality, all 1-hour and 24-hour TSP monitoring results recorded in the quarter complied with the Action and Limit (AL) Levels.
For noise, all noise monitoring results recorded in the quarter complied with the Action and Limit Levels.
In general, the Contractor satisfactorily implemented all the required mitigation measure and was reasonably responsive to the ET's recommendations on any discrepancy observed during the weekly environmental site inspection.
No environmental complaint, notification of summons or successful prosecution was received or made against this Project in the quarter.
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1. INTRODUCTION

- 1.1 ENSR Asia (HK) Limited (formerly Maunsell Environmental Management Consultants Limited) (hereinafter called the "ET") was appointed by China Resources Construction Company Limited (CRC) (hereinafter called the "Contractor") to undertake Environmental Monitoring and Audit for "Reprovisioning of Diamond Hill Crematorium" (hereinafter called the "Project"). Under the requirements of Section 7 of Environmental Permit EP-179/2004/C, EM&A programme as set out in the approved EM&A Manual is required to be implemented. In accordance with the approved EM&A Manual, environmental monitoring of air quality and noise and environmental site inspections are required for the Project.
- 1.2 This is the fourteenth Quarterly EM&A Summary Report prepared by the ET summarizing the EM&A works performed from 1 February to 30 April 2008.

2. PROJECT CHARACTERISTICS

Project Organization and Contacts of Key Management

An organization structure and the line of communication were set up for the Project between the Environmental Protection Department (EPD), the Architect, Independent Environmental Checker (IEC), the Contractor and the Environmental Team (ET). The project organization and contact details of key management are shown in Figure 2.1 and Appendix A respectively.

Construction Activities in the Quarter

- 2.2 The following activities took place for the construction of the Project in the quarter:
 - · Construction for footing and U/G services;
 - Construction for substructure of AVG tunnel, U/G service, soil backfilling and lift shaft; and
 - Construction for substructure of Service Hall, U/G service, soil backfilling and lift shaft.
- 2.3 Layout plan of the Project work site is provided in Figure 2.2.

	risioning of Diamond Hill Crematorium rly EM&A Summary Report for February to April 2008 (Revision 0)							
3.	ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENTS							
	Monitoring Parameters and Locations							
3.1	The EM&A Manual designates locations for the ET to monitor environmental impacts in terms of air quality and noise. The air quality and noise monitoring stations for the Project are shown in Figures 3.1 to 3.2. Appendix B gives the details of the monitoring requirements.							
	Environmental Quality Performance Limits (Action and Limit Levels)							
3.2	The environmental quality performance limits, i.e. Action and Limit Levels (AL Levels) were derived from the baseline monitoring results and/or other approaches as detailed in the approved EM&A Manual. Should the measured environmental quality parameters exceed the AL Levels, the respective action plans would be implemented. The AL Levels for each environmental parameter are given in Appendix C.							
	Environmental Mitigation Measures							
3.3	Relevant mitigation measures as recommended in the Project EIA had been stipulated in the approved EM&A Manual for the Contractor to adopt. A list of environmental mitigation measures is given in Appendix F.							
4.	MONITORING RESULTS							
	Air Quality							
4.1	1-hour and 24-hour TSP monitoring were carried out for ASR8 and ASR17 in the quarter. Graphical presentations of 1-hour and 24-hour TSP monitoring results are provided in Appendix D.							
	Noise							
4.2	Noise monitoring was carried out at SR3, 4 and 6 in the quarter. Graphical presentations of the noise monitoring results are provided in Appendix E.							
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5. AUDIT RESULTS

Implementation Status of Environmental Mitigation Measures

During the weekly site inspection conducted by the ET in the quarter, the following observations and recommendations were made.

Water Quality

- Stagnant water was accumulated on site. The Contractor was reminded to clean up the stagnant water regularly.
- The Contractor was reminded to cover the temporary exposed slopes properly.
- The Contractor was reminded to maintain the drainage system regularly.

Air Quality

 No particular observations and recommendations were made during the weekly site inspections in the quarter.

Noise

• New Construction Noise Permit was posted at site entrance.

Waste or Chemical Management

- The Contractor was reminded to place the recycling bins for plastic and papers on site.
- The Contractor was reminded to sort the general refuse and C&D wastes properly and identified the designated area to store the general refuse and C&D wastes respectively.
- The Contractor was reminded to handle the chemical waste properly.

Landscape and Visual

 No particular observations and recommendations were made during the weekly site inspections in the quarter.

Others

 No particular observations and recommendations were made during the weekly site inspections in the month.

The updated status of the Environmental Mitigation Implementation Schedule (EMIS) is provided in Appendix F.

Status of Environmental Licences and Permit

The status of all permits/licences obtained/in-use in the quarter is summarised in Appendix G.

Advice on Waste Management Status

The actual quantities of inert C&D materials and non-inert C&D wastes generated by activities of the Project in the quarter are provided in Table 5.1. Trip ticket system was implemented for all offsite waste disposals.

Table 5.1 Summary of Waste Disposal in The Quarter

Type of Waste Material		Disposed Quantity			Destination	
		Feb 08	Mar 08	Apr 08		
Inert C&D m	aterials	14.39 m ³	Nil	Nil	Kai Tak Public Fill Barging Point	
Non-inert C&D waste	Metals	Nil	Nil	Nil	Not Applicable	
	Paper/cardboard packaging	Nil	Nil	Nil	Not Applicable	
	Plastics	Nil	Nil	Nil	Not Applicable	
	Chemical waste	Nil	Nil	Nil	Not Applicable	
	Others, e.g. general refuse	15.91 m ³	12.68 m ³	6.77 m ³	SENT Landfill	

6.	NON-COMPLIANCE	(EXCEEDANCES)	OF	THE	ENVIRONMENTAL	QUALITY
	PERFORMANCE LIM	ITS (ACTION AND I	LIMI	T LEV	ELS)	

Summary of Exceedances

- 6.1 All 1-hour and 24-hour TSP monitoring results recorded in the quarter complied with the AL Levels.
- 6.2 All noise monitoring results recorded in the quarter complied with the AL Levels.

Review of Reasons for and Implications of Non-compliance

6.3 No exceedance of Action and Limit Levels for 1-hour and 24-hour TSP and noise levels was recorded in the quarter.

Summary of Actions Taken

6.4 The Contractor generally implemented all the required mitigation measures to suppress the environmental impacts. As no exceedance of AL level was recorded in the quarter, no action was required.

7. ENVIRONMENTAL COMPLAINTS

- 7.1 All environmental complaints received or made against the Project since commencement of the Project would be handled in accordance with the EM&A Manual. The complaint handling procedure is provided in Figure 7.1.
- 7.2 No environmental complaint was received or made against the Project in the quarter.
- 7.3 Summary record of the complaints, investigation and follow-up actions undertaken since commencement of the Project are provided in Appendix H.

8. NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

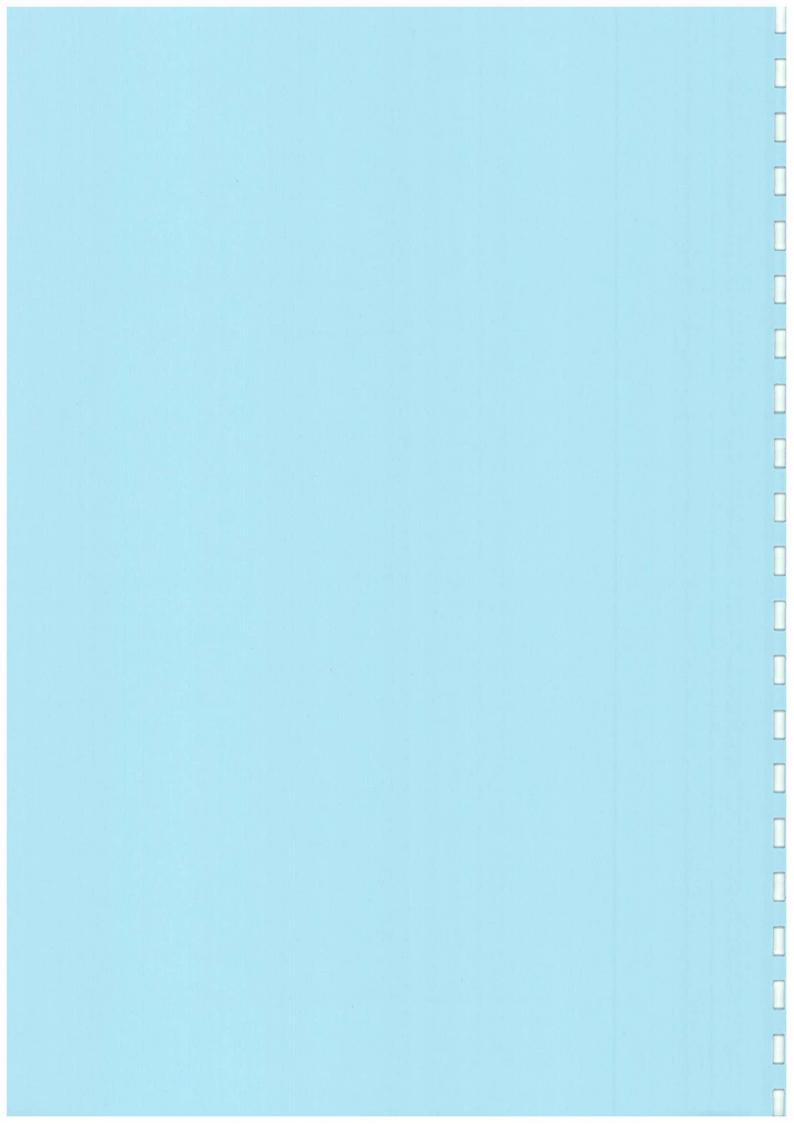
No notification of summons and successful prosecutions was received or made against the Project in the quarter.

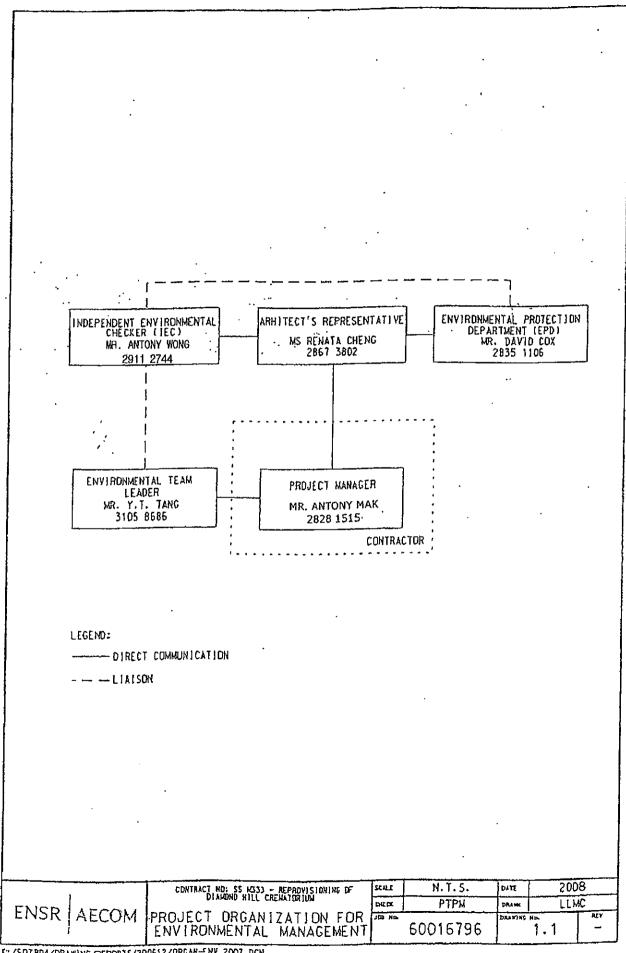
9. COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

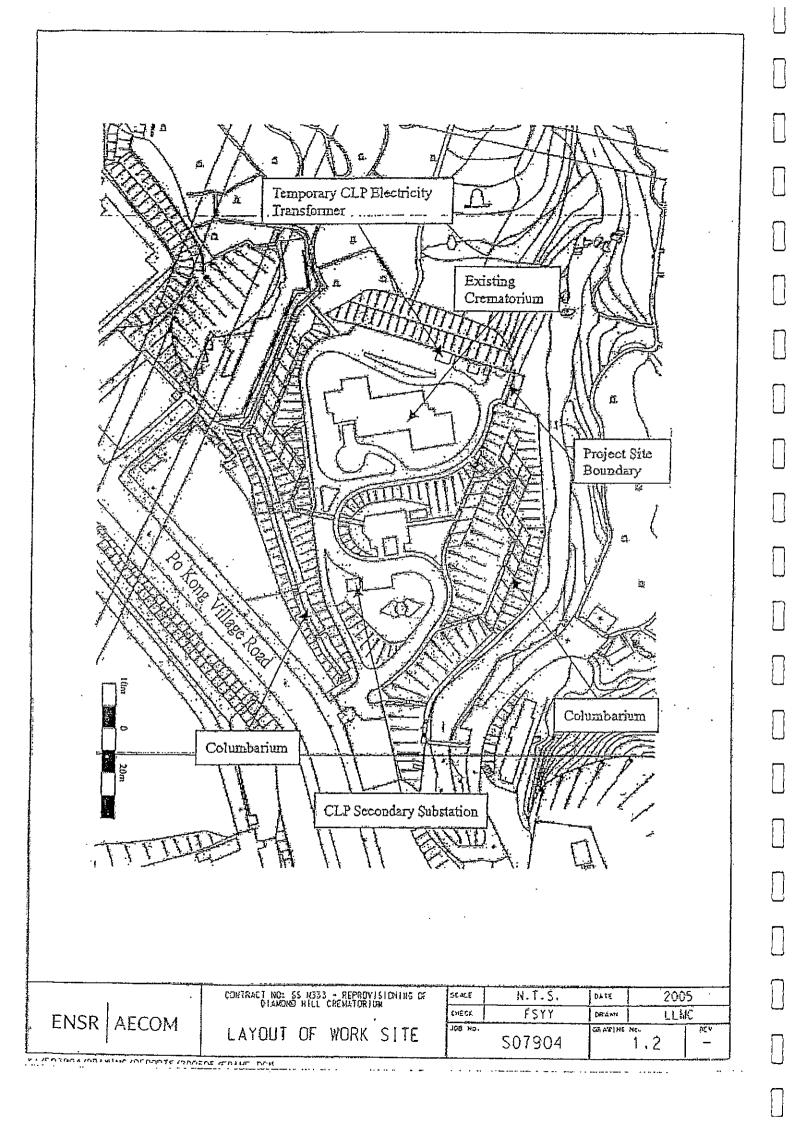
The ET carried out air quality and construction noise monitoring and weekly environmental site inspection in accordance with the updated EM&A Manual.

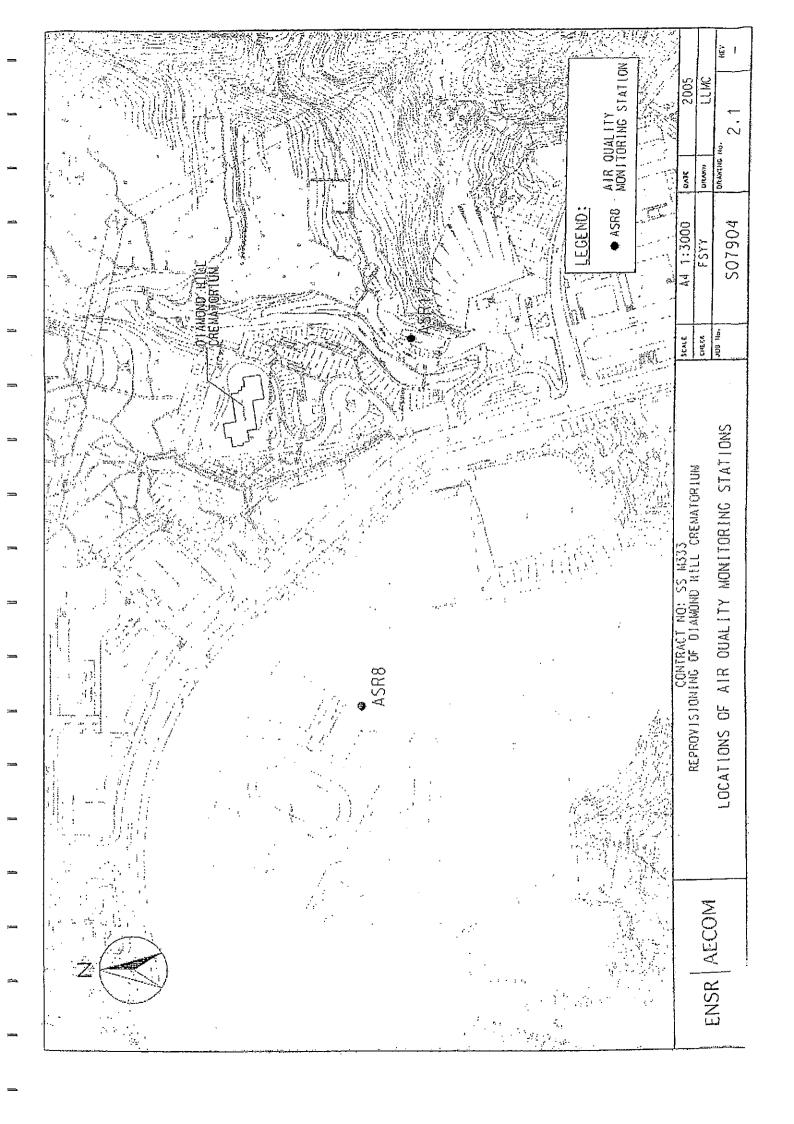
The implemented EM&A programme ensured that any air quality and construction noise impacts to the sensitive receivers would be readily detected and timely actions could be taken to rectify any non-compliance. Assessment and analysis of air quality and construction noise monitoring results recorded had demonstrated the environmental acceptability of the Project. Weekly site inspections ensured that the EIA recommended mitigation measures were effectively implemented.

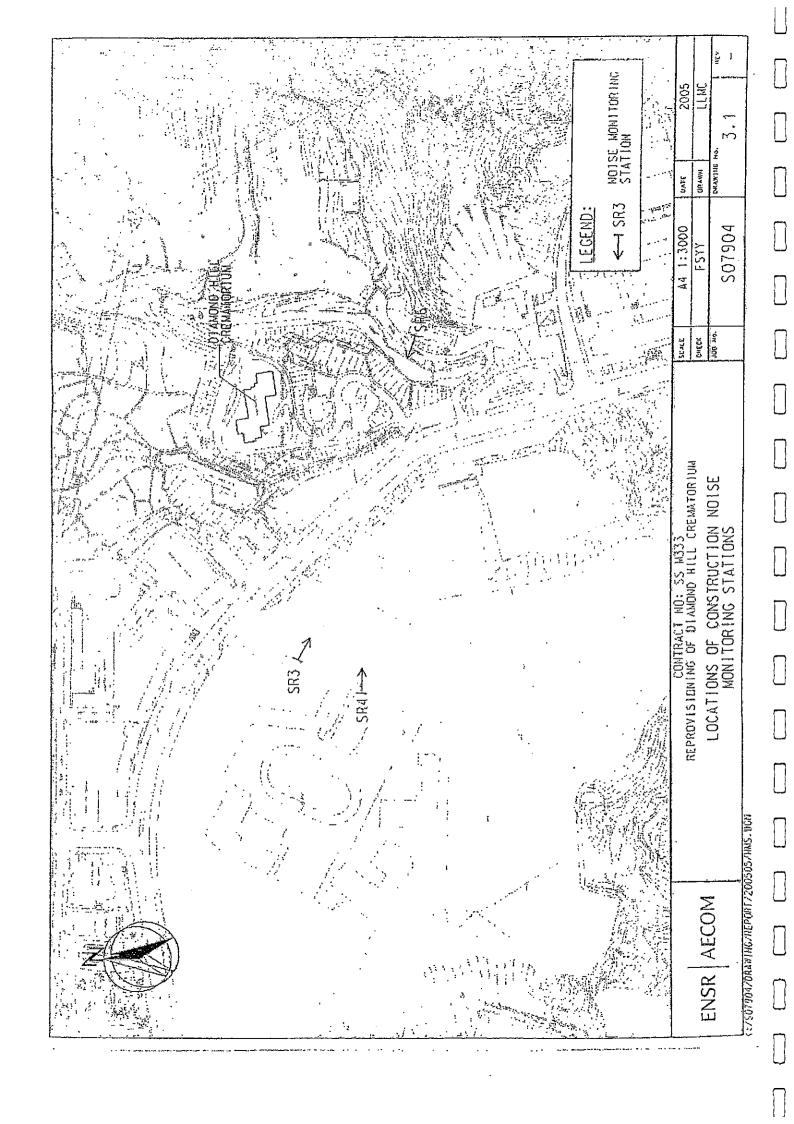
FIGURES

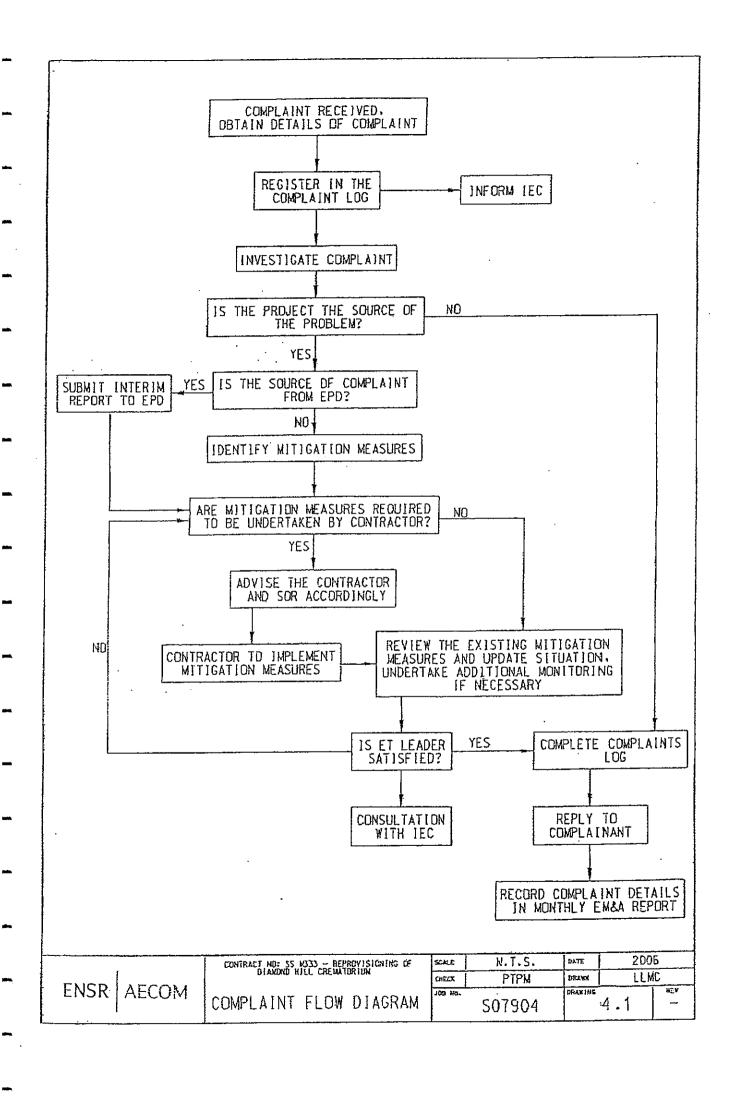






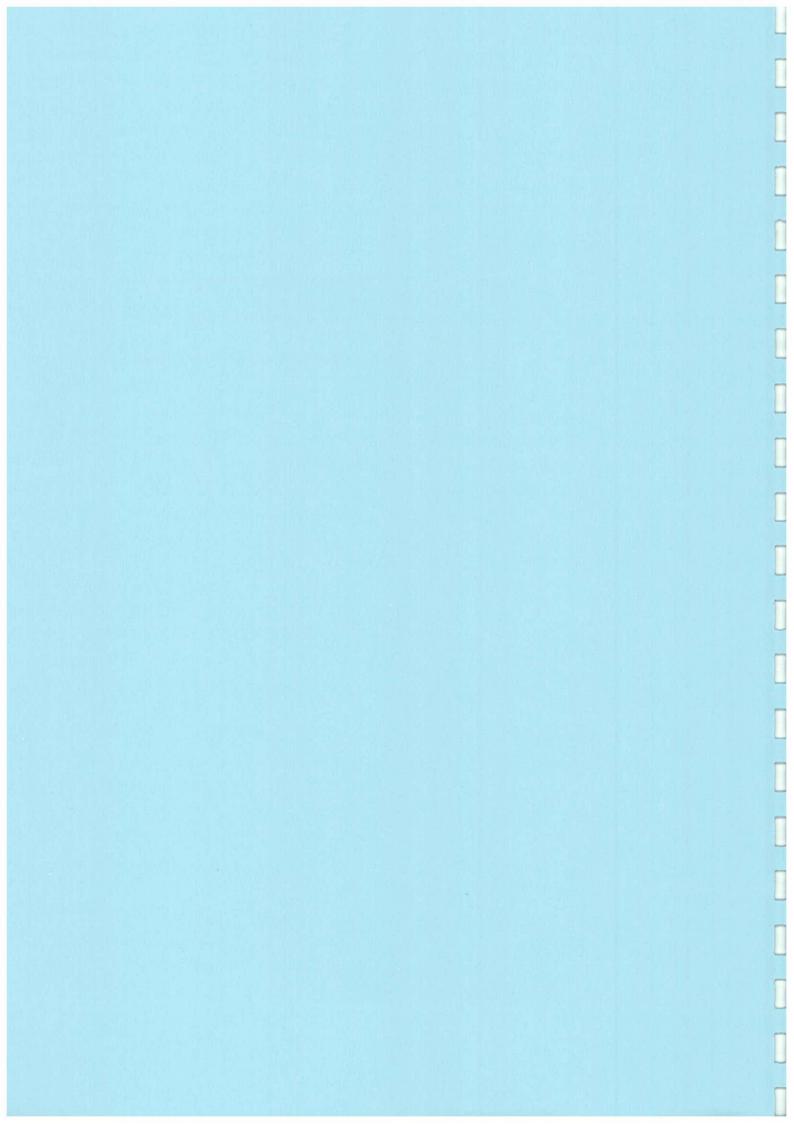






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APPENDIX A
KEY CONTACTS OF ENVIRONMENTAL
PERSONNEL

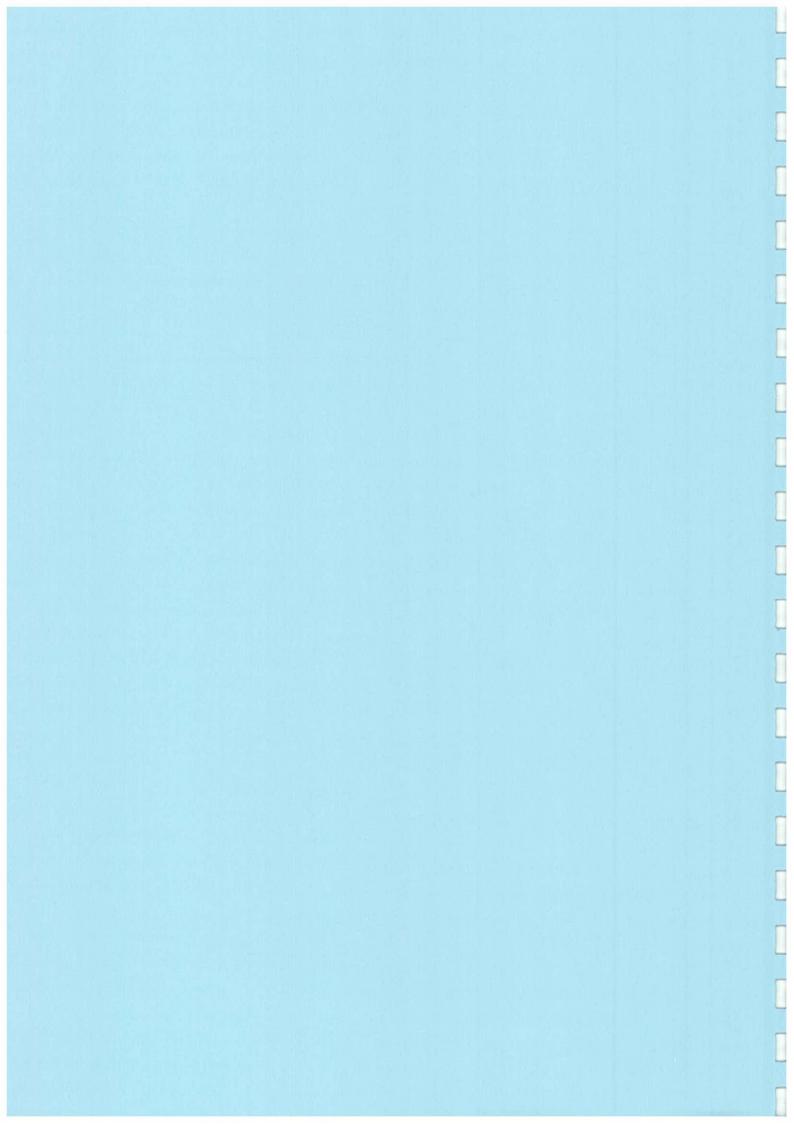


Appendix A Key Contacts of Environmental Personnel

Party	Name	Telephone No.	Fax No.				
Environmental Protection Department							
SEPO	Mr. David Cox	2835 1106	2591 0558				
EPO	Ms. Marlene Ho	2835 1186	2591 0558				
EPO (ECD)	Mr. Charles Wu	2117 7540	2756 8588				
Architect							
Architectural Services Departs	ment						
Project Architect	Ms. Renata Cheng	2867 3802	2524 8194				
Independent Environmental	Checker						
Hyder Consulting Limited							
IEC	Mr. Antony Wong	2911 2744	2805 5028				
Assistant to IEC	Ms. Winnie Ma	2911 2912	2805 5028				
Contractor							
China Resources Construction	n Company Limited						
Project Manager	Mr. Antony Mak	2828 1515	2827 2921				
Environmental Team			i				
ENSR Asia (HK) Limited (form	erly Maunsell Environn	nental Management	Consultants Ltd)				
ET Leader	Mr. Y.T. Tang	3105 8686	2891 0305				
Audit Team Leader	Mr. Kenneth Lau	3105 8686	2891 0305				
Monitoring Team Leader	Mr. Fung Yiu Wah	3105 8544	2891 0305				

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APPENDIX B ENVIRONEMTNAL MONITORING AND AUDIT PROGRAMME



Appendix B

Environmental Monitoring Programme

Table B1

Air Quality Monitoring Parameters and Frequency

Location	Parameter	Duration	Frequency
ASR8 and 17	1-hour TSP	1 hour	3 times every six days
	24-hour TSP	24 hours	Once every six days

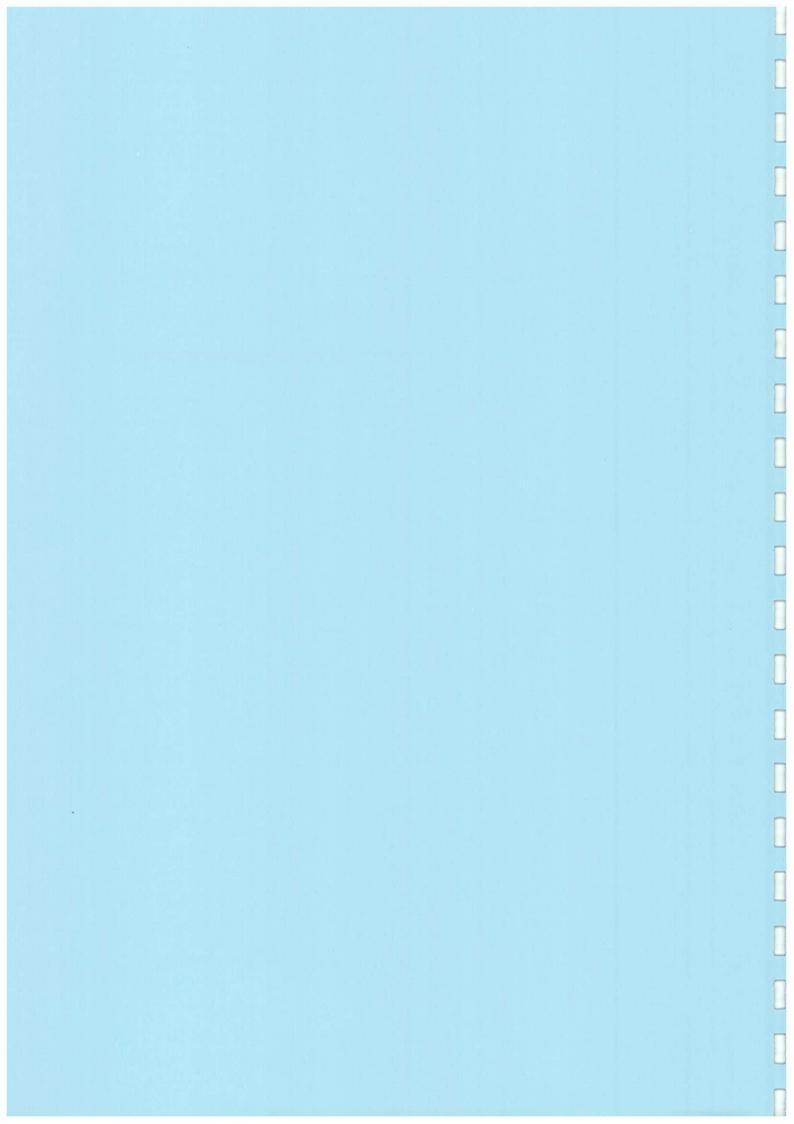
Table B2

Noise Monitoring Parameters, Period and Frequency

Location	Time Period	Parameters	Frequency
SR3, 4 and 6	Daytime (0700 to 1900 on normal weekdays)	L _{eq (30-min)}	Once per week

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APPENDIX C ENVIRONMENTAL ACTION AND LIMIT LEVELS



Appendix C Environmental Action and Limit Levels

Action and Limit Levels for 24-hour TSP

Monitoring Station	Action Level (μg/m³)	Limit Level (μg/m³)
ASR8	195.0	260
ASR17	174.1	260

Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level (μg/m³)	Limit Level (μg/m³)
ASR8	408.1	500
ASR17	408.4	500

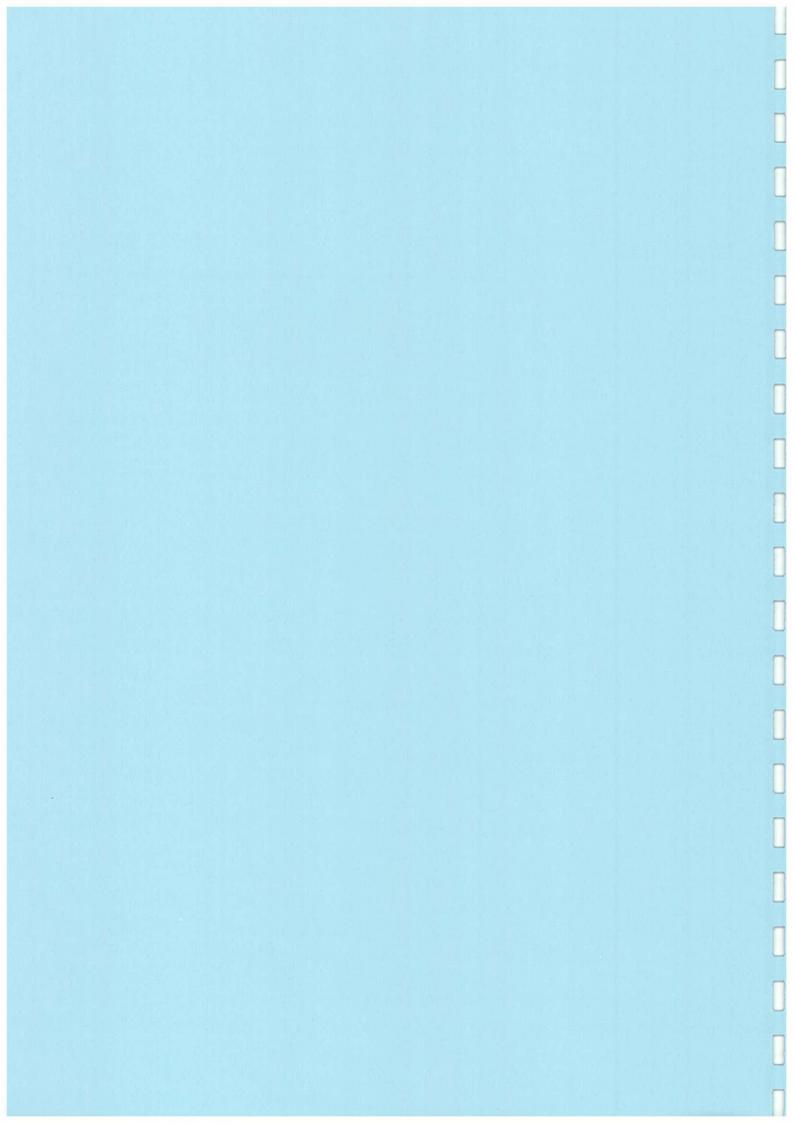
Action and Limit Levels (L_{eq}) for Construction Noise

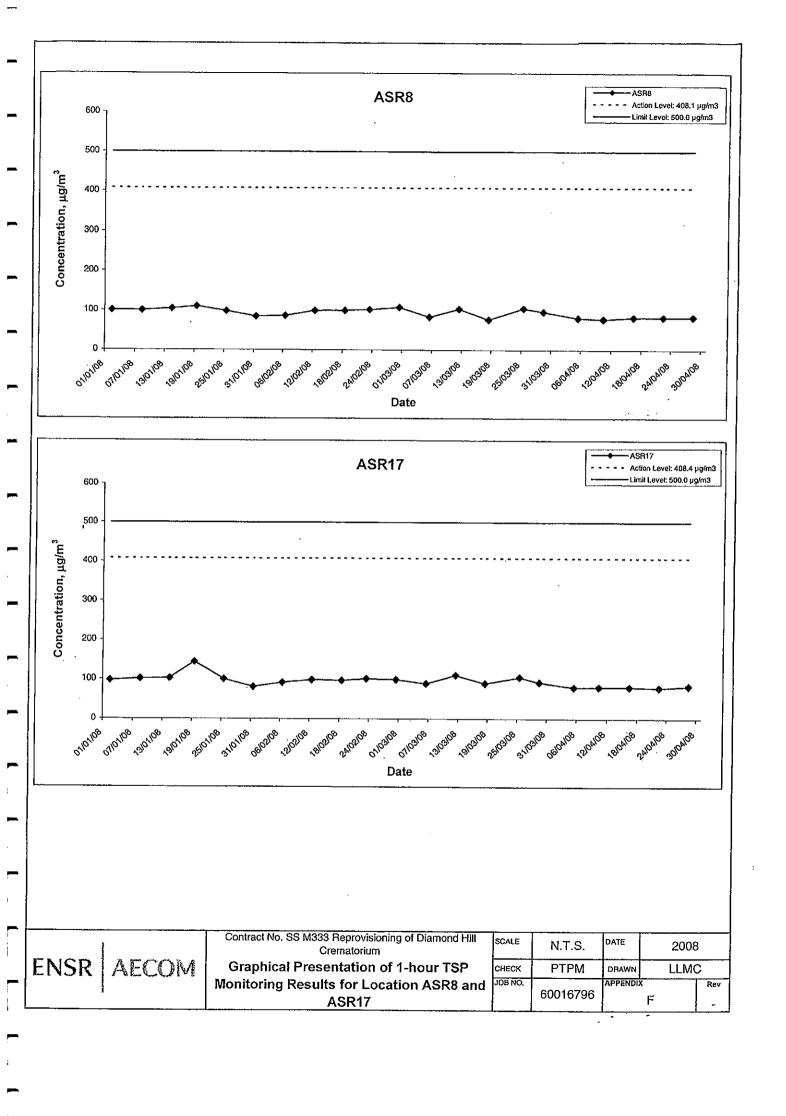
Time Period	Action Level	Limit Level		
		SR3	SR4	SR6
0700 – 1900 hours on normal weekdays	When one documented complaint is received	70/65*	70/65*	75
0700 – 2300 hours on public holidays including Sundays and	from any one of the sensitive receivers	Subject to requirements stipulated in future		
1900 - 2300 hours on all days	·	Construc	ction Noise	Permits
2300 - 0700 on all days				

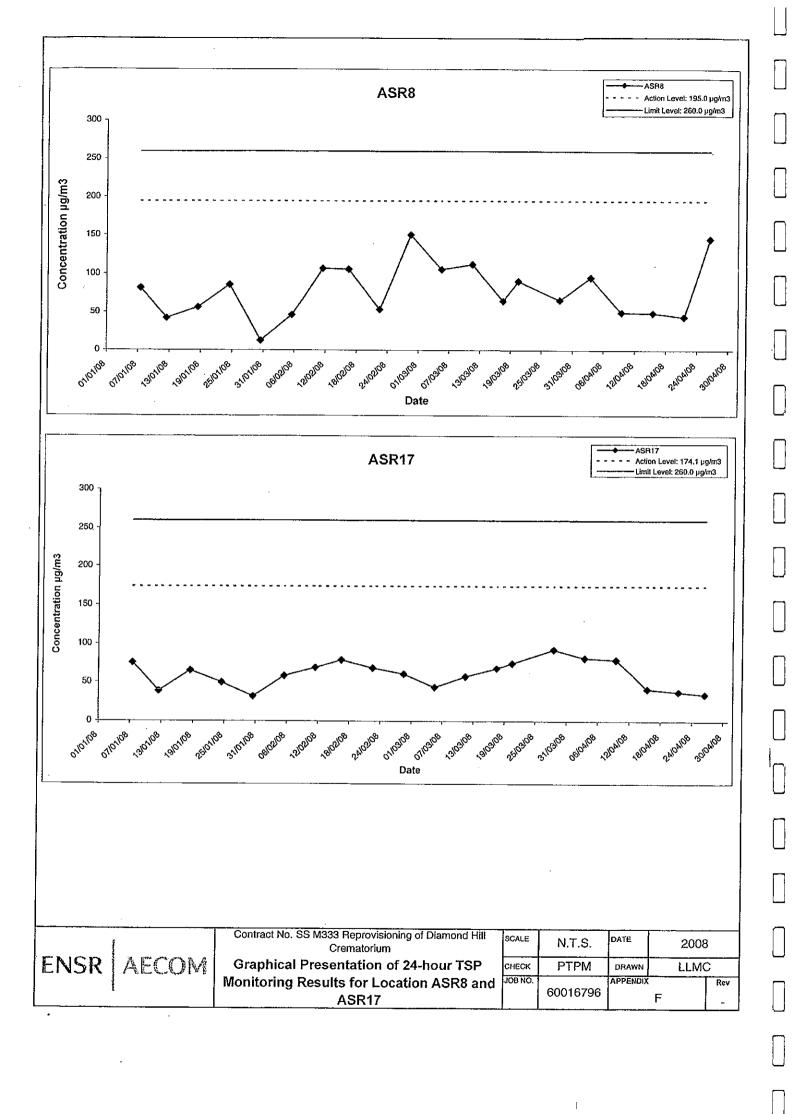
^{*}reduce to 70dB(A) for schools and 65dB(A) during school examination periods

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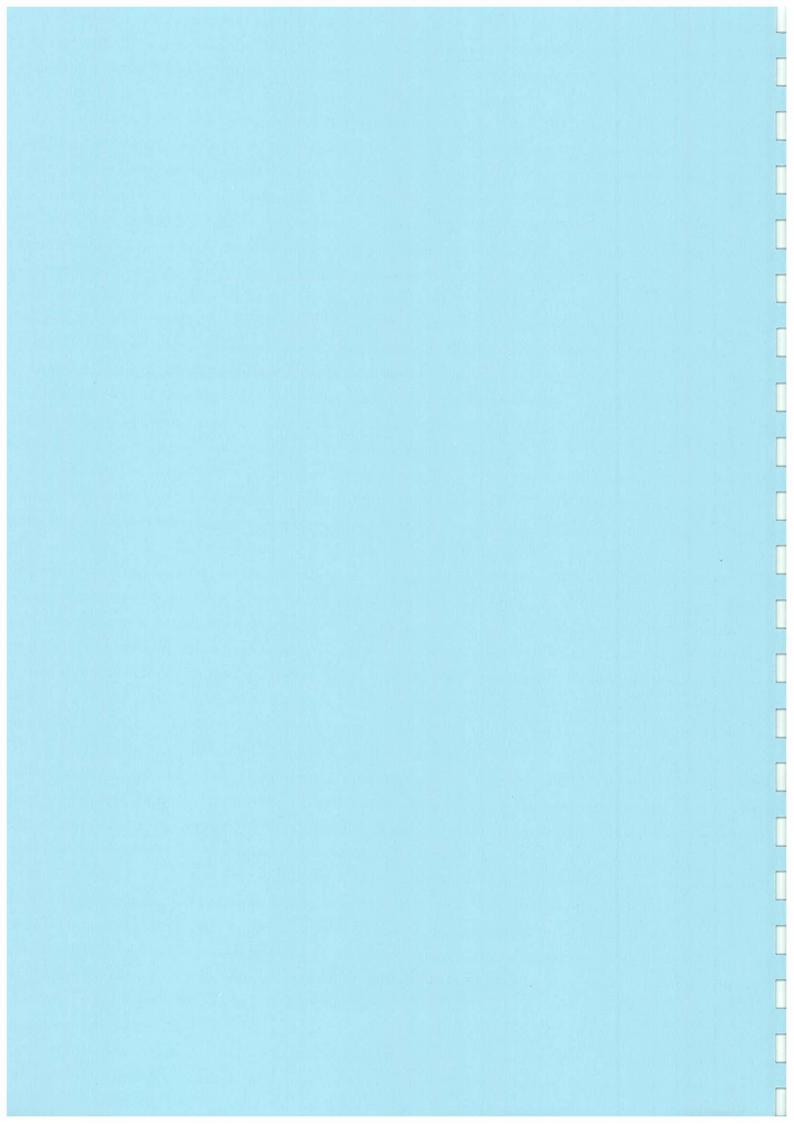
APPENDIX D GRAPHICAL PRESENTATION OF AIR QUALITY MONITORING RESULTS

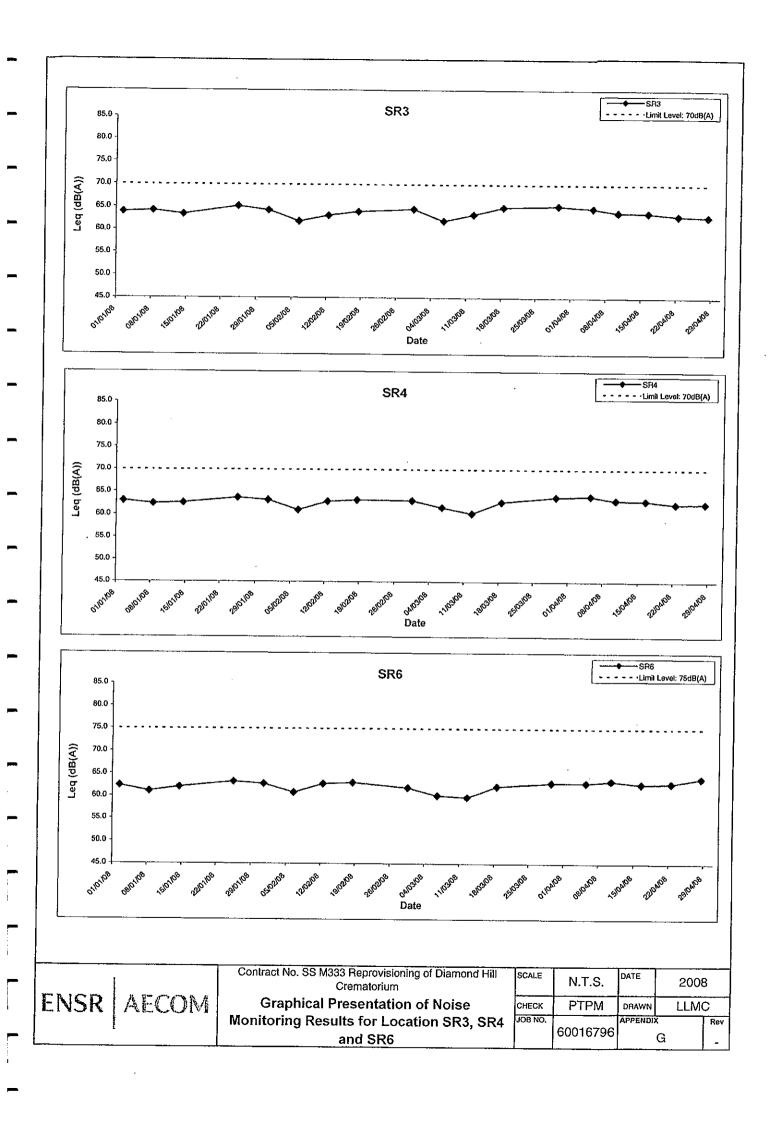




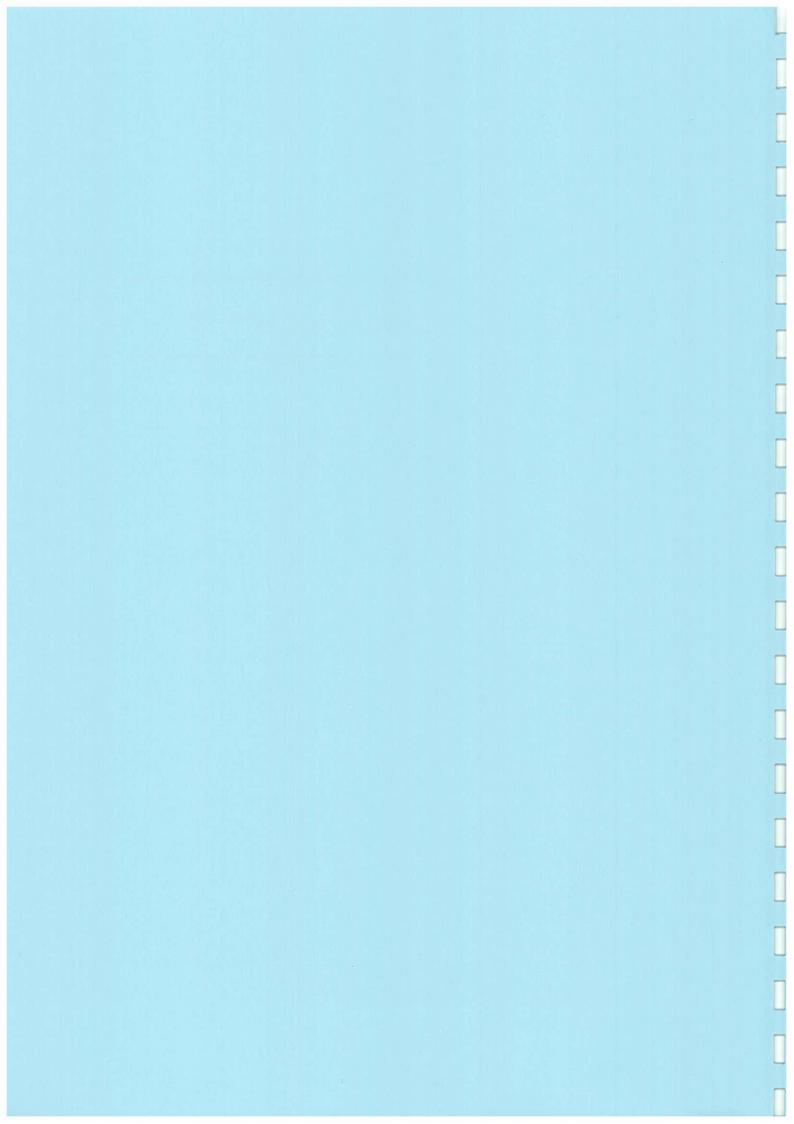


APPENDIX E GRAPHICAL PRESENTATION OF CONSTRUCTION NOISE MONITORING RESULTS





APPENDIX F
IMPLEMENTATION SCHEDULE OF
MITIGATION MEASURES



Appendix F - Environmental Mitigation Implementation Schedule

Recommended Miligation Measures	Location and Timing	Who to Implement?	When to Implement?	What Requirements or Standards to Achieve?	Status
Air Quality Mitigation Measures					
Special air pollution control systems shall be installed and operate to reduce the emissions of air pollutants to acceptable levels	New Cremators in New Crematorium	Arch SD	Design, Construction, Demolition and Operation stage	8PM/APCO	4
FEHD shall apply for a Specified Process License under the APCO	New Cremators in the New Crematorium / prior to operation	FEHD	Construction, Demolition and Operation stage	APCO	N/A
The efflux velocity of chimney shall be at least 15 m/s, the design diameter of the chimneys shall be 0.22 m and 0.30 m, the design chimney height shall be 101mP.D. (28.5m above ground), for 170 kg and 250 kg cremators respectively	Chimney of New Crematorium / design and construction stages	Arch SD	Design and Construction stage	BPWAPCO	N/A
If the interior wall of existing cremators and chimney are confirmed dioxins contaminated, special precautions shall be taken avoid fuglive emissions of dioxin contaminated materials	Cremator room and chimney in Existing Crematorium / demolition	Arch SD/Contractor	Demolition stage		N/A
Sufficient water spraying should be applied during the construction work, the fugitive dust generated from general construction dust would be educed by 90%	Project site / construction and demolition stages	Arch SD, contractor	Construction and Demolition stage	APCO	7
Carry out a confirmatory test of dioxins in the lepositions on chimney walf, flue gas ducting and combustion chambers when the existing Frematonium is shut down	Chimney, flue and cremators in Existing Crematorium / decommissioning	FEHD, Aich SO	Demolition stage		N/A
t the dioxin level of surface deposition is between 1 and 10 ppb 1-TEQ, it is classified as noderately contaminated with dioxins. The demolition work site should be covered up to avoid emission of fugitive dust during demolition	Chimney, flue and cremators in Existing Crematorium / decommissioning	Arch SD 3	Demolition stage		N/A

Recommended Miligation Measures	Location and Timing	Who to implement?	When to Implement?	What Requirements or Standards to Achieve?	Status
If the dioxin level of surface deposition exceeds 10 ppb I-TEQ, it is classified as severely dioxin-contaminated waste. If it is confirmed that the existing facilities are severely contaminated with dioxins, a special decommissioning method – Containment method – would be adopted	Chimney, flue and cremators in Existing Crematorium / decommissioning	Arch SD 3	Demolition stage		N/A
All the demolition waste would be carefully handled, sealed and treated as chemical waste. The waste collector shall be responsible for preventing tuglifve dust emission when handling the demolition waste	Chimney, flue and cremators in Existing Crematorium / demolition stage	Arch SD, contractor	Demolition stage		1
Employ a registered asbestos contractor to remove asbestos containg material during the demolition of the existing crematorium building	Cremator room in Existing Crematorium / decommissioning	Arch SD, contractor	Demolition stage	APCO	N/A
Submit a format AIR and Asbestos Abatement plan signed by a registered asbestos consultant to the Authority for approval under APCO 28 lays prior to the start of any asbestos abatement work.	Cremator room in Existing Crematorium / decommissioning	Arch SD, consullant	Demolition stage	APCO	N/A .
When removing asbestos containing materials, enclosure of the work area; containment and sealing for the asbestos containing wasts; provision of personal decontamination facility; use of personal respiratory/protection equipment; use of racuum cleaner equipped with highefficiency in particulate (HEPA) filter for cleaning up the work trea; and carry out air quality monitoring during the isbestos abatement work	Cremator room in Existing Crematorium / decommissioning	Arch SD, consultant	Demolition stage	APCO	N/A
Appoint qualified personnel to carry out the asbestos containing material removal work, colduding a registered asbestos contractor to carry out the work; a registered asbestos supervisor to supervise he work; a registered asbestos laboratory to monitor he air qualify, and a registered asbestos consultant to upervise and certify the asbestos abatement work.	Cremator room in Existing Crematorium / decommissioning	Arch SD, consultant	Demolition stage	APCO	N/A

Recommended Mitigation Measures	Location and Timing	Who to Implement?	When to Implement?	What Requirements or Standards to Achieve?	Status
Erect a site barrier with the height of no less than 2.4m to enclose the construction site Apply frequent water spraying to ensure the surface of the construction site sufficiently wet to reduce fugitive dust due to wind erosion and transportation on unpaved haul road Cover up stockpites of fill material and dusty material Install a vehicle-cleaning system at the main entrance of the construction site to clean up the vehicles before leaving the site The Air Pollution Control (Construction Dust) Regulation shall be followed for fugitive dust control	Project site / construction and demolition stages	Contractor	Construction and Demolition stage	APCO, Air Pollution Control (Construction Dust) Regulation	
No more than 6 cremators (including both the existing and new ones) are in operation during commissioning test of new cremators. The commissioning test of each new cremator shall be recorded by a log book	Existing and new cremators in Exiting and New Crematorium / text and commissioning	Arch SD/FEHD/ Contractor	Construction stage		N/A
Special air pollution control systems shall be installed and operate to reduce the emissions of air pollutants to acceptable levels	New cremators in New Crematorium / all stages	Arch SD	Design, Construction, Demolition and Operation stage	BPM/APCO	N/A
Conduct baseline and regular 1-hour and 24-hour TSP monitoring.	A8 and A17 / baseline monilloring prior to Phase I & II works and regular moniloring throughout Phase I & II works	Contractor	Construction and Demolition stage	APCO, EM&A Guidelines for Development Projects in Hong Kong	
When the demolition material is confirmed to have ACM, monitoring for asbestos fibre would be carried out at the boundary of the construction site for reassurance purposes as per the requirement of future	Construction site boundary / demolition	Contractor	Demolition stage	Asbestos Study - Report, AIR and AAP to be submitted under	N/A

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Recommended Mitigation Measures	Location and Timing	Who to implement?	When to Implement?	What Requirements or Standards to Achieve?	Status
ficense for asbestos abatement, though it is not expected that asbestos fibre would be liberated from the demotition of the Existing Crematorium building.				APCO, future licence for asbestos abatement (if any)	
Noise Mitigation Measures				1	T
Select quiet plant, which is defined as PME with a sound power level lower than that specified in GW-TM. Examples of quiet plant can be referred to those listed in British Standard BSS228.	Project site / construction and demolition stages	Contractor	Construction and Demolition stages	GW-TM	4
Where practicable, use movable barriers of 3 to 5 m height with a small cantilevered upper portion and skid footing can be localed within a few metres from a stationary plant (e.g. generator, compressor, etc.) and within about 5 m for a mobile equipment (e.g. breaker, excavator, etc.), especially in the vicinity of SR3, SR4 and SR6. The purpose-built noise barriers or screens shall be constructed of appropriate materials with a minimum superficial density of 15kg/m2.	Project site / construction and demolition stages	Contractor .	Construction and Demolition stages	NCO	N/A
Only well-maintained plant should be operated on site and plant should be regularly serviced during the construction works Plant that is used intermittently should be turned off or throttled down when not in active use Plant that is known to emit noise strongly in one direction should be oriented to face away from NSRs Sitencers, mufflers and enclosures for plant should	Project sile / construction and demolition stages	Contractor	Construction and Demolition stages	NCO	7
be used where possible and maintained adequately throughout the works Where possible mobile plant should be sited away					
from NSRs	· · · · · · · · · · · · · · · · · · ·				

Recommended Mitigation Measures	Location and Timing	Who to implement?	When to implement?	What Requirements or Standards to Achieve?	Status
Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works					
Liaise with the school and the Examination Authority to ascertain the dates and times of examination periods during the course of the construction/ demotillon works so as to avoid any noisy activities during these periods. Programme of the on-sile works should hence be well programmed such that the noisler construction activities would not be coincided with the examination of the schools.	Project site / construction and demolition stages	Contractor	Demolition stage	NCO	7
Conduct regular noise manitoring.	SR 3, SR 4 and SR 6 / Phase I & II works	Contractor	Demolition stage	NCO, EM&A Guidelines for Development Projects in Hong Kong	7
Land Contamination Mitigation Measures					
Additional site investigations in areas of the site that are currently in use and cannol be readily accessed. These investigations will be carried out once the existing facility has been decommissioned. The additional site investigations are required in the vicinity of the existing CLP secondary substation, and around the cremators and flues inside the crematorium building. Once access to these areas is available, a sampling and analysis plan will be prepared for approval by EPD, additional investigations will take place, and the need for remedial works will be determined. Any remedial works required will be in addition to those described in this current report.	CLP secondary substation and cremator room/ demotition stage (Phase I - CLP secondary substation; Phase II - cremator room)	Contractor	Demolition stage	ProPECC PN 3/94	V
Once the Existing Crematorium has ceased operating during Phase II, confirmatory surface	Locations S1 to S6 specified in the	Contractor	Demotition stage	ProPECC PN 3/94	N/A

Recommended Mitigation Measures	Location and Timing	Who to implement?	When to Implement?	What Requirements or Standards to Achieve?	Status
samples will be taken from the samples points S1 to S6 at a depth of 0.1m, and these samples will be analysed for the same suite of determinands (i.e. dioxins, metals and PAH) in order to confirm that no further contamination has occurred. The Remediation Action Plan will be revised on the basis of these results.	CAP/demolition				
The underground fuel storage lank and associated pipework will be removed as part of the site formation works. The base of the excavations will be inspected during and after tank removal by a suitably experienced environmental specialist in order to determine whether there is any visual or olfactory evidence of fuel contamination. If such contamination is suspected, then confirmatory soil sampling will be carried out, and the samples analysed for TPH.	Underground fuel storage tank/during and after tank removal	Contractor .	Demolition stage	ProPECC PN 3/94 and Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards and Car Repair / Dismantling Workshops	N/A
Summary of remediation works at locations \$3 and \$5:		~		VVOIKSHOPS	
1. Mark out 5m radius around \$3 and \$5 2. Excavate to depth of 0.5m 3. Transport to landfill site for final disposal4. Take 4 samples from edges of excavation and one sample from base of excavation, analyse for ead and tin 5. If the results exceed Dutch B Levels, extend excavation to a further 5 m radius and 0.5 m depth in the quadrant where the contaminated samples s encountered and repeat steps 3 and 4.6. If the esults less than Dutch B Levels, then remediation completed.	Locations S3 and S5 specified in CAP/demolition	Contractor	Demolition stage	ProPECC PN3/94	N/A

Recommended Miligation Measures	Location and Timing	Who to implement?	When to implement?	What Requirements or Standards to Achieve?	Stalus
During removal of the underground fuel storage tank, appropriate precautions should be taken to avoid contamination. All fuel tanks and associated pipework should be emptied prior to any demolition work being undertaken. Any remaining studge or sediment in the tanks or pipework should be removed and disposed of as chemical waste in accordance with the appropriate regulations for disposal of such material.	Underground fuel storage lank / Phase II demolition	Agent Contractor	Demolition stage	ProPECC PN 3/94 and Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boatyards and Car Repair / Dismantling Workshops	N/A
Should contamination be encountered beneath the fuel tank or the CLP secondary substation, further remedial work will be required, Such potential contamination would consist of either TPH (in the case of the fuel tank) or PCBs (in the case of the CLP secondary substation). As a realistic worst-case estimate, the PCB contaminated soil at CLP secondary substation may require stabilisation with cement prior to disposal to tandfiff. A realistic worst case estimate is that the volume of TPH contaminated soil at underground storage tank would require landfill disposal. Health and Safety Precautions during Remedial	CLP secondary substation /Phase I demolition and underground fuel tank / Phase II demolition	Contractor	Demalition stage	ProPECC PN 3/94 and Guidance Notes for Investigation and Remediation of Contaminated Siles of Petrol Filling Stations, Boatyards and Car Repair / Dismantling Workshops	N∕A
Works The sile workers engaged in the remedial works should be provided with adequate personal protective equipment, which should include: • Protective footwear; • Gloves; • Dust masks; and • Overalls. A clean area should be provided, equipped with washing facilities. Eating, drinking and smoking should only be permitted within designated "clean" areas after washing. Excavated material should not be stockpiled, but should immediately be treated/transported to landfill on a daily basis.	All areas requiring remedial works in Project site / demolition during Phases I and II	Contractor	Demolition stage	ProPECC PN 3/94 and Guidance Noles for Investigation and Remediation of Contaminated Siles of Petrol Filling Stations, Boalyards and Car Repair / Dismanlling	N/A

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Recommended Mitigation Measures	Location and Timing	Who to Implement?	When to implement?	What Requirements or Standards to Achieve?	Status
Avoidance of impacts on Water Quality during Remedial Works In order to avoid impacts on water quality during remedial works, care will be taken to minimise the mobilisation of sectiment during excavation and transport. Measures to be adopted will be based on the recommendations set out in Practice Note for Professional Persons ProPECC PN194 "Construction Site Drainage". The results of the site investigation suggest that there is unlikely to be any requirement for dewatering of excavations, since groundwater was not encountered in any of the exploratory holes. The contractor carrying out the remedial works will be required to submit a method statement detailing the measures to be taken to avoid water quality impacts. Typical measures would include; Carry out the works during the dry season (i.e. October to March) if possible; *Use bunds or perimeter drains to prevent run-off water entering excavations; *Sheet or otherwise cover excavations whenever rainstorms are expected to occur; *Minimise the requirements for stockpiling of material and ensure any stockpiles are covered; *Temporary on-wit stockpiling of contaminated materials should be avoided, and all excavated contaminated soils/materials should be disposed of on a dally basis; *Ensure that any discharges to storm drains pass through an appropriate sill trap. *Waste Disposal Requirements during Remedial Works*	All areas requiring remedial works in Project site I demolified during Phases I and it	Ageni Contractor	Demotition stage	Workshops ProPECC PN 3/94, ProPECC PN 1/94 and Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boabyards and Car Repair / Dismantling Workshops	N/A
An application for permission to dispose of excavated material should be made to the Facilities Management Group of EPD three months prior to disposal. A "tripticket" system should be implemented. Each load of contaminated soil despatched to landfill should be	All areas requiring remedial works in Project site / demotition during Phases I and II	Contractor	Demolition stage	ProPECC PN 3/94, Waste Disposal Ordinance (Cap. 354), WBTC No. 21/2002 and	N/A

Recommended Mitigation Measures	Location and Timing	Who to implement?	When to Implement?	What Requirements or Standards to Achieve?	Status
accompanied by an admission ticket. Vehicles leaving the site should be adequately sheeted to prevent dispersion of contaminated material during transport. The wheels of vehicles should be cleaned prior to leaving site, to prevent contaminated material leaving site on the wheels of vehicles. Compliance Report for Remedial Works				Guidance Notes for Investigation and Remediation of Contaminated Siles of Petrol Filling Stations, Boatyards and Car Repair / Dismantling Workshops	
Following completion of remediation works, a Remediation Report should be compiled and submitted, to demonstrate that the remediation works have been carried out in accordance with the Remediation Action Plan. The Remediation Report should include details of the excavation works carried out, records of material taken to landfill, and results of confirmatory testing, and should be submitted to EPD for approval before the commencement of building works. Land Contamination Militgatton Measures	All areas requiring remedial works in Project site I after completion of remediation works	Agent Contractor	Demolition stage	ProPECC PN 3/94 and Guidance Notes for Investigation and Remediation of Contaminated Sites of Petrol Filling Stations, Boalyards and Car Repair / Dismantling Workshops	NIA
Conduct supplementary site investigation for TPH and PCB in soil samples.	CLP substation / after decommissioning but prior to demolition during Phase I work	Contractor	Demolition stage	CAR, RAP, future sampling and analysis plan	1
Conduct confirmatory testing of PAH, dioxins and melals (the "Dutch List") in soil samples.	S1 to S6 / Phase II work	Contractor	Construction and Demolition stages	CAR, RAP, future sampling and analysis plan	N/A
If fuel contamination underneath the underground fuel ank is suspected, confirmatory soil sampling will be carried out for analysis of TPH. Conduct confirmatory testing of tin and lead in soil	Underneath the underground fuel lank / Phase II	Contractor	Demolition stages	CAR, RAP, future sampling and analysis plan	NIA
conduct communatory testing of the and lead in soil	S3 and S5 / during	Contractor	Construction and	CAR, RAP, future	N/A

	Location and Timing	Who to implement?	When to Implement?	What Requirements or Standards to Achieve?	Status
amples to confirm all contaminated soil has been xcavated.	Phase II work following excavation at each location		Demolition stages	sampling and analysis plan	
/aste Management Mitigation Measures				·	
cool Site Practice Obtain relevant waste disposal permits from the oppropriate authorities, in accordance with the Waste isposal Ordinance (Cap. 354), Waste Disposal Chemical Waste) (General) Regulation (Cap. 354) and a Land (Miscellaneous Provision) Ordinance(Cap. 364) and a Land (Miscellaneous Provision) Ordinance(Cap. 364) and a Land (Miscellaneous Provision) Ordinance(Cap. 364) Prepare a Waste Management Plan approved by the ngineers / Supervising Officer of the Project in coordance with Environment, Transport and Works ureau Technical Circular (Works) (ETWBTC(W)) 572003, Waste Management On Construction Sites Vominale an approved person, such as site manager, be responsible for good site practice, arrangements or collection and effective disposal of all types of istes generated on-site to appropriate facility Jse waste hautier authorized or ticensed to collect exific category of waste stablish firp ticket system as contractual quirement (with reference to Works Branch Technical cutar (WBTC) No. 21/2002) for monitoring of public and C&D waste at public filling facilities and tandfills. In chart of the public filling facilities and tandfills. In chart of the public filling facilities and tandfills chart activities should be monitored by the vironmental Team frovide training to site staff in terms of proper waste magement and chemical waste handling procedures eparate chemical wastes for special handling and pose them at licensed facility for treatment stablish routine cleaning and maintenance gramme for drainage systems, sumps and oil arceptors		Contractor	Design, Construction and Demolition stages	Waste Disposal Ordinance (Cap. 354), Waste Disposal(Chemical Waste) (General) Regulation(Cap. 354) Land(Miscellaneou s Provision) Ordinance(Cap. 28) WDO, ETWBTC(W) 15/2003, WBTC No. 21/2002	

Recommended Mitigation Measures	Location and Timing	Who to Implement?	When to Implement?	What Requirements or Standards to Achieve?	Status
collection for disposal Adopt measures to minimize windblown litter and dust during transportation of waste, such as covering lrucks or transporting wastes in enclosed containers Establish recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites)					
Waste Management Plan The contractor should submit the Waste Management Plan to Engineer/Supervising Officer of the Project for approval. The Waste Management Plan should describe the arrangements for avoidance, reuse, recovery and recycling, storage, collection, freatment and disposal of different calegories of waste to be generated from the activities of the Project and indicate the disposal location(s) of all waste. A trip ticket system shall be included in the Waste Management Plan.	Project site / design, construction and demolition stages	Contractor	Design, Construction and Demolition stages	Waste Disposal Ordinance (Cap. 354)	1
Waste Reduction Measures - Minimize the damage or contamination of construction material by proper storage and site practices - Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste · 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 - Recycle any unused chemicals or those with remaining functional capacity as far as practicable -	Project site / construction and demolition stages	Agent Contractor	Construction and Demolition stages	WBTC No. 32/92, 5/98 and 19/99	
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 by individual collectors, separate labeled		1 4 4 4	·		

Recommended Mitigation Measures	Location and Timing .	Who to implement?	When to Implement?	What Requirements or Standards to Achieve?	Status
bins should be provided to help segregate this waste from other general refuse generated by the work force					
Excavated Material Rock and soil generated from excavation should be reused for site formation as far as possible. In addition, excavated material from foundation work can be reused for landscaping as far as practicable to avoid disposal off-site.	Project site / construction and demolifion stages	Contractor	Construction and Demolition stages	WBTC 12/2000	1
Constluction and Demotition Material Careful design, planning and good site management can minimize poter-ordering and generation of waste materials such as concrete, mortar and cement grouts. Standard formwork should be used as far as practicable, wooden formwork should be used as far as practicable, wooden formwork should be used as far as practicable, wooden formwork should be replaced by metal ones whenever cossible. Alternatives such as plastic fencing and eusable site office structures can also minimize C&D waste generation. The contractor should recycle as much as possible of the C&D material on-site. Public illiferent containers or skips to enhance reuse or ecycling of materials and their proper disposal. Alaterials such as concrete and masonry can be rushed and used as fill and steel reinforcing bar can be used by scrap steel mills. Different areas of sites hould be designated for such segregation and torage. To maximize landfill life, government policy iscourages the disposal of C&D materials with more nan 20% inert material by volume (or 30% inert material by weight) at landfill. Inert C&D material unblic fill) should be directed to an approved public lifing area, where it has the added benefit of offsetting the need for removal of materials from borrow areas for exchamation purposes.	Project site / construction and demolision stages	Contractor	Design, Construction and Demolition stages	WSTC 5/98 and19/99	
	CLP secondary	Contractor	Demotition	ProPECC PN	N/A

Recommend	Recommended Miligation Measures		Location and Timing	Who to implement?	When to implement?	What Requirements or Standards to Achieve?	Status
Location	Investigation Parameter	Investigation Period	1				
Cremators/ flue/chimney and surrounding areas	Asbestos (building structure)	Phase II					
CLP secondary substation	PCB, TPH (soil samples)	Phase I					
Cremators/ flue/chimney and surrounding areas	Dioxins, heavy metals, PAH (ash waste)	Phase II					
Surface soit around Existing Crematorim	Dioxins, heavy metals, PAH (soil sample)	Phase II					
urther contamination investigation shall provide formation on the extent of contamination t cremators /flues / chimney as well as the quantity of ontaminated materials requiring eatment and disposal.						·	

Recommended Mitigation Measures	Location and Timing	Who to implement?	When to Implement?	What Requirements or Standards to Achieve?	Status
Samples of ash/particulate matters should be collected from within the cremators (including the bottom ash), chimney walls, flues and surrounding area of the Existing Crematorium for analysis of dioxin, heavy metals and PAHs by a HOKLAS accredited laboratory. A consultant experienced in the abatement of chemical wastes particularly the handling of DCM, should be appointed in order to assist with the evaluation of the information and prepare an abatement plan for the ash waste. Such a plan shall be submitted to EPD and the Labour Department (LD) to establish an acceptable and safe method for these potentially areardous wastes. The abatement plan should identify the method of abatement, the performance criteria for the protection of workers and the environment and any emergency procedures and conlingency measures required.				Achieve	
I must be ensured that the treatment of ash wastes will comply with all routine construction its safety procedures would apply as well as statutory equirements under the Occupational safety and Health Ordinance and Factories and safety and Health Ordinance and Factories and safety in the safety safety of the ifficulties in establishing permanent and effective ngineering controls, the protection of workers is likely to be at the worker level. A safe system of work must e provided, and training and suitable personal rotective equipment as well as hygienic econtamination facilities should be provided. It is ecommended that the methods to be adopted by the ontractor for disposal of the ash waste should be greed with LD and EPD.	Cremator room in Existing Crematorium / before demolition and after decommission	Contractor	Demolilion stage	ProPECC PN 3/94	NIA
ufficient time should be allocated to abate all ash aste with DCM/HMCM/PAHCM. The ontractor should ensure the implications of dust	<u>-</u>			ProPECC PN 3/94 Code of Practice	N/A

Recommended Mitigation Measures	Location and Timing	Who to implement?	When to implement?	What Requirements or Standards to Achieve?	Status
containing DCM/HMCM on air quality and workers health during the clean up work are mitigated. Since DCM is chemically related to Polychlorinated Biphenyi (PCB) wastes, the requirements of the Code of Practice on the Handling, Transportation and Disposal of (PCB) Wastes should be referenced when developing the abatement plan.				the Handling, Transportation and Disposal of (PCB) Wastes	
A land contamination site investigation was carried out under this EIA to determine disposal requirements for contaminated soil. Further site investigation on soil around CLP secondary substation is needed when decommissioned, which will be during Phase to fithe works. In addition, confirmatory testing on DCM level in locations S1 to S6 will be required to identify the appropriate remediation and disposal requirements during Phase II of the works.	Locations S1 to S6 in CAP / prior to Phase II demolition		Demolition stage		NIA
Asbestos Containing Materials (ACM) Further asbestos assessment should be carried out when access to the cremators flue /chimney is accessible after decommissioning and before demolition. An AMP should be prepared. The AAP should be prepared and submitted to EPD for approval prior to commencement of demolition works in accordance to the APCO. It is preferable to remove all ACM before actual demolition. A registered asbestos removal contractor should be employed to remove all ACM in accordance with the approved AAP which will be prepared in due course in accordance with the Code of Practice (COP) on Asbestos Control for Safe Handling of Low Risk ACM and Asbestos Work Using Full Containment or Mini Containment Method published by EPD. A registered asbestos consultant should also be employed to	Cremator room in Existing Crematorium / before demolition and after decommission	Contractor	Demofilion slage	Code of Practice (COP) on Asbestos Control for Sale Handling of Low Risk ACM and Asbestos Work Using Full Containment or Mini Containment Method COP on Handling, Transportation and Disposal of Asbestos Waste under the Waste Disposal	NIA

Recommen	nded Mitigation Mea	sntes	Location and Timing	Who to Implement?	When to Implement?	What Requirements or Standards to Achieve?	Status
the contract on Handling Waste unde (Chemical V	or should observe the i, Transportation and ir the Waste Disposal Vaste) (General) Red	Disposal of Asbestos				(Chemical Wasle) (General) Regulation APCO	
Dioxin Conta Containing & Polyaromatic (PAHCM) fro Crematorium Proposed Co with DCM/HI	aining Materials (DC) Materials (HMCM) / c Hydrocarbon Conta om Demolition of the n ontamination Classific	A) / Heavy Metal ining Materials	Cremator room in Existing Crematorium / before demolition and after decommission	Contractor	Demolition	ProPECC PN3/94 USEPA dioxin assessment criterion	NA
Low/Non Contaminat ed by DCM / HMCM / PAHCM	< 1 ppb TEQ	< Dutch "B" List					
Moderately/ Severely Contaminat ed HMCM / PAHCM	< 1 ppb TEQ	≥ Dutch *B* List					
Moderately Contaminat ed DCM	≥ 1 and <10 ppb TEQ	Any level	·				

Recommended Mitigation Measures		Location and Timing	Who to Implement?	When to Implement?	What Requirements or Standards to Achieve?	Status	
Severely Contaminat ed DCM	≥10 ppb TEQ	Any level		1			
Low/Non-Co. PAHCM from Where the as DCM/HMCM, should avoid demolition. G measures me All such ash v disposal of at Subject to the investigation, ash waste is is should be der	IPAHCM, the contra ash waste becomin eneral dust suppres entioned in Section 4 waste can be directly landfill. Indings of the furth building structures found but contamina all in accordance to	MCM/ ing Ctemalorium whon contaminated ctor g airborne during sision i should be followed. y ner asbestos where such illed with asbestos 7.7.16.	Cremator room in Existing Crematorium / demolition	Contractor	Demolition stage	APCO	N/A
should be dealt in accordance to 7.7.15. Demolition, Handling, Treatment and Disposal of Moderately Contaminated DCM and Moderately/Severely Contaminated HMCM / PAHCM from Demolition of the Existing Crematonium Procedure on demolition, handling, treatment and disposal of Moderately/Severely Contaminated DCM and Moderately/Severely Contaminated HMCM / PAHCM is listed below Item Procedure		Cremator room in Existing Crematorium / demolition	Contractor	Demolition stage	Waste Disposal (Chemical Waste) (General) Regulation	N/A	

		Location and Timing	Who to Implement?	When to implement?	What Requirements or Standards to Achieve?	Status
Site Preparation	The contractor should ensure the impacts of dust containing dioxin and/or heavy metals on air quality and workers health during the handling and transportation of the contaminated materials are mitigaled. Except the cremators/flue/chimney, all removable items where moderately contaminated DCM or moderately/severely contaminated HMCM / PAHCM is identified should be removed as far as practicable to avoid obstructing the decontamination activities. Preliminary site decontamination of all debris shall be carried out using HEPA vacuum cleaner. The top portion of the chimney above the roof shall be enclosed by a chamber with three layers of polyethene sheets. At the entrance to the cremators flues tchimney, a 3-chamber decontamination unit shall be constructed for entry and exit from the work area. The 3-chamber decontamination unit shall comprise a dirty room, a shower room and a clean room of at least 1m x 1m base each with 3 layers of fire retardant polyethene sheet where all workers shall carry out decontamination procedures before leaving the work area. Warning signs in both Chinese and English should be put up in conspicuous areas.					

Recommen	ded Mitigation Measures	Location and Timing	Who to implement?	When to Implement?	What Requirements or Standards to Achieve?	Status
	All workers shall wear full protective equipment, disposable protective coverall (such as Tyvek) (with hood and shoe covers), nitrite gloves, rubber boots (or boot covers), and full-face positive pressure respirators equipped with a combination cartridge that fillers particulate and removes organic vapour. The organic vapour protection is an added protection against the unlikely exposure to any vapour. If ACM is identified in building structures where moderately contaminated DCM or moderately/severely contaminated HMCM / PAHCM is found, relevant abatement measures for building structures described in the AAP (see 7.7.16) should be implemented prior to the above site preparation.					
Decontamin ation, demolition and handling	The cremators/flue/chimney shall be removed from top down starting from the chimney. Any ash or residues attached to the cremators/flue/chimney or any other building structures shall be removed by scrubbing and HEPA vacuuming. Wastes generated from the containment or decontamination unit including the protection clothing of the workers such as the coverall, nitrile glove, rubber boots and materials used for wet wiping shall be disposed of at landfill site.	Cremator room in Existing Crematorium / demolition	Contractor	Demolition stage	Waste Disposal (Chemical Waste) (General) Regulation	- N/A

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Recommen	ded Miligation Measures	Location and Timing	Who to implement?	When to Implement?	What Requirements or Standards to Achieve?	Status
	After completion of removal, decontaminate all surfaces by HEPA vacuum.					
	If ACM is identified in building structures where moderately contaminated DCM or moderately/severely contaminated HMCM / PAHCM is found, relevant abatement measures for building structures described in the AAP (see 7.7.16) should be implemented prior to					
Treatment	the above decontamination, demolition and handling measures. The ash waste contains dioxin/heavy					•
	metals and in its untreated state would be classified as a chemical waste under the Waste Disposal (Chemical Waste) (General Regulation. While the quantity of DCM/HMCM is not expected to be significant, the levels of dioxin and heavy metals would affect the treatment option. Immobilization of the contaminated materials by mixing with cement followed by disposal at landfill (if landfill disposal criteria can be met) would be the most preferable option.					
	Rather than bealing the already incinerated ash waste by incineration, the ash waste with moderately contaminated					•

Recommended Mitigation Measures	Location and Timing	Who to implement?	When to implement?	What Requirements or Standards to Achieve?	Status
DCM or moderately/severely contaminated HMCM / PAHCM should be collected and stabilized to meet landfill disposal criteria of the Facilities Management Group (FMG) of EPD. In this case it is envisaged that the process would involve collection and mixing of the ash waste with cement. Pilot mixing and TCLP tests should be carried out to establish the appropriate ratio of cement to ash waste to the satisfaction of EPD. It is envisaged that the pilot tests would involve the mixing of say 5%, 10% and 15% ratios of cement to ash waste and three replicate of 300 mm cube blocks for each ratio. TCLP tests should then be used to establish the correct ratio of cement to ash waste to the satisfaction of EPD.				Achieves	

	nded Mitigation Measures	Location and Timing	Who to Implement?	When to Implement?	What Requirements or Standards to Achieve?	Status
Disposal	After immobilization of the ash waste by mixing with cement in the correct ratio as determined by the pilot mixing and TCLP test, the waste materials should be placed inside polyethene lined steel drums for disposal at landfill. Transparent plastic sheeting of 0.15 mm thickness low-density polyethene or PVC should be employed. The drums should be 16 gauge steel or thicker and fitted with double bung fixed ends adequately sealed and well labelled in new or good condition. The drums should be clearly marked "DANGEROUS CHEMICAL WASTE" in English and Chinese. Prior agreement of the disposal criteria from the FMG of EPD and agreement to disposal from the tandfill operator must be obtained. As a fall back option, if the landfill disposal criteria cannot be met after immobilization of the ash waste, disposal at the CWTC should be considered. The building structures will be disposal of at landfill.	Cremator room in Existing Crematorium / demolition	Contractor	Demolition stage	Waste Disposal (Chemical Waste) (General) Regulation	N/A

Recommend	ded Miligation Measures	Location and Timing	Who to implement?	When to implement?	What Requirements or Standards to Achieve?	Status
Severely Con. Demolition of Procedure for	If ACM is identified in building structures where moderately contaminated DCM or moderately/severely contaminated HMCM / PAHCM is found, relevant disposal measures for building structures described in the AAP (see 7.7.16) should be implemented instead. and inspection of carminated DCM from the Existing Cramatorium demolition, handling, treatment and verely Contaminated DCM	Cremator room in Existing Crematorium / demolition	Contractor	Demolition stage	Waste Disposal (Chemical Waste) (General) Regulation	N/A
Item	Procedure					
į	Except the cremators/flue/chimney, all removable ilems where severely contaminated DCM is identified should be removed from the cremator room as far as practicable to avoid obstructing the decontamination activities. Preliminary site decontamination of all debris shall be carried out using HEPA vacuum cleaner. The walls, floor and ceiling of the cremator room where severely contaminated DCM located shall be lined with 3 layers of fire relardant polyethene sheets. The top portion of the chimney above the roof shall be enclosed by a chamber with three layers of polyethene sheets. At the entrance to the cremators/flues/chimney, a 3-chamber				-	

	Location and Timing	Who to Implement?	When to implement?	What Requirements or Standards to Achieve?	Status
decontamination unit shall be constructed for entry and exi from life work area. The 3-chamber decontamination unit shall comprise a dirty room, a shower room and a clea room of at least 1m x 1m base each with 3 layers of fire retardant polyethene sheet where all workers shall carry or decontamination procedures before leaving the work area. Warning signs in both Chinese and English should be put up in conspicuous areas. Air movers should be installed at the cremator room, and at the bottom of the chinney to exhaust air from the work area. A stand-by air mover shall also be installed with each of the air movers. Sufficient air movement shall be maintained to give a minimum of 6 air changes per hour to the work area, and maintain a negative pressure of 0.05-0.15 inches of water within the work area throughout the entire course of the decommissioning works. A pressure monitor with printout records and audible alarm shall be installed at an easily accessible location to demonstrate thal	t d			Achieve?	
negative pressure is maintained. New pre-filters and HEPA filters shall be used on the air movers.					

Recommended Miligation Measures	Location and Timing	Who to implement?	When to implement?	What Requirements or Standards to	Status
the air movers should be kept on site for inspection upon request. The appointed contractor shall also check the differential pressure of the air mover to make sure the filter is not blocked. A differential pressure above 0.2 inches of water indicates that the filters would need to be changed. Smoke Test: before commencement of the decommissioning work, a smoke test with non-toxic smoke shall be carried out to ensure the air-tightness of the containment. Also check whether there are stagnant air pockets indicated by an aggregate of smoke that cannot effectively be extracted. After a successful test, switch on the air mover to exhaust smoke from the containment and to give a minimum of 6 air changes per hour, and check visually to see that the filters	Cremator room in Existing Crematorium / demolition	Contractor	Demolition stage	Standards to Achieve? Waste Disposal (Chemical Waste) (General) Regulation	N/A
screen out the smoke effectively and if the pressure gauges read normal. If not, the air mover shalt be sealed up and returned to the supplier workshop for necessary servicing, and replaced by a tested air mover. The normal reading pressure range for maintaining 8 air changes per hour shalt be 1.5-4 mm/0.05-0.15 inches of water or equivalent					

Recommended Mitigation Measures	Location and Timing	Who to Implement?	When to implement?	What Requirements or Standards to Achieve?	Status
Integative pressure). The audible alarm's integrity should also be checked and the trigger shall be at <1.5 mm/0.05 inches of water (negative pressure). Otherwise securely seat up all openings before switching off the air mover. Treatment of WasterWorkers Safety Protection: the contractor shall be required to register as a Chemical Waste Producer. All workers shall wear full protective equipment, disposable protective equipment, disposable protective coverall (such as Tyvek) (with hood and shoe covers), nitrile gloves, rubber boots (or boot covers), and full-face positive pressure respirators equipped with a combination cartridge that filters particulate and removes organic vapour. The organic vapour protection is an added protection against the unlikely exposure to any vapour as a necessary					
measure. If ACM is identified in building structures where severely contaminated DCM is found, relevant abatement measures for building structures described in the AAP (see 7.7.16) should be implemented prior to the above site preparation.					

	led Mitigation Measures	Location and Timing	Who to Implement?	When to implement?	What Requirements or Standards to Achieve?	Status
Decontamin ation, demolition and handling	The cremators/flue/chimney shall be removed from top down starting from the chimney. Any ash or residues attaching to the cremators/flue/chimney or any other building structures shall be removed by scrubbing and HEPA vacuuring. The detached sections of the building structures where severely contaminated DCM is located shall be wrapped with 2 layers of fire retardant polyethene sheets. A third layer shall then be wrapped and secured with duct tape. Decontaminate the outer layer of the wrapped flue sections by wet wiping.	Cremator room in Existing Crematorium / demolifion	Contractor	Demolition stage	Waste Disposal (Chemical Waste) (General) Regulation	N/A
	Wastes generated from the containment or decontainment or decontamination unit including the fire retardant polyethene sheets, protection clothing of the workers such as the coverall, nitrile glove, rubber boots and materials used for wet wiping shall be disposed of at lanofill site.	Cremator room in Existing Crematorium / demolition	Contractor	Demolition stage	Waste Disposal (Chemical Waste) (General) Regulation	NIA

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Recommended Mitigation Measures	Location and Timing	Who to Implement?	When to implement?	What Requirements or Standards to Achieve?	Status
The quantity of wastewater generated from the decontaminated process will be very small but the contractor should take precautionary measures as to minimize the quantity of contaminated water arising. Nevertheless, if any contaminated wastewater needs to be discharged out of the sile, it has to be properly treated to WPCO requirements with prior agreement from EPD on discharge standards. After completion of removal, decontaminated the surface where severely contaminated DCM was located, including the wrapped incinerator furnace and flue sections left within the containment, by wet wiping and HEPA vacuum. Then spray the innermost layer of the fire retardant polyethene sheet covering the wall, ceiling and floor with PVA. Upon drying, peel off this innermost layer of the polyethene sheet covering the containment and dispose of at landfill site.					

Recommend	ded Miligation Measures	Location and Timing	Who to Implement?	When to implement?	What Requirements or Standards to Achieve?	Status
	Repeat the above decontamination procedure for the second innermost tayer of fire retardant polyethene sheet by wet wiping and HEPA vacuuming. After spraying with PVA, peel off this second innermost tayer of the polyethene sheet covering the wall, ceiling and floor and dispose of at landfill site. Finally, the last tayer of polyethene sheet shall then be taken down after spaying with PVA and be disposed as contaminated wastes.				Achieve	
Treatment and disposal	If ACM is identified in building structures where severely contaminated DCM is found, relevant abatement measures for building structures described in the AAP (see 7.7.16) should be implemented prior to the above decontamination, demolition and handling measures. Waste to be disposed to CWTC: all contaminated ash waste with severely contaminated DCM removed and the used HEPA filters shall be sent to CWTC in Tsing Yi, The total volume should be	Cremator room in Existing Crematorium / demolition	Contractor	Demolition stage	Waste Disposal (Chemical Waste) (General) Regulation	N/A

Recommended Mitigation Measures	Timing	Who to Implement?	When to implement?	What Requirements or Standards to Achieve?	Slatus
Waste to be Disposed		1		. torricte :	
other wastes including	the building			1	
structures and its asso	ciated panels as		[1
well as wastes genera	led from this	1	i	į.	
decommissioning work	s are also	ľ	1		
considered as contami	nated waste and	ļ			i
shall be		l		i]
disposed of at a design	ated landfill.		i		!
Wasles generated from				ł	
decommissioning work	s refer to the	,	ł.		
polyethene wrapping s	neets for the		İ		}
building structures, was	te generated	1		J	
from the dismantlemen	l of the	1		7	
containment					
and deconlamination u	nils, and cloth		1	1	
used in wet wrapping, a	etc. as	1	ł		
previously	l	ľ	ŀ	· I	
described in this section	ı. They shall be	1	1	1	
placed into appropriate	containers	ľ	i		
such	· • •		[1 1	!
as drums, jerricans, or	neavy duty and	1		ľ	
leak-proof plastic as a r	rudent			l i	
approach.				į [
A disposal permit has to	be obtained		1		
from the Authority. The	disposal trip	į.	}	i	
ticket			1	i i	
is required to be made:	vailable as	ì	i	· ·	
record after disposal,		ľ	ĺ		
If ACM is identified in bo	ilding	, , , , , , , , , , , , , , , , , , ,		i i	
structures where severe					
contaminated DCM	·	t t		l i	
is found, relevant dispo-	al measures			1	
for building structures d			1	1	
AAP (see 7.7.16) should				1 1	
implemented in prior to			1	ĺ	
disposal			!		
measures.		1	1] [•

Recommended Miligation Measures .	Location and	Who to	When to	What	Status
	Timing	Implement?	Implement?	Requirements or Standards to Achieve?	Status
Dioxin Containing Materials (DCM) / Heavy Metal		1			·
Containing Materials (HMCM) Polyaromatic Hydrocarbon Containing Materials				1	
(PAHCM) / Total Petroleum Hydrocarbon		1			
Containing Materials (TPHCM) / Polychlorinated	i		ľ	İ	Í
Biphenyls Containing Malerials		ľ	ĺ		1
(PCBCM) from Soil Remediation at the Project Site	-	1		ľ	
According to the CAR and RAP, less than 100 m3 of	Locations S3 and	Contractor	Demolition stage	ProPECC PN3/94	
soil would require disposal at langfill.	S5 of CAP /	Commedia	Demoinion stage	APCO	N/A
Relevant health and safety procedure, waste disposal	demolition]	APCO	l .
requirements and compliance report are			1	1	
as detailed in Figure 6.3. Mitigation measures to avoid			•		1
fugitive dust emission mentioned in				1	1
5.4.7.2 should also be observed.	<u> </u>				
In addition, after decommissioning but before	CLP secondary	Contractor	Demolition stage	ProPECC PN3/94	N/A
demolition of the Existing Crematorium, further investigations during Phase I of the works at the	substation / after	}	}	1	
vicinity of CLP secondary substation	decommission and before demolition	ì			ļ
should also be carried out to determine if additional	Detate demonition	1		-	
remediation (in addition to the current		l			
RAP) is required. Confirmatory lest on levels of DCM,				1	
HMCM and PAHCM in locations S1	i			}	
to S6 during Phase II of the works is also required to			1	1	
determine any further remediation	1				
/treatment/disposal. In addition, the ash waste in		'	Į	1	
cremator/chimney/flues should also be			· [
collected for the testing of DCM/HMCM/PAHCM during Phase II of the works. The			ļ	· i	
sampling and analysis plan should be prepared and				·	
submitted to EPD for approval.					
All the aforementioned ACM / DCM / HMCM / PAHCM	Project site /	Contractor	Demolition stage		****
/ TPHCM / PCBCM are classified	demolition	Commencion	Demoinion stage	Waste Disposal (Chemical Waste)	N/A
as chemical waste. In addition to the measures			Ì	(General)	
mentioned above, the packaging, labelling			1	Regulation	
and storage practices of chemical waste as stipulated	ļ			1,090,010,1	
in the following paragraphs should also	. 1				
be applied to these contaminated materials.			1	L	

Recommended Mitigation Measures	Location and	Who to	When to	What	Status
	Timing	Implement?	Implement?	Requirements or Standards to Achieve?	
Chemical Waste All the chemical waste should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. The Contractor should register as a chemical waste producer. The chemical waste should be stored and collected by an approved contractor for disposal at a licensed tacility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. Containers used for the storage of chemical waste should:	Project site / demolition	Contractor	Demolition stage	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Waste Disposal (Chemical Waste) (General) Regulation.	
 Be suitable for the substance they are holding, resistant to corrosion, maintained in good condition, and securely closed; 					
 Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and 		<u> </u>			
 Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation. 					
The storage area for chemical waste should: Be clearly labeled and used solely for the storage of chemical waste:				· · · · · · · · · · · · · · · · · · ·	1/1/
Be enclosed on at least 3 sides;				į	
 Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest; 					
Have adequate ventilation;					
 Be covered to prevent rainfall from entering (water collected within the bund must be tested and disposal as chemical waste if necessary); and 			·		-
Be properly arranged so that incompatible					

Recommended Miligation Measures	Location and Timing	Who to Implement?	When to implement?	What Requirements or Standards to Achleve?	Status
materials are adequately separated.					1
The chemical waste should be disposed of by:	Project site /	Contractor	Demolition stage	Code of Practice	N/A
 A licensed waste collector; A facility licensed to receive chemical waste, such as the CWTC at Tsing Yi, which offers chemical waste collection service and can supply the necessary storage containers; and/or 	demolition			on the Packaging, Labelling and Storage of Chemical Wastes.	
A waste recycling plant as approved by EPO				Waste Disposal (Chemical Waste) (General) Regulation.	
General Refuse General refuse should be stored in enclosed bins or compaction units separated from C&D and chemical wastes. A reliable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D and chemical wastes, on a daily or every second day basis to minimize odour, pest and litter impacts. The burning of refuse on construction sites is prohibited by law. Aluminum cans are often recovered from the waste stream by individual collectors if they are segregated or easily accessible. Therefore, separately labeled bins for deposit of these cans should be provided if feasible. Similarly, plastic bottles and carton package material generated on-site should be separated for recycling as far as practicable. Site office waste should be reduced through recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered if one is available.	Project site / construction and demolition stages	Contractor	Construction and Demolition slage		•
Conduct supplementary site investigation for asbestos	Around existing	Contractor	Demolition stage	AIR, AMP/AAP to	N/A
in building structures and for dioxins, metals (the "Dutch List") and PAH in ash/particular	cremators, chimney and flues			be	
	committee and notes	<u> </u>	J	submitted under	

Recommended Mitigation Measures	Location and Timing	Who to Implement?	When to implement?	What Requirements or Standards to Achieve?	Status
matter samples.	inside cremator room / after decommissioning but prior to demolition during Phase II work			APCO, future supplementary site investigation plan	
Landscape and Visual Mitigation Measures		· · · · · · · · · · · · · · · · · · ·			
The identification of the landscape and visual impacts will highlight those sources of conflict requiring design solutions or modifications to reduce the impacts and, if possible, blend the development with the surrounding landscape. The proposed landscape mitigation measures will be described and illustrated by means of site plans and photomontage and take into account factors including:	Project site / design, construction and demolition stages	Contractor/FEH D/Arch SD	Construction and Demolition stage	EIAO-TM	N/A
Screen planting		1			
 Transplanting of mature trees with good amenity value where appropriate 			İ		
 Conservation of topsoil for reuse 		}	1	1	
 Sensitive alignment of structures to minimise disturbance to surrounding vegetation 					
 Reinstatement of areas disturbed during construction]	
 The design and finishes I colours of architectural and engineering structures such as terminals and pylons 					
 Existing views, views of the development with no mitigation, views with mitigation at day one of operation and after 10 years of operation 					
ree transplanting: The tree survey has identified the rees which will be affected by the levelopment and which could be considered for	Project site / construction and demolition as well	Contractor/Arch SD	Construction and Demolition stage	WBTC 7/2002, WBTC 14/2002, EIAO-TM	N/A

Recommended Mitigation Measures	Location and	Who to	When to	What	T Chabina
	Timing	Implement?	Implement?	Requirements or Standards to Achieve?	Status
transplanting prior to commencement of	as operation		1		
construction work. Felling is considered as a last resort	stages	1	ľ	!	
and every effort should be made to	1	ŀ			'
transplant the many good trees of high amenity value			1	Į	
to either nearby suitable sites within the			İ	l	J
cemetery or to available space in FEHD's Wo Hop	1	1			1
Shek Crematorium pending identification	İ	ľ			
of an alternative site. The feasibility of transplanting will	i				
depend on a number of factors such	ĺ		1		
as size, health and species of the tree. Adequate time	[F
(a minimum of 4 months) should be			ļ	1	
allowed for preparing trees for transplanting. Weekly			i		
inspection of tree protection measures	ļ	}	•		
as well as monitoring of tree transplant operations during both phases should be			1		
implemented. Particular care should be taken to save	,		i	1	
the 9 nos, mature and semi-mature		ì	1	l	•
protected free species and 12 nos, protected shrub		1	i		
and immature free species identified. To		1	1		
give the protected species the best possible chance of			l	1	
survival it is recommended that they are				1	
relocated to sheltered and well maintained planted			1		
areas within the cemetery. The following			1		
measures for tree transplanting should be adopted:				1	
(a) Appoint a landscape contractor for the		ì			-
establishment and maintenance of the			i	ļ	
transplanted trees as well as any new tree planting for		1	ł	i I	i
12 months upon completion of		ŧ			
the works.					
(b) Careful co-ordination of Phase I and II works to				1	J
allow tree transplanting from Phase II				1	1
site directly to Phase I site.		ļ			
Tree protection: Trees to be retained adjacent to works	Project site /	Arch SD	Construction and	WBTC 7/2002	N/A
areas will be carefully protected by	construction and		Demolition stage	WBTC 14/2002,	
strong hoarding and if necessary additional protection to individual tree trunks to avoid	demolition stages		1 .	EIAO-TM	
			· .		
damage by machinery. The hoarding will also prevent		JJ	L		

Doormanded Militarian Manager	T.L. analtan and	- WE: 7.	1 tage	T	
Recommended Mitigation Measures	Location and Timing	Who to Implement?	When to implement?	What Requirements or Standards to Achieve?	Status
contractors from compacting soil around free roots or dumping materials. Reference should be made to the guidelines for free protection in the Government publication "Tree Planting and Maintenance in Hong Kong".					
Topsoil conservation: Any topsoil excavated during construction will be carefully saved and stored to one side of the works area for reuse upon completion.	Project site / upon completion of construction works for each phase	Arch SD	Construction and Demolition stage	WBTC 7/2002, WBTC 14/2002, EIAO-TM	N/A
Replanting: Upon completion planting of ornamental trees and shrubs will be provided to the periphery of the new crematorium building to help screen and soften the overall appearance of the structure. In addition, a reprovisioned memorial garden with a lotus pond and ornamental planting will be incorporated in the deck area of the building. Since the majority of the new planting will be on the deck structure the selection of species will be more limited with emphasis on smaller trees and ornamental shrubs to comply with loading restrictions. Notwithstanding this site constraint on tree selection, a minimum of 1.2m soil depth will be provide for tree planting on the podium / roof structure for healthy establishment of the new tree planting.	Project site / upon corrupletion of construction works for each phase	Arch SD	Construction and Demoilion stage	WBTC 7/2002, WBTC 14/2002, EIAO-TM	N/A
Weekly inspections of tree protection measures as well as monitoring of tree transplant operations.	Project site I Phase I & II works	Project Landscape Architect	Construction and Demolition stage	Landscape Master Plan, Tree Planting and Maintenance, in Hong Kong	NIA
Water Quality Mitigation Measures	, ,				
Construction and Demotifion Phases – General To safeguard the water quality of the WSRs potentially affected by the Project works, the	Project site / construction and demolition stages	Contractor	Construction and Demolition stage	ProPECC PN 1/94	7

Recommended Miligation Measures	Location and Timing	Who to implement?	When to implement?	What Requirements or Standards to Achieve?	Status
contractor should implement appropriate mitigation measures with reference to the Practice Note for Professional Persons, Construction Site Drainage (ProPECC PN 194) published by EPD. Such measures are highlighted as follows.				, rankee.	
Construction and Demofition Phases - Construction and Demofition Run-off and Drainage Exposed soil areas should be minimized to reduce the potential for increased sitation, contamination of run-off and erosion. Any effluent discharge from the Project site is subject to the control of Water Pollution Control Ordinance (WPCO) discharge itcense and should be treated to meet the discharge standard set out in the relevant license. In addition, no sile run-off should enter the stream on the eastern side of the Project site. Run-off impacts associated with the construction and demoilition activities can be readily controlled through the use of appropriate mitigation measures, which include:	Project site / construction and demolition stages	Contractor .	Construction and Demolition stage	ProPECC PN 1/94	
 Temporary ditches should be provided to facilitate run-off discharge into appropriate watercourses, via a silt retention pond 					
Boundaries of earthworks should be marked and surrounded by dykes					
Open material storage stockpiles should be covered with tarpaulin or similar fabric to prevent material washing away					
 Exposed soil areas should be minimized to reduce the potential for increased sittation and contamination of run-off 				:.	
Earthwork final surfaces should be well compacted and subsequent permanent work should be immediately performed		·	·		
Use of sediment traps wherever necessary					ĺ

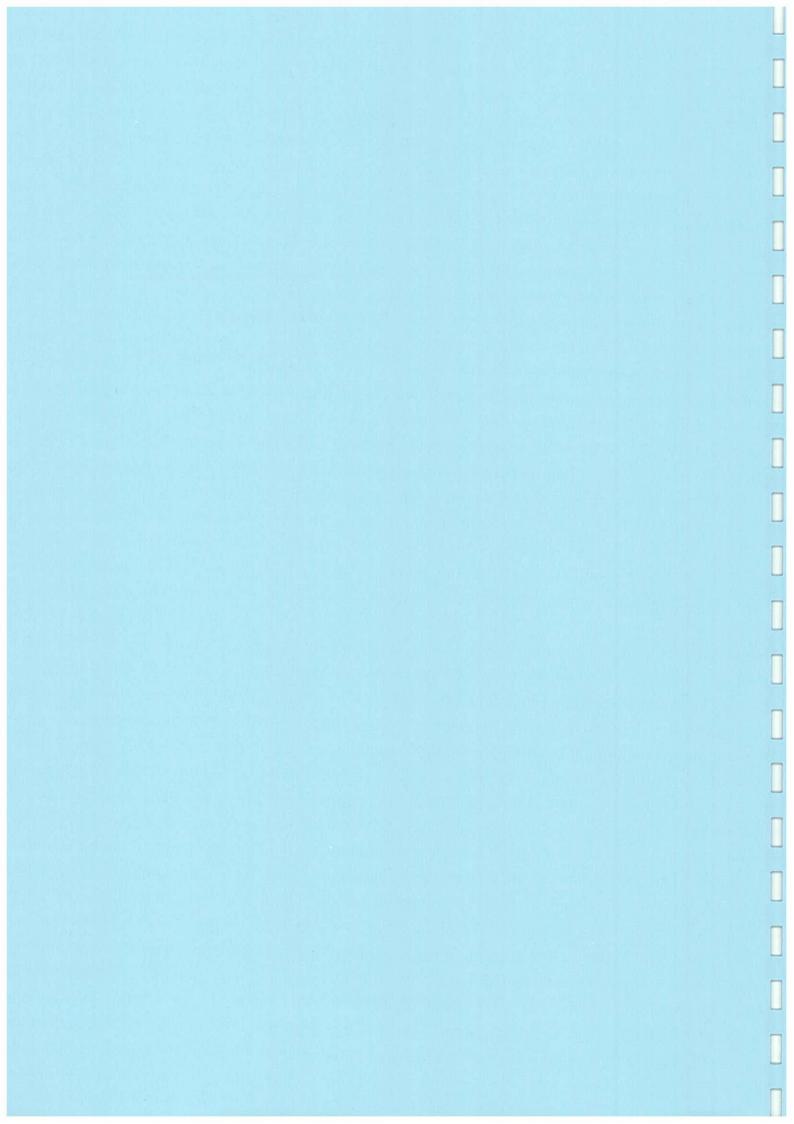
Recommended Miligation Measures	Location and Timing	Who to Implement?	When to implement?	What Requirements or Standards to Achieve?	Status
 Maintenance of drainage systems to prevent flooding and overflow 					
All temporary drainage pipes and culverts provided to facilitate run-off discharge should be adequately designed to facilitate rapid discharge of storm flows. All sediment traps should be regularly cleaned and maintained. The temporarily diverted drainage should be reinstated to its original condition, when the construction/demolition work is completed.					1
Sand and silt in wash water from wheel washing facilities should be settled out and removed from discharge into temporary drainage pipes or culverts. A section of the haut road between the wheel washing bay and the public road should be paved wilh backfall to prevent wash water or other site run-off from entering public road drains.					1
Dil interceptors should be provided in the drainage system downstream of any significant oil and grease sources. They should be regularly naintained to prevent the release of oil and prease into the storm water drainage system after socidental spillage. The inceptor should have a bypass to prevent flooding during periods of leavy rain, as specified in ProPECC PN 1994.	Project site / construction and demolition stages	Contractor	Construction and Demolition stage	ProPECC PN 1/94	N/A
Construction and Demolition Phases - General Construction and Demolition Activities All the solid waste and chemical waste generated on its should be collected, handled and isposed of properly to avoid affecting the water quality of the nearby WSRs. The proper raste management measures are detailed in \$.7.7.5-	Project site / construction and demolition stages	Contractor	Construction and Demolition stage	ProPECC PN 1/94	1
onstruction and Demolition Phases - Sewage enerated from On-site Workforce	Project site / construction and	Contractor	Construction and Demolition stage	ProPECC PN 1/94	4

Recommended Mitigation Measures	Location and Timing	Who to Implement?	When to Implement?	What Requirements or Standards to Achieve?	Status
The sewage from construction work force is expected to be handled by portable chemical toilets in the Project site are not adequate. Appropriate and adequate portable toilets should be provided by licensed contractors who will be responsible for appropriate disposal and maintenance of these facilities.	demolition stages				
Construction and Demolition Phases - Soil Remediation Activities Mitigalian measures with need to be implemented during the currently identified soil remediation activities. If further land contamination investigation results (at CLP secondary substation during Phase I and at locations S1 to S6 during Phase II) confirm the needs for further soil remediation prior to demolition of the Existing Crematorium, relevant water	Project site / construction and demolition stages	Contractor	Construction and Demolition stage	ProPECC PN 1194	
quality miligation measures (in addition to the current RAP) will need to be identified and implemented by the contractor. In addition, the miligation measures recommended for minimizing water quality impacts for construction and demolition run-off and drainage as well as for general construction and demolition activities should also be adopted where applicable.		÷.		·	
In order to avoid impacts on water quality during further temedial works, care will be taken to minimize the mobilisation of sediment during excavation and transport. Measures to be adopted will be based on the recommendations set out in Practice Note for Professional Persons ProPECC PN194 "Construction Site Drainage". The results of the site investigation suggest that there is unlikely to be any requirement for dewatering of					

Recommended Mitigation Measures	Location and Timing	Who to implement?	When to implement?	What Requirements or Standards to Achieve?	Status
excavalions, since groundwater was not encountered in any of the exploratory holes. The contractor carrying out the remediat works will be required to submit a method statement detailing the measures to be taken to avoid water quality impacts. Typical measures would include: Carry out the works during the dry season (i.e. October to March) if possible Use bunds or perimeter drains to prevent run-off water entering excavalions Sheet or otherwise cover excavations whenever rainstorms are expected to occur Minimise the requirements for stockpiting of material and ensure any stockpites are covered Temporary on-site stockpiting of contaminated materials should be avoided, all excavated contaminated soils/materials should be disposed of on a daily basis Ensure that any discharges to storm drains pass through an appropriate sit! trap				Achieve?	

Compliance of mitigation measure Non-compliance of mitigation measures Non-compliance but rectified by the contractor Not applicable

APPENDIX G STATUS OF ENVIRONMENTAL PERMITS/LICENCES

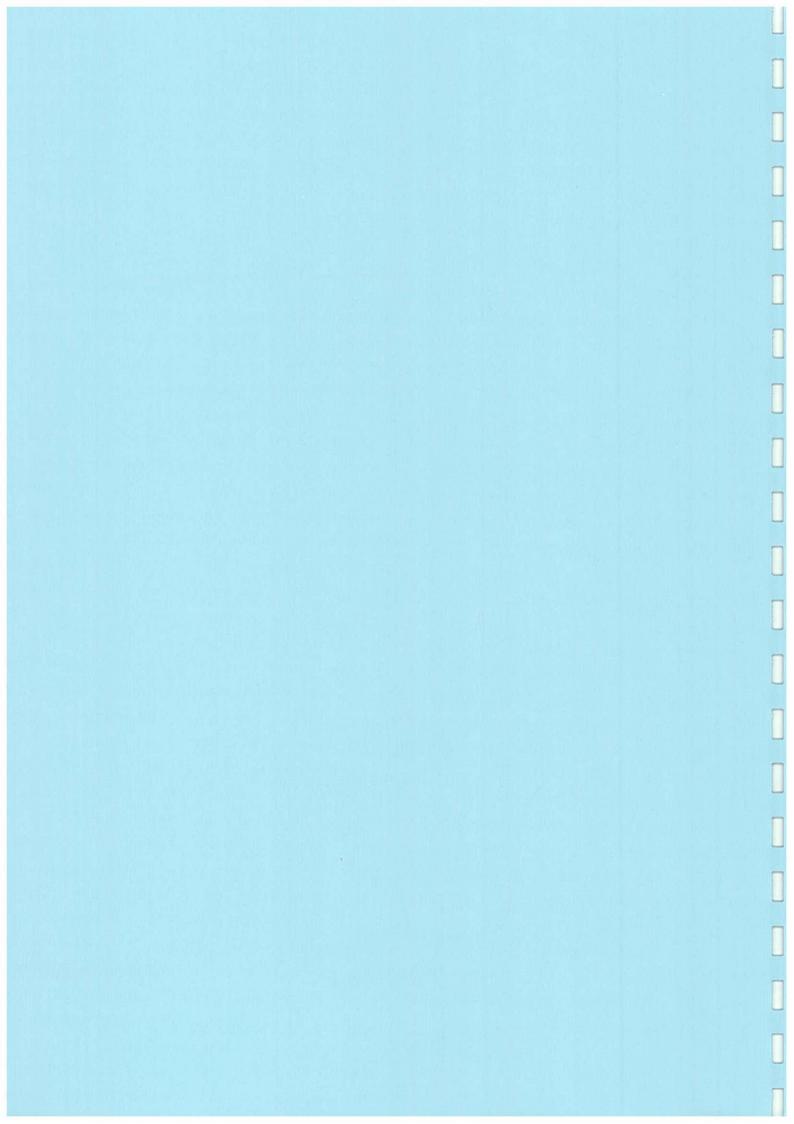


Appendix G Status of Environmental Permits/Licenses

Permit No.	Valid Period			. 1	Status			
remit No.	From	То						
Environmental Permit & Further Environmental Permit								
EP-179/2004/C	5 Dec 2007	N/A	Reprovisioning Crematorium	of	Diamond	Hill	Valid	
Registration as a (Chemical W	aste Produc						
5213-288-C3108- 10	6 Dec 2004	N/A	Reprovisioning Crematorium	of	Diamond	Hill	Valid	
Water Discharge L	icense				***			
RE/C0202/288/2	16 Oct 2007	31 Mar 2010	Reprovisioning Crematorium	of	Diamond	Hill	Valid	
Construction Nois	e Permit	<u>.</u>						
GW-RE0066-08	19 Mar 2008	18 Sep 2008	Reprovisioning Crematorium	of	Diamond	Hill	Valid	

			_

APPENDIX H
CUMULATIVE STATISTICS ON
COMPLAINTS, NOTIFICATION OF
SUMMONS AND SUCCESSFUL
PROSECUTIONS



Appendix H

Cumulative statistics on complaints, notifications of summons and successful prosecutions

	Date Received	Subject	Status	Total no. recorded in this quarter	Total no. recorded since project commencement
Environmental complaints	-	-	-	0	1
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0

	,	