Architectural Services Department

The Development of AFCD Animal Management and Animal Welfare Building Complex in Kai Tak Development

Monthly Audit Report No. 02 (1-30 Nov 2020)

Final | Nov 2020

This report takes into account the particular instructions and requirements of our client. It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party.

Job number 271753

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1 INTRODUCTION

1.1 Background

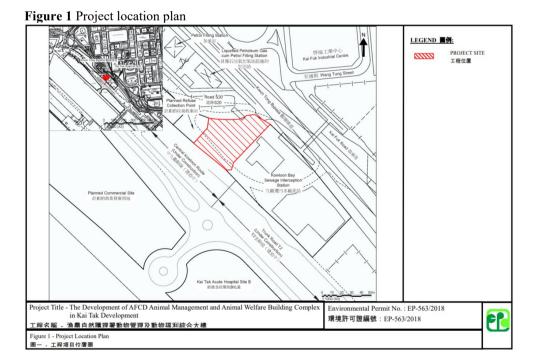
The Environmental Permit (EP) (i.e. EP-563/2018) for Development of AFCD Animal Management and Animal Welfare Building Complex in Kai Tak Development (hereinafter referred to as the Project) was issued on 10th August 2018. After the issuance of the EP, AFCD proposed refinements to the design of the Project which are referenced in the Pre-Construction Audit Report.

In accordance with Clause 2.1 of the EP, the Permit Holder shall, no later than 3 months before the commencement of construction of the Project or otherwise, deposit with the Director of Environmental Protection (DEP) of a Pre-construction Audit Report to confirm the design measures stipulated in the Project Profile (PP) (i.e. PP-569/2018), including the location of the entrance and exits, the open-air exercise areas for animals, and the air exhausts of the ventilation system of the animal keeping areas have been fully incorporated into the relevant design drawings. The said Pre-construction Audit Report was submitted to EPD and approved on 19 Mar 2020.

Arup was commissioned by ArchSD to provide Independent Environmental Checker services. The scope of the project is as follows:

(1) An animal management and animal welfare building complex, which mainly covers a quarantine centre, a veterinary testing laboratory and offices.

Figure 1 shows the Project location plan in the environmental permit EP-563/2018. **Figure 2** shows the management structure for environmental works of the Project.



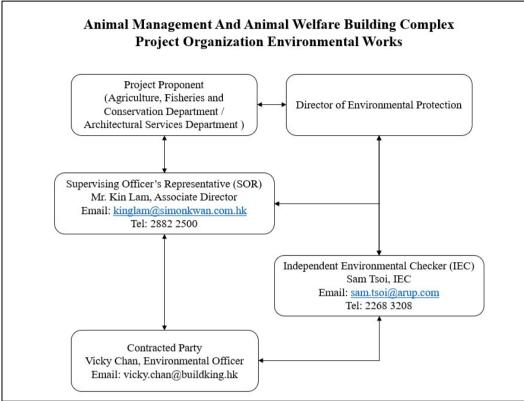


Figure 2: Management structure

1.2 Scope of the Assignment

The objective of this Project is to verify that the construction phase environmental mitigation measures stipulated in the Project Profile (Register No.: PP-569/2018) are fully implemented, and to provide all professional services of necessary technical support, professional advices, studies, coordination, verification of Contractor's submissions, and preparation of submission to EPD, etc. to ensure compliance with the EP in accordance with the PP and the study brief as follows:

- (a) Coordinate with Simon Kwan & Associates Ltd (SKA), Allied Environmental Consultants Limited (AEC) and the Contractor to check and ensure compliance with the PP and EP;
- (b) Coordinate with SKA, AEC and the Contractor and prepare all the submissions to EPD as required under EP-563/2018;
- (c) Submit Audit Reports to EPD as required under EP-563/2018;
- (d) Fulfil all duties as IEC as required by EPD under the EIAO, including, but not limited to, the verification of all relevant reports prepared by the Contractor in the course of construction; and
- (e) Attend regular & ad-hoc project meetings and environmental meetings when required.

2 Concise Overview of Assignment Period

The contract commenced on the 25th September. 2020 and the site activities carried out by the Contractor in this reporting month include:

- Hoarding erection & painting
- Set up site office
- Removal of existing slab
- Wheel washing facilities installation
- Predrilling at PD1,3,4,5
- Installation of piling rig

The environmental performance was considered acceptable during the assignment period from 1st November 2020 to 30th November 2020.

2.1 Construction phase environmental mitigation implementation status

The environmental mitigating measures to be implemented according to the approved Project Profile during the construction phase is subject to the site activities programme. The status in this reporting month is summarised in **Table 2.1**

Table 2.1: Implementation status of construction phase environmental protection measures

	Mitigation Measures	Status
Air	Demolition activities should be sprayed with water or dust suppression chemical immediately prior to, during and immediately after the activities to maintain the entire surface wet.	Implemented
	Dusty excavated material should be entirely covered by impervious sheeting or sprayed with water to maintain the entire surface wet.	Implemented
	Dusty excavated material should be removed, backfilled or reinstated where practicable within 24 hours of the excavation or unloading.	Implemented
	Hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing during any open excavation and reinstatement works. Good practice should also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;	Implemented
	Dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads or streets.	Implemented
	Bump truck loaded with dusty material should be covered entirely by impervious sheeting	Implemented

	Mitigation Measures	Status
	Vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point.	Implemented
	The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcore.	Implemented
	Road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials.	Implemented
	Effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building; a canopy should be provided from the first-floor level up to the highest level of the scaffolding as an alternative.	To be implemented, no scaffolding in the current construction phase.
	Skip hoist for material transport should be enclosed entirely by impervious sheeting.	To be implemented, no skip hoist in the current construction phase.
	Use of Powered Mechanical Equipment (PME), parallel operation and unnecessary idling in the open areas of the Project site should be limited to a minimum.	Implemented
	Movable and temporary noise barrier and enclosure should be provided for any operating PME.	Implemented
Noise	Noisy construction process should be scheduled outside school examination periods.	To be implemented, currently outside school examination periods.
	Use of quiet plant associated with the construction works as prescribed in British Standard "Noise Control on Construction and Open Sites, BS5228: Part 1: 2009"	Implemented
	Full compliance of "Recommended Pollution Control Clauses" under the Construction Contract.	Implemented
er	Full compliance of Pro PECC Note 1/94 "Construction Site Drainage"	Implemented
Water	Surface run-off and sewage effluent should be discharged into sewerage system	In progress, Wastewater Discharge License application in progress.
	General housekeeping should be practiced regularly.	Implemented
ent	C&D materials should be reused on-site Trip ticket system should be implemented and available for checking in accordance with the DEVB TCW No. 6/2010 "Trip Ticket System for Disposal of Construction and Demolition Material."	Implemented Implemented
Waste Management	Inert C&D waste and non-inert C&D waste should be properly sorted and disposed of at appropriate facilities in accordance with the Waste Disposal (Charges for Disposal of Construction Waste Regulation (Cap. 354N).	Implemented
	The Contractor is required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the "Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes"	Implemented
	Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately.	Implemented

	Mitigation Measures	Status
	Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc.	Implemented
	Chemical waste should be collected by the licensed chemical waste collector for transportation and disposal at the approved Chemical Waste Treatment Centre or other licensed treatment facilities, according to the Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354C).	To be implemented, no chemical waste was transferred to a disposal facility according to Contractor's progress report for this reporting month
	General refuse should be temporarily stored in enclosed bins or compaction units and removed from the site on a regular basis.	Implemented
	Licensed waste collectors should be employed to remove refuse from the site for disposal.	N/A (Contractor will conduct general refuse removal.)
	A dedicated access route should be used for construction vehicles.	Implemented
þ	Any lifting operation over the site boundary should be strictly minimised.	Implemented
Life hazard	Any lifting (if any) should be assessed, controlled and closely supervised by Contractors and qualified operation staff.	Implemented
7	Ignition sources should be confined within the site.	Implemented
	Work permit system for hot work activities within the Project site should be specified in the contractor's method statement	Implemented
ape	Temporary stockpile of excavated and building materials should be covered.	Implemented
Landscape	Hoardings with outlook matching with surrounding landscape should be erected.	Implemented
Τ	Any night-time glaring should be minimised.	Implemented

2.2 Summary of valid Environmental Licenses, Permits and Notifications

Summary of valid licenses, permits and/or notifications on environmental protection for the Project as extracted from the Contractor's progress report for this reporting month is given in **Table 2.2**.

Table 2.2: Summary of valid licenses, permits and/or notifications on environmental protection

License / Notification	Ref. / Account No. / Waste Producer No.	Received Date	Expiry Date
Notification Pursuant to Section 3(1) of the Air Pollution Control (Construction Dust) Regulation	Ref. No. 459968	14 Sep 2020	Construction Period
Wastewater Discharge License	N/A	Submitted Supplementary Information on 03 Nov 2020 and EPD carried out site inspection on 6 Nov 2020	Construction Period
Construction Waste Disposal Charging Scheme	7038488	28 Sep 2020	Construction Period

License / Notification	Ref. / Account No. / Waste Producer No.	Received Date	Expiry Date		
Chemical Waste Producer	Waste Producer No.	23 Oct 2020	Construction		
License	8334-286-B2491-07	23 Oct 2020	Period		
Construction Noise Permit for Percussive Piling	PP – RE0034-20	28 Sep 2020	13 Apr 2021		
Construction Noise Permit for General Construction Work	GW – RE0835-20	05 Oct 2020	20 Mar 2021		

2.3 Environmental Complaint, Summons and Prosecution

Summary of environmental complaint, summons and prosecution for the Project as extracted from the Contractor's progress report for this reporting month is given in **Table 2.3**.

Table 2.3 Summary of environmental complaint, summons and prosecution

Description	During this reporting month	Cumulative total
Public Complaint on environmental issues: (Including light nuisance complaint)	0	0
Offences spotted by EPD during inspection	0	0
Abatement Notices issued by EPD	0	0
Notification referred by EPD	0	0

2.4 Tentative Construction Activities in the Coming Two Months

Summary of forthcoming construction activities in the next two months and their corresponding potential environmental impacts and nuisance as extracted from the Contractor's progress report for this reporting month is given in **Table 2.4**.

Table 2.4 Construction activities and potential environmental impacts in the coming 2 months

Construction Activities	Environmental Impacts & Nuisance
Removal of Existing SlabPiling works	Dust pollutionNoise pollutionWaste generationWater pollution

3 Major Accomplishment

3.1 Deliverables

Deliverables reviewed or prepared in the reporting month are summarised in **Table 3.1**.

Table 3.1 Deliverables

Description	Status
Monthly Audit Report No. 2 – November 2020	Submitted

Planned deliverables to be reviewed or prepared in the coming month are summarised in **Table 3.2**

Table 3.2 Planned deliverables

Description	Expected Submission Date	Status / Revised Submission Date		
Monthly Audit Report No. 3 – December 2020	11 January 2021	22 Jan 2021		

3.2 Meetings

No meeting was held in the reporting month.

3.3 Summary of Work Done

Upon commencement of the Assignment, accumulated number of IEC monthly audit report is summarised in **Table 3.3**.

Table 3.3 Summary of work done

Work	Number
IEC Pre-construction Audit Report	1
IEC Monthly Audit Report	2

3.4 IEC Site Audit

IEC site audit was conducted on 20th November 2020 (Fri) together with the Contractor's representative. There were no major site defects observed in the reporting month. The IEC site audit checklist is attached in Appendix 1.

Appendix 1

Checklist





	Project Contract No. inspected By	271753-00 AFCD AMAW IEC's Rep. : Client's Rep. Engineer's Re Contractor's F	. Буше : П :p.: Ргед			IEC Client Contractor Inspection Day Time Period	B	FCD	ng Hol	dings	Ltd.		ΣO	
	Condition T	High	∏ Fine ☐ Hederate ☐ Ught	Overcast Cow Brecze	Storm Strong	∏ Rain	Ľ Ortz	se emper		Hazy		_	z8 ·	°c
No. 1 2 3 4 5	Is drainage syste is drainage syste is drainage syste Are there dykes Are there perime runoff from outs! Are sediment co Are there tempore	em well main am adequatel to surround a der channels de the site so ntrol measure	? lained? ly designed treas of ea at site bou that it will es inspecte	d for storm fi rthworks for inderies to in not wash ac ad & maintair	flood protect itercept stom cross the site ned after rain	n ? ny storms?	Į Ų Į					2/C 00000 10	Photos /	Remarks
8 9a 9b 10	watercourse? Are these tempo Do permanent di Is site runoff proi Is groundwater fi	nitated from e com tunnels o	nels have: entering the or surface r	sedime traps a river chann	entation basin' and baffles? ael?	?	5 5 0 5		137		000			
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17 18 19 20	tanks before disp Are there oil inte Are oil and greas is there any bypa Are vehicles and leaving the site?	rceptors in dr se removed re ss for oil to g	egularly (at prevent flus	i least weekl shing during	periods of he	eavy rain?	0 6 L		U,	Ü	0	<u> </u>	<u>=</u>	
21 22a 22b 22c 22d	is a wheel wash		adequa adequa paved : access	ate design? nte settling & access road i road sufficie	removal of sa leading to exit ntly backfill to	?	L L E L		127 127					
22e 23 24 25 26 27 28 29 30	Is exposed earth Are exposed stop Are open stockpi Are manholes co Are accessed roa Are tollets conne Are debris and n Is wastewater dis	te surfaces of les covered of vered and se ads protected cited to foul s obbish on site	ter complet overed (by during heav aled? if by crushe ewer or ch a collected	terpautin or vy rain? d stones or emical toilet and dispose	gravels? s provided?		6 6 0 0 0 0 8	0	<u>दिष्टि ए । । । । । । । । । । । । । । । । । । </u>					



The Development of AFCD Animal Management and Animal Welfare Building Complex in Kal Tak Development independent Environmental Checker Environmental Site Inspection Checklist

No.	Part III Air Quality	N/A N/O Yes Rdr Obs N/C Photos / Remarks
1	Are vehicles in the site travelling within speed limit of 10 km/h?	
2	Are site vehicle movement confined to designated haul roads?	
3	is the public road around the site entrance kept clean and free from dust?	
4	Are areas of site with regular traffic movement have hard surface?	
5	Are the haul roads watered regularly to avoid dust disturbance?	
6	Are unpaved areas watered regularly to avoid dust disturbance?	
7	Does the water spraying truck work effectively?	
8	Is working area of excavation or earth moving operation sprayed with	
	water to maintain the entire surface wet?	1
9	Are the dusty materials sprayed with water during transfer operation?	
10	Do the site vehicles use the wheel wash at the site exits?	
11	Does the wheel wash work effectively?	₩ Ü U/U Ü U
12	Are hoarding not less than 2.4m tall provided beside roads or areas with	
	public access and in good condition?	/
13	Are incombustible screens not less than 1.8m tall provided in the public area	
	affected by exhaust fumes or smoke emission?	/
14	is dark smoke emission avoided?	
15	Are dusty materials properly covered?	
16	Are the bags of cement (more than 20) covered entirely?	
17	Are the excavated materials dropped at minimum practical height?	
18	Are conveyor belts fitted with windboards, transfer points and hoppers enclosed?	
19	Are bulk fine grained materials stored in closed siles fitted with high level alarm indicator?	
20	Are air vents on cements silos fitted with fabric filters?	
21	Are weigh hoppers vented to suitable filters?	
22	Are there enclosures around the main dust-generating activities?	
23	Are completed earthworks sealed and hydroseeded and planted as soon	
	as practicable?	*
24	Is open burning avoided?	
25	Are vehicles and equipment switched off while not in use?	
26	Are all trucks loaded to a level within the side and tall boards?	
27	Are materials transported by dump trucks with mechanical cover?	
28	Do the truck covers work effectively?	
29	Does ULSD used in the construction activities?	
30	Observable dust sources	☐ Vehicle/equipment movements
	Loading/unloading of materials	Stoners <u>Earthumentes</u>
No.	Part IV Construction Noise Impact	N/A N/O Yes, Rdr Obs N/C Photos / Remarks
1a	Are the construction works scheduled to minimise airborne noise nulsance?	
1b	groundborne noise nuisance?	
2a	Are the works or equipment sited to minimise airbrone noise nuisance?	
2b	groundbrone noise nuisance?	
3	Are all plant and equipment well maintained and in good operating condition?	
4	Are idling equipment throttled down or turned off?	
5	Are powered mechanical equipment covered or shielded by appropriate acoustic materials?	
6	Are silenced equipment used where practicable?	
7	Are noise enclosure, noise barrier, or portable noise barrier used	
•	where necessary?	
8	Do hand-held breakers (larger than or equal to 10kg) have valid noise labels?	
9	Do Quality Powered Mechanical Equipments (QPME) have valid noise labels?	
10	Do air compressors have valid noise labels?	
11	Do compressors operate with doors closed?	
12	Are Construction Noise Permits available for inspection?	
13	Major noise source(s)	Construction activities inside of site
	☐ Construction activities outside of site	Others



The Development of AFCD Animal Management and Animal Welfare Building Complex in Kal Tak Development Independent Environmental Checker Environmental Site Inspection Checklist

No.	Part V Waste Ma	nagement and Contamination	N/A N/0	Yes	Rdr	Obs	N/C	Photos / Remarks
1a	General refuse: Is ac	cumulation avoided?	E 8	ω.				
1b	is rec		Ω, Ω					
1c	is the							
2a		s there avoidance or minimisation of construction	□ □	Y				
		vaste generation (e.g. use of steel formwork)?		/	,			
2b		s there on site segregation as far as practicable		S7				
		or reuse and recycle?						
2c		s construction waste reused where practicable?	N/LI			Ц	Ц	
2d		s construction waste disposed at public dumping trea or public landfill?	ЦЦ	الإذا		Ц		-
2e		Are trip tickets available for inspection?	ם ם	<u>u/</u>	, 🗆	Ш		
3a	Chemical waste/waste of		2 0	- II	<u> </u>		ä	
3b		Is chemical waste/waste oil stored properly?			Ø	_	ö	Rd, 1
3с		is there proper disposal?			õ	ă	$\overline{\Box}$	
3d		Are trip tickets available for inspection?	Ē 🗆					
Зе		is chemical waste license available for		12/				
		inspection?		,	/			
4a		excavated material appear uncontaminated (adour)?		E)				
4b	İfc	ontamination is suspected, is appropriate procedure owed?	Z 🗆	۵	. 🗆			-
4c	Are	trip tickets available for inspection?		Ŋ/				
5a	Chemical/fuel: Is che	mical/fuel stored in bunded area?	□ / √ □					
5b	ls bur	d capacity adequate (>110% of the largest tank)?	rž/u	Π,				
5c		orage areas provided with locks and located on		12/				
		d area?	гп	с /	_			
6		Are relevant license/permit for disposal of construction waste or excavated materials available for inspection?		u,	, 🗆			
7		her objectionable matters in water of nearby drains		ø/				
No.	or sewer avoided? Part VII Others	permits/licences/registrations displayed	N/A N/O	_				
	on the Project site at all	vehicular site entrances/exits or at public information all times?		Ψ.	J	_	_	

Part Vili Follow-up for the Pervious Site Audit

The Development of AFCD Animal Management and Animal Welfare Building Complex in Kai Tak Development Independent Environmental Checker Environmental Site Inspection Checklist

Part IX

Remarks

Rd-I: Chevical shoold be stored at its designated location.

Part X

Signatures