

Acuity Sustainability Consulting Limited

Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. Temporary Office: Lot 12, Tam Kon Shan Road, Tsing Yi, N.T. Tel.: (852) 2333 6823 Fax.: (852) 2333 1316

Project no.: CJO-3848

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT (EM&A) REPORT (NO. 6)

FOR

Expansion of Research and Residential Facilities for the Swire Institute of Marine Science, The University of Hong Kong at Cape D'Aguilar, Shek O

(Rev. 0)

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT (EM&A) REPORT (NO.6) -

FOR

EXPANSION OF RESEARCH AND RESIDENTIAL FACILITIES FOR THE SWIRE INSTITUTE OF MARINE SCIENCE

	Name	Signature
Prepared by	Ms. Cheung, Karen, K.Y.	
Checked & Reviewed by	Mr. Tsui, Nelson, T. H.	
Approved by	Mr. Li, Kevin, W. M. Independent Environmental Checker (IEC)	5

TABLE OF CONTENTS

EXECUTIVE SUMMARY

- 1. Introduction
 - 1.1 PROJECT BACKGROUND
 - 1.2 ORGANIZATION STRUCTURE
 - 1.3 SCOPE OF REPORT
 - 1.4 SUMMARY OF CONSTRUCTION WORKS
- 2. EM&A RESULTS
 - 2.1 EM&A BACKGROUND
 - 2.2 ENVIRONMENTAL LICENSES AND PERMITS
 - 2.3 IMPLEMENTATION OF ENVIRONMENTAL MITIGATION MEASURES
 - 2.4 EM&A SITE INSPECTIONS
 - 2.5 SUMMARY IF EXCEEDANCES OF ENVIRONMENTAL QUALITY PERFORMANCE LIMIT

- 3. FUTURE KEY ISSUES
 - 3.1 CONSTRUCTION PROGRAMME FOR COMING MONTHS
 - 3.2 KEY ISSUES FOR THE COMING MONTH
- 4. CONCLUSIONS AND RECOMMENDATIONS
 - 4.1 SUMMARY

LIST OF APPENDICES

Appendix A	Location of Construction Activities
Appendix B	Project Organization
Appendix C	Cumulative Statistics on, Complaints, Notifications of Summons and Successful Prosecutions
Appendix D	Environmental Monitoring Checklist

EXECUTIVE SUMMARY

- A.1 Pursuant to the Environmental Impact Assessment (EIA) Ordinance, the Director of Environmental Protection ("DEP") granted the Environmental Permit (No. EP- 537/2017) to The University of Hong Kong ("HKU") to construct and operate the designated project for "Extension of Academic Block, The Swire Institute of Marine Science, Faculty of Science, The University of Hong Kong, Cape D'Aguilar Road, Shek O" ("The Project").
- A.2 Seemly Building Construction Company Limited ("SBC") was commissioned by HKU to undertake the construction of the extension works until 9 February 2018. Percy Thomas Partnership (HK) Limited ("PTP") was appointed by HKU as the Architect. For implementation of the environmental monitoring and audit (EM&A) requirement under the Project Profile, Acuity Sustainability Consulting Limited("ASC") was appointed by PTP as the Independent Environmental Checker (IEC).
- A.3 The construction phase of the Contract commenced on 6 October 2017 for completion by end of 2018. The environmental site inspections of the EM&A programme commenced on October 2017.
- A.4 Main contract of the project between Seemly SBC and HKU was terminated on 9 February 2018, whole contract period of SBC covered from 28 March 2017 to 9 February 2018. Notification of suspension of works had been submitted to Building Department on 9th February 2018 by PTP. HKU will take up all responsibility of the Contractor until further notice.
- A.5 This is the 6th monthly Environmental Monitoring and Audit Report for this Contract covering the period from 6 March 2018 to 5 April 2018 (the Reporting Period). The contract was terminated on 9 February 2018, thus no construction activities was conducted in the reporting period.
- A.6 IEC Monthly Environmental Site Audit under the EM&A requirement in this reporting period was conducted on 22 March 2018.
- A.7 No environmental complaint was received via EPD in this reporting period.
- A.8 No notification of any summons and successful prosecutions was received in this reporting period.
- A.9 No reporting change was made in this reporting period.
- A.10 No major works for this Project in April 2018 will be conducted.
- A.11 EM&A monitoring for the 5th reporting period has been completed. The 6th monthly EM&A report will cover the period from 6 April 2018 to 5 May 2018.

1. INTRODUCTION

1.1. PROJECT BACKGROUND

- 1.1.1. Pursuant to the Environmental Impact Assessment (EIA) Ordinance, the Director of Environmental Protection ("DEP") granted the Environmental Permit (No. EP- 537/2017) to The University of Hong Kong ("HKU") to construct and operate the designated project for "Extension of Academic Block, The Swire Institute of Marine Science, Faculty of Science, The University of Hong Kong, Cape D'Aguilar Road, Shek O" ("The Project").
- 1.1.2. Seemly Building Construction Company Limited ("SBC") was commissioned by HKU to undertake the construction of the extension works until 9 February 2018. Percy Thomas Partnership (HK) Limited ("PTP") was appointed by HKU as the Architect. For implementation of the environmental monitoring and audit (EM&A) requirement under the Project Profile, Acuity Sustainability Consulting Limited was appointed by PTP as the Independent Environmental Checker (IEC).
- 1.1.3. Main contract of the project between Seemly SBC and HKU was terminated on 9 February 2018, whole contract period of SBC covered from 28 March 2017 to 9 February 2018. Notification of suspension of works had been submitted to Building Department on 9 February 2018 by PTP. HKU will take up all responsibility of the Contractor until further notice.
- 1.1.4. The construction phase of the Contract commenced on 6 October 2017 for completion by end of 2018. The general layout plan of the Contract components is presented in Appendix A.

1.2. ORGANIZATION STRUCTURE

1.2.1. The organization structure of the Contract is shown in Appendix B. Contact details of key personnel are summarized in below table:

Table 1-1: Key Personnel Contact for Environmental Works

Party	Position	Name	Telephone
The University of	Assistant Director	John Sung	2816 8208
Hong Kong			
Seemly Building	Project Manager	Mr. S.K. Fan	6532 3490
Construction Co., Ltd.			
Percy Thomas	Senior Architect	Cliff Ip	2957 9611
Partnership (HK) Ltd			
Acuity Sustainability	Independent Environmental	Li, Kevin, W. M.	2333 6823
Consulting Limited	Checker (IEC)		

1.3. SCOPE OF REPORT

- 1.3.1. This is the 6th monthly IEC Report for "Extension of Academic Block, The Swire Institute of Marine Science, Faculty of Science, The University of Hong Kong, Cape D'Aguilar Road, Shek O" covering the period from 6 March 2018 to 5 April 2018 (the reporting period).
- 1.3.2. The EM&A requirements for impact monitoring are set out in the approved Project Profile (Register No. PP-548/2017). All mitigation measures recommended in the Project Profile such as the construction air quality, noise, water quality, waste management, landscape and visual, cultural heritage and ecology were identified as the key issues during the construction phase of the Project.

1.4. SUMMARY OF CONSTRUCTION WORKS

- 1.4.1. The construction phase of the Contract commenced on 6 October 2017.
- 1.4.2. The contract was terminated on 9 February 2018, thus no construction activities was conducted in the reporting period.

Project no.: CJO-3848

1.4.3. The locations of the construction activities are shown in Appendix A.

2. EM&A RESULTS

2.1. EM&A BACKGROUND

- 2.1.1. The Environmental Permit (No. EP-537/2017) required Independent Environmental Checker (IEC) to certify the implementation status of mitigation measures in a monthly audit report during the construction of the Project. Environmental site inspection for air quality, noise, water quality, waste management and ecology mitigation measures was conducted on 22 March 2018. A summary of mitigation measure is presented in Table 2-2.
- 2.1.2. The contract between SBC and HKU was terminated on 9 February, 2018. Thus, some of the mitigation measures will not be applicable for this stage. The monitoring checklist is shown in Appendix D.

2.2. ENVIRONMENTAL LICENSES AND PERMITS

2.2.1. The status of environmental license and permit is summarized in Table 2-2 below:

Table 2-1: Summary of Environmental License and Permit

License / Permit	License / Permit No.	Date of Issue	Date of Expiry	License / Permit Holder	Remark
Environmental Permit	EP-537/2017	18/05/2017	N/A	HKU	
Billing Account	Account No. 7027765	10/05/2017	-	SBC	
Waste Water Discharge License	-	-	-	-	N/A
Chemical Waste Producer	5292-197-S3753 -02	01/12/2017	-	SBC	-
Air Pollution Control Ordinance	Ref. No. 422086	12/10/2017	-	SBC	-
Construction Noise Permit	-	-	-	-	N/A

2.3. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

- 2.3.1. In response to the Project Profile (Registar No. PP-548/2017). The status of the environmental mitigation measures implemented by the Contractor in this Reporting Period was audit on 22 March 2018 and the checklist is showed in Appendix D.
- 2.3.2. The environmental mitigation measures that recommended in the project profile and environmental permit covered the issues of dust, noise, air quality, water, ecology, landscape and visual, cultural heritage and waste management and they are showed Table 2-2.

Table 2-2: Environmental Mitigation Measures

Issues	Environmental Mitigation Measures	
Air Quality	 Erection of hoarding of not less than 2.4m high from ground level along the works area that adjoins a road or other area accessible to the public, where appropriate; The works area of any excavation or earth moving operation shall be sprayed with water to maintain the entire surface wet; All dusty materials shall be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet; Cover stockpile of dusty materials by impervious sheeting or sprayed with water so as to maintain the entire surface wet or removed or backfilled within 24 hours of the excavation or unloading; Any debris shall be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the 3 sides; Ultra Low Sulphur Diesel (ULSD i.e. Sulphur content not more than 0.005%) should be used for all the onsite PME; Every vehicle shall be washed to remove any dusty materials from its body and wheels; Where a vehicle leaving the construction works area is carrying a load of dusty materials, the load shall be covered by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle; Unpaved road shall be regularly compacted and the road surface shall be kept clear of loose materials; The speed of all vehicles moving within the Site shall be restricted to minimize fugitive dust emission; All on-site PME shall be well-maintained and operated in a good manner that no black smoke will be emitted; and No PME in operation that any black smoke is emitted for more than 6 minutes in any period of 4 hours or for more than 3 minutes continuously at any one time. 	
Noise	 Care in the placement and orientation of noisy plants away from the NSRs and effective utilization of material stockpiles and other structures in screening noise from the on-site construction activities; Careful planning of construction sequence; The operation time of noisy PME should be kept at minimum; Hoarding will be erected along the site boundary for noise screening purpose; Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program; All hoods, cover panels and inspection hatches of power mechanical plant such as generator, air compressor etc. should be closed during operation; 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; Utilization of silencers or mufflers on the construction equipment to reduce noise without impairing machine efficiency, 	
Water	 Contractor shall obtain construction site discharge license from the EPD under WPCO; To prevent sewage from entering the inland water and inshore water, hoardings will be erected along the site boundary. Surface run-off from 	

	construction site shall be treated via adequately designed sand/silt
	removal facilities such as sand traps, silt traps and sedimentation tank
	or STP first to prevent sewage from entering the inland water and
	inshore water, and then collected by licensed collector and discharged
	off site;
	- The vehicle washing bay shall be located on paved area and away from
	the sensitive receivers and provided with a suitable backfill to prevent
	the site run-off from entering the public roads;
	- All water used on site shall be re-circulated and re-used for beneficial
	uses as dust suppression, wheel washing and general cleaning;
	- Online standby water sump pumps of sufficient capacity and with
	automatic devices shall be provided to prevent overflow of sewage
	from any water recycling system;
	- Open stockpiles of construction materials on site or exposed earth
	surface shall be avoided as far as practicable or, where unavoidable,
	should be covered with impervious sheet such as tarpaulin sheet or
	similar fabric during rainstorms;
	- Stagnant water shall be removed every day. Extra pumps shall be used
	to pump the water into sedimentation tank during rainy days when
	necessary;
	- Earth bund or sand bag barriers shall be provided onsite to properly
	direct storm water to the silt removal facilities such as sedimentation
	tank provided;
	- Good site practices shall be adopted to remove rubbish and litter from
	construction site to prevent the rubbish and litter from spreading from
	the site area. It is recommended to clean the construction sites on a
	regular basis;
	- Sufficient chemical toilets shall be provided in the works area and a
	licensed waste collector should be deployed to clean the chemical
	toilets on a regular basis;
	- Notices shall be posted at conspicuous locations to remind the workers
	not to discharge any sewage or sewage into the nearby environment;
	and
	- It is recommend that the Contractor include the sewage control
	measures during their onsite toolbox talk to increase the awareness of
	all workers.
	- Construction works shall be carefully planned to minimize the amount
	of wastes generated and avoid unnecessary generation of wastes;
	- Sufficient waste disposal points and regular collection of wastes shall
	be provided;
	- Different types of wastes shall be segregated and stored properly to
	promote reuse or recycling;
	- Dump truck leaving the Site shall be covered properly with impervious
	sheeting;
Waste	- Contractor shall register as a Chemical Waste Producer if chemical
Management	wastes such as spent lubricants are generated onsite. All chemical waste
1vianagement	
	shall be properly handled, stored, labeled, packaged and collected in
	accordance with the requirements of the Waste Disposal (Chemical
	Waste) (General) Regulation;
	- Surplus C&D materials (inert and non-inert) generated from the
	proposed works requiring disposal shall be properly transported to the
	proposed works requiring disposal shall be properly transported to the designated disposal facilities managed by CEDD and EPD. A trip-ticket
	proposed works requiring disposal shall be properly transported to the

	'C' 1' DEUD MOUTO M. COMO M. M. 1 . C.		
	requirements specified in DEVB TC(W) No. 6/2010 Trip Ticket System		
	for Disposal of Construction & Demolition Materials;		
	- Waste Management Plan shall be prepared in accordance with the		
	requirement specified in Building Departments Practice Note for		
	Authorized Persons and Registered Structural Engineers – Construction		
	and Demolition Waste (ADV-19);		
	- Toolbox talks shall be arranged to workers on relevant topics including		
	site cleanliness and appropriate waste management procedures,		
	including waste reduction, reuse and recycling.		
	- Access route and placement of equipment and stockpile in works area		
	shall be selected at existing developed area and disturbed land to		
	minimize disturbance on vegetation. The chosen temporary storage or		
	stockpiling area and access routes shall be far away from any identified		
	plant species of conservation importance;		
	- Construction activities will be restricted to the clearly defined works		
	area;		
Ecology	Temporary works area will be reinstated immediately after completion		
Leology	of the construction works;		
	- Disposal and treatment of waste shall be carried out in a timely and		
	proper manner		
	- Open fires will be strictly prohibited to prevent any risk of wildfire;		
	- Fire-fighting equipment should be provided in the works area before		
	the commencement of works and		
	- Resident site personnel shall ensure the Implementation of the		
	mitigation measures		
	- Design with minimum vegetation clearance		
Landasans	- Compensatory planting of native trees and shrubs		
Landscape	- Retain and preserve all plant species of conservation importance on site		
and Visual	- Amenity value improved by compensatory planting and natural		
	regeneration of plants		
	- Erection of hoarding with colour compatible to the surrounding around		
	works areas		
	- No-entry zone will be fenced off by eye-catching net at the Cape D'		
Cultural	Aguilar Lighthouse		
Cultural	- Placement of equipment and stockpile at the road section close to the		
Heritage	Lighthouse are prohibited		
	- Using manual gear for trenching work near the Lighthouse		
	- Monitor the vibration near the Lighthouse		

2.3.3. The necessary mitigation measures were implemented properly for this Contract in the reporting period.

2.4. EM&A SITE INSPECTION

- 2.4.1. Site inspection was carried out on a monthly basis to monitor the implementation of mitigation measures under the Contract. In the reporting period, site inspections were carried out on 22 March 2018.
- 2.4.2. Minor deficiencies were observed during site inspection. Key observations during the site inspections are summarized in Table 2-3.

Table 2-3: Site Observations

Date	Environmental Observations	Follow-up Status
	Waste was observed at protected zone of Elaeagnus tucheri	Rectified by HKU on 22-Mar-2018 Waste was removed and orange net was placed properly.
22-Mar-2018		
22-Mar-2018	Storage was found outdoor at Site A	Rectified by HKU on 4-Apr-2018 Materials at Site A was covered by protective canvas properly.

Date	Environmental Observations	Follow-up Status
	A STOCK TOWN A	
	Sandbags/cement was not covered	Rectified by HKU on 29-Mar-2018 Sandbags/cement was covered up properly
22-Mar-2018		

Date	Environmental Observations	Follow-up Status
	Orange net was not erected at 1m height	Rectified by HKU on 29-Mar-2018 Orange net was erected properly at 1m height
22-Mar-2018		
	Orange net was found not placed properly	Rectified by HKU on 29-Mar-2018 Orange net was placed properly
22-Mar-2018		

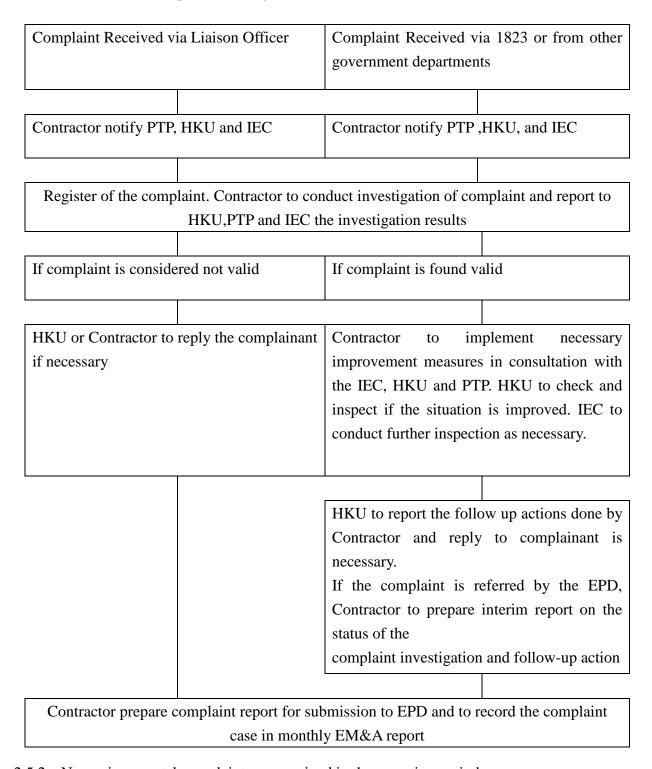
2.4.3. HKU has rectified all observations identified during environmental site inspection in the reporting period.

2.4.4. Ecology and landscape and visual monitoring had been conducted on 23 March 2018. As reported by Qualified Ecologist, all six recorded plant species of conservation importance are in good to fair condition as the previous monthly monitoring. Some yellow leaves was observed in *Lysimachia mauritiana*. Such change is probably due to natural life cycle and environmental/seasonal factors as observed during previous baseline surveys and monitoring. The only patch of *Vitis bryoniifolia* was found recovering from poor to fair conditions. Some new vines and young foliage were rediscovered within the protection zone. The original individual or vine may have wilted due to previous multiple cyclones, which have been well recorded in previous monitoring. It was struggling to survive in the last two months and therefore close monitoring in this period did not observed any regrowth of young vines and leaves. The once thriving shrubs and herbs in close vicinity were also found wilted. Next few monitoring would be important to confirm the condition of newly emerged vines and leaves, and hence the re-establishment of this plant species of conversation importance.

2.5. SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

2.5.1. The Environmental Complaint Handling Procedure is shown in below table:

Table 2-4: Environmental Complaint Handling Procedure



- 2.5.2. No environmental complaint was received in the reporting period.
- 2.5.3. No notification of summons and prosecution was received in the reporting period.

3. FUTURE KEY ISSUES

3.1. CONSTRUCTION PROGRAMME FOR THE COMING MONTHS

3.1.1. The contract of the Contractor was terminated on 9 February 2018, tendering for new Contractor is under progress, thus no construction activities will be conducted in the coming reporting period.

3.2. KEY ISSUES FOR COMING MONTH

3.2.1. Potential environmental impacts arising from the upcoming activities in April 2018 are mainly associated with ecology issues.

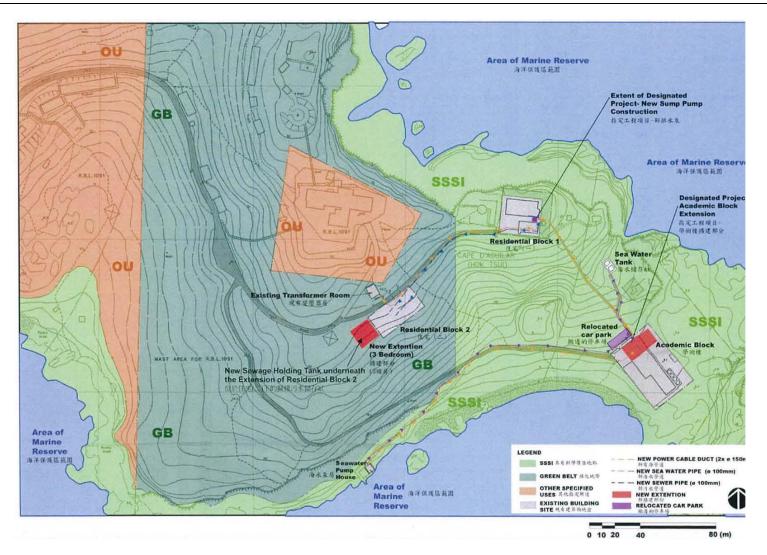
- 3.2.2. Particular issues to be considered in the coming month include:
 - Implementation of ecology mitigation measures

4. CONCLUSIONS AND RECOMMENDATIONS

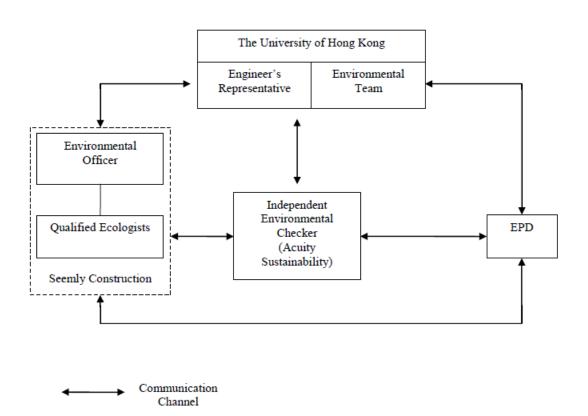
4.1. SUMMARY

- 4.1.1. Inspection was carried out on 22 March 2018. Minor deficiencies were observed during site inspection and were rectified within the reporting period. Some mitigation measures were not applicable for the current construction stage, the mitigation measures were implemented properly in general. The environmental performance of the Project was therefore considered satisfactory.
- 4.1.2. HKU is also reminded to implement the recommended environmental mitigation measures according to the Project profile and Environmental Permit.
- 4.1.3. During the previous joint site inspection, *Vitis bryoniifolia* was found dried. Some new vines and young foliage were rediscovered within the protection zone in the reporting month. The condition of *Vitis bryoniifolia* will keep monitoring and HKU is reminded to inspect the condition frequent.
- 4.1.4. Some yellow leaves was observed in *Lysimachia mauritiana*. The condition of *Lysimachia mauritiana* is being concerned and HKU is reminded to inspect the condition more frequent.
- 4.1.5. Main contract of the project between SBC and HKU was terminated on 9 February 2018. Notification of suspension of works had been submitted to Building Department on 9th February 2018 by PTP. HKU will take up all responsibility of the Contractor until further notice. Tendering for new Contractor is under progress, thus no construction activities was conducted in the reporting period.
- 4.1.6. No environmental complaint was received in the reporting period.
- 4.1.7. No notification of summons or prosecution was received since commencement of the Contract.
- 4.1.8. HKU will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix A: Location of Construction



Appendix B: Project Organization





Statistical Summary of Environmental Complaints

Reporting	Environmental Complaint Statistics		
Period	Frequency Cumulative Complaint		Complaint Nature
6 Mar 2018-	0	0	NI/A
5 Apr 2018	U	U	N/A

Statistical Summary of Environmental Summons

Reporting	Er	Environmental Summons Statistics			
Period	Frequency	Frequency Cumulative Details			
6 Mar 2018-	0	0	N/A		
5 Apr 2018	U	U	IN/A		

Statistical Summary of Environmental Prosecution

Reporting	Env	Environmental Prosecution Statistics						
Period	Frequency	Details						
6 Mar 2018-	0	0	NI/A					
5 Apr 2018	U	U	N/A					

he University of H xpansion of Resea	Hong Kong arch and Residential Facilities for the Swire Institute of Marine Science
Ionthly EM&A Re	port
	Appendix D: Environmental Monitoring Checklist



Acuity Sustainability Consulting Limited

Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. O: 2333-6823 | F: 2333-1316 | E: general@acuityhk.com | www.acuityhk.com

Inspection Date:	22 Mar, 2018	
Inspected by:	pTP: Cliff I.p Ift Knew Chewig . Tandy Tre	
Inspection Time:	10 200 a.m.	
Weather Condition:	Sunny	
Temperature:	19.400	
Wind:	light	

		N/A	Yes	No	Remarks
1. No	ise		•		
	Is the placement and orientation of noisy plants				
1.1	away from the NSRs in screening noise from the on-				
	site construction activities?	:			
1.2	Is the construction sequence carefully planned?	1			
1.3	Is the operation time of noisy PME keep at				
1.3	minimum?	<i>V</i>		.,.	
1.4	Are the hoarding erected along the site boundary for				
7.4	noise screening purpose?	V			
1.5	Do all plants operate on-site are well-maintained?	J			
1.6	Do all plants service regularly during the				*****
1.0	construction program?				****
1.7	Do all hoods, cover panels and inspection hatches of				
1.,/	power mechanical plant close during operation?	J	······································		
1.8	Are the machines and plant shut down between				
1.0	work periods or throttled down to a minimum?	V.			
2. Air	Quality				
2.1	Is the erection of hoarding not less than 2.4m high	1			
۷.1	from ground level along the works area?	<i>J</i>			
2.2	Is the hoarding not adjoined a road or other area				
۷.۷	accessible to the public?	/			



Aculty Sustainability Consulting Limited

Unit 1908, Nos. 301-305 Castle Peak Boad, Kwai Chung, N.T. O: 2333-6823 [F: 2333-1316] E: general@acuityhk.com | www.acuityhk.com

		N/A	Yes	No	Remarks
	Is the excavation or earth moving operation in the				5.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
2.3	site sprayed with water to maintain the entire	V			
	surface wet?	V			
	Are all dusty materials sprayed with water prior to				
2.4	any loading, unloading or transfer operation to]
	maintain the dusty materials wet?				
	Are the stockpile of dusty materials covered by				observation
	impervious sheeting or sprayed with water to				***************************************
2.5	maintain the entire surface wet or removed or				
	backfilled within 24 hours of the excavation or				
	unloading?				
2.0	Are debris covered entirely by impervious sheeting,				
2.6	placed in an area sheltered on the top and 3 sides?				
2.7	Is Ultra Low Sulphur Diesel used for all PME onsite?	V			
2.0	Do the site vehicles use the wheel wash at the site				
2.8	exits?	V			
2.9	Are materials transported on trucks covered?	1			
2.40	Are all trucks loaded to a level within the side and	,			
2.10	tail boards?	1			
	Is all operation less than 6 minutes in any period of 4				
2.11	hours or for less than 3 minutes continuously at any	/			
	one time?				
2.12	Is the unpaved road compacted regularly?	1			
2.13	Is the road surface kept clear of loose materials?		s, de		
2 1 4	Is the speed restricted for all vehicles moving within				
2.14	the site to minimize fugitive dust emission?				
2 45	Are PME operated in a good manner and no black				Section of the sectio
2.15	smoke emitted? (If yes, skip to part 3)				
	Are PME in operation not emitted for more than 6				
2.16	minutes in any period of 4 hours or for more than 3				
	minutes continuously at any one time?	· ·			



Aculty Sustainability Consulting Limited

Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. O: 2333-6823 | F: 2333-1316 | E: general@acuityhk.com | www.acuityhk.com

		N/A	Yes	No	Remarks
3. Wa	ter Quality				
3.1	Does the discharge licence obtain from EPD under				
3.1	WPCO by contractor?	J			
	Is the waste water prevented from entering the				
3.2	inland water and inshore water, and collected by				
	licensed collector and discharged off site?	-			
	Is the surface run-off from construction site treated				
3.3	via adequately designed sand/silt removal facilities	1			
	such as sand traps, silt traps and sedimentation tank				
	Is the STP first to prevent sewage from entering the				
3.4	inland water and inshore water, and then collected	V			
	by licensed collector and discharged off site?				
3.5	Is the vehicle washing bay located on a paved area	j			
3.5	and away from the sensitive receivers?	V			
	Is the contractor provide with a suitable backfill to				
3.6	prevent the site run-off from entering the public	1			
	roads				
	Is that all water used on site re-circulated and re-				
3.7	used as dust suppression, wheel washing and				
	general cleaning?				
	Are the online standby water sump pumps of				
3.8	sufficient capacity and with automatic devices				
	provided on site?				
	Are the open stockpiles of construction materials on				
3.9	site or exposed earth surface avoided as far as				
	practicable?(If no, answer 3.11)		<u> </u>		
	Are the open stockpiles covered with impervious				
3.10	sheet such as tarpaulin sheet or similar fabric during				
	rainstorms?				
3.11	Is the site clear from stagnant water?		V		



Acuity Sustainability Consulting Limited

Unit 1908, Nos. 301-305 Castie Peak Road, Kwai Chung, N.T. O: 2333-6823 | F: 2333-1316 | E: general@acuityhlc.com | www.acuityhlc.com

		N/A	Yes	No	Remarks
0.40	Are the extra pumps used to pump the water into				
3.12	sedimentation tank during rainy days?	/			
	Is the Earth bund or sand bag barriers provided				
3.13	onsite to properly direct storm water to the silt	1			рачина объеман
	removal facilities?				Wilderstrands
3.14	Is the construction sites cleaned on a regular basis?				
3.15	Are the good site practices adopted to remove				
3.13	rubbish and litter from construction site		1		
3.16	Are there sufficient chemical toilets provided in the				
3.10	works area?				
3.17	Is a licensed waste collector deployed to clean the	,			
5.17	chemical toilets on a regular basis?	/			
	Are there notices posted at conspicuous locations to				
3.18	remind the workers not to discharge any sewage or	. /			
	sewage into the nearby environment?	√			
	Does the contractor include the sewage control	,			
3.19	measures during their onsite toolbox talk to increase	/			
	the awareness of all workers?				
4. W a	ste Management				
	Did the construction works carefully plan to				
4.1	minimize the amount of wastes generated and avoid				
	unnecessary generation of wastes?				
4.2	Are the sufficient waste disposal points and regular	/			
4.2	collection of wastes provided?	V			
4.3	Does the contractor segregate and store different	/			
4.3	types of waste properly?	V			
	Are the dump trucks covered properly with	/			
4.4	impervious sheeting when leaving the site?	V			
ΛE	Do the Contractor register as a Chemical Waste	/			
4.5	Producer?	$\sqrt{}$			



Aculty Sustainability Consulting Limited

Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. O: 2333-6823 | F: 2333-1316 | E: general@acuityhk.com | www.acuityhk.com

		N/A	Yes	No	Remarks
	Do all chemical waste properly handled, stored,				
4.6	labeled, packaged and collected in accordance with				
4.0	the requirements of the Waste Disposal (Chemical	V			
	Waste) (General) Regulation?				
4.7	Do all C&D wastes be transported to the designated	,			
4.7	disposal facilities managed by CEDD and EPD?	V			
4.8	Did the contractor prepare Waste Management		1		
4.8	Plan?				
4.9	Did the toolbox talks include the specific topics?				
5. Eco	logy				
	Is the access route and placement of equipment and				
5.1	stockpile in work area selected at existing developed				
2.1	area and disturbed land to minimize disturbance on		1		
	vegetation?				
	Is the chosen temporary storage or stockpiling area				
5.2	and access routes far away from any identified plant				
	species of conservation importance?				
5.3	Are the construction activities restricted to the				
J.J	clearly defined works area?		\vee		
	Are the temporary works area reinstated				
5.4	immediately after completion of the construction				
	works?				
5.5	Are the disposal and treatment of waste carried out		,		
٥.٥	in a timely and proper manner		1		
5.6	Are the open fires strictly prohibited to prevent any	-	,		
	risk of wildfire?		\ \		
5.7	Are the firefighting equipments prohibited in the		/		
J./	works area before the commencement of works?				
F.0	Is there proper implementation of the mitigation				
5 <i>.</i> 8	measures ensured by the resident site personnel?		V		The state of the s



Acuity Sustainability Consulting Limited

Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. O: 2333-6823 [F: 2333-1316] E: general@acuityhk.com | www.acuityhk.com

		N/A	Yes	No	Remarks
	Do the peripheral plant individuals have a setback of				
5.9	at least 1.5m in the protection zones?		/		
	Are the protection zones set up by contractor to				
5.10	fence off 6 plant species during construction with				
	orange nets of at least 1m in height?		٧		
6. Lan	dscape and Visual				
	Do LR1,LR2,LCA1 and LCA2 compensated with	j			
6.1	planting of native trees and shrubs?	\checkmark			
6.3	Do LR1,LR2,LCA1 and LCA2 designed with minimum		./		
6.2	vegetation clearance?		V		
C 3	Do LR1,LR2,LCA1 and LCA2 retain and preserve all				
6.3	plant species of conservation importance on site?				
6.4	Do LR3 improve its amenity value by compensatory				
6.4	planting and natural regeneration of plants	V			
C F	Do VSR1,VSR2 and VSR3 erect hoarding with colour				
6.5	compatible to the surrounding around works area?				
7. Cul	tural Heritage			.,	
	Is the no-entry zone at the Cape D' Aguilar				
7.1	Lighthouse not fenced off by eye-catching orange				
	net?				
7.2	Is the road section close to the Lighthouse clear?				
7.3	Is there no excavator used at the road section close				W
/.3	to the Lighthouse?		V		
7.4	Is the manual gear used for trenching work near the Lighthouse?				
7.5	Do they monitor the vibration near the Lighthouse?	V			
8. Ot l	hers	_			
8.1	Are the mitigation measures properly implement in general?				



Acuity Sustainability Consulting Limited

Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. O: 2333-6823 | F: 2333-1316 | E: general@acuityhk.com | www.acuityhk.com

Observation:								
Odried heaves and waste was found Ostorage und waste was found Ostorage und waste was found out out								
B) sandlags / coment thought hot covered (4) Orange not was not exected at I in height (5) Orange not was found not placed property								
Signatures:								
IEC's Representative/	Main Contractor's Representative/	Architect's Representative/						
Designated Staff	Designated Staff	Designated Staff						
(Name: Kouren (bieceres)	(Name:)	(Name: (Nit Ip)						