Issue Date : April 2025

Project No. : 2249

PROJECT PROFILE

FOR

QUARANTINE SERVICE FOR SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS (SPCA) JOCKEY CLUB CENTENNIAL CENTRE (TSING YI CENTRE) AT CHEUNG FAI ROAD, TSING YI

Prepared by

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1. Basic Information

1.1. Project Title

1.1.1. Quarantine Service for Society for the Prevention of Cruelty to Animals (SPCA) Jockey Club Centennial Centre (Tsing Yi Centre) At Cheung Fai Road, Tsing Yi.

1.2. Purpose and Nature of the Project

1.2.1. Imported animals are required to be quarantined in accordance with the *Rabies Ordinance Cap. 421* and *Public Health (Animals and Birds) Ordinance Cap. 139* to prevent the introduction of infectious animal diseases into Hong Kong. Currently, the Agriculture, Fisheries and Conservation Department (AFCD) faces a significant backlog for its animal quarantine services.

1.2.2. SPCA Jockey Club Centennial Centre (Tsing Yi Centre) (hereafter named as the "Existing Building Complex") has been in operation since December 2023. It offers a range of services, including animal adoption, pet boarding, pet grooming, behavioural training and retail services, as well as facilities such as veterinary clinic and immersive classroom. The Existing Building Complex operates daily from 8:45 a.m. to 6:00 p.m.. SPCA has proposed converting the existing boarding rooms on the second floor into animal quarantine rooms for cats and dogs as shown in ***Figure 1-1*** (hereafter named as the "Proposed Plan"). Both services share similar operational practices with animal boarding room

1.2.3. There are one cat boarding room and three dog boarding rooms at second floor of the Existing Building Complex which will be converted in the Proposed Plan. ***Table 1-1*** provides the details on the number of rooms and capacity to accommodate cats and dogs in both existing boarding rooms and the Proposed Plan on the second floor of the Existing Building Complex.

Table 1-1 Number of Rooms and Capacity to Accommodate Cats And Dogs in Both Existing Boarding Rooms and the Proposed Plan

Type of Animal	Existing Boarding Rooms		Proposed Plan	
	Number of rooms	Number of cats/dogs that can be accommodated in each room	Number of rooms	Number of cats/dogs that can be accommodated in each room
Cat	1	23	1	19
Dog	3	18	3	15
		29		22
		8		7

1.2.4. The Proposed Plan will operate under the Quarantine Centre Licence issued by AFCD and require to comply the *Code of Standards for Licensed Quarantine Centres* ("the Code of Standards") published by the AFCD under the *Rabies Regulation (Cap. 421A)*. The Code of Standards specify the design and management practice necessary for the proper management of licensed quarantine centre. Whilst the current design and management practice at the existing animal boarding rooms have already met most of the requirements of the Code of Standards, the Proposed Plan will require additional security measures as detailed in **Section 1.4.2** and health risk control measures as detailed in **Section 6.8.2.**

1.2.5. Upon arrival in Hong Kong, the animals will be checked and inspected by AFCD at the border along with their accompanying documentation. After the inspection, the AFCD will be escorted the animals directly to the Proposed Plan where they will remain until the end of the quarantine period. At the end of the quarantine period, the animals will be released to their owner after final checking and clearance by the Delegated Veterinary Surgeon (DVET). Additionally, AFCD conducts routine inspections on a monthly basis to the Proposed Plan to ensure the operation of the Proposed Plan fully implement the Code of Standards.

1.3. Name of Project Proponent

1.3.1. The Project Proponent for the Proposed Plan is the SPCA Hong Kong.

1.4. Location and Scale of the Project

1.4.1. The Proposed Plan will be situated on the second floor of Existing Building Complex, covering an area of approximately 635m^2. The Existing Building Complex is bounded by Cheung Fai Road to the east, Tsing Yi Road to the southwest and Kwai Tsing Road to the northwest. The Existing Building Complex falls within an area zoned "Government, Institution or Community" ("G/IC") on the Approved Tsing Yi Outline Zoning Plan No. S/TY/32. ***Figure 1-1*** shows the location of Proposed Plan and its environs.

1.4.2. The Proposed Plan does not involve any alteration and addition works, or construction works at the Existing Building Complex. Only minor safety enhancement works will be carried out for the Proposed Plan, including (i) lock installation on the animal cages, and (ii) key card access system installation for the quarantine room doors. These minor enhancement works are conducted in accordance with the Code of Standards to ensure all gates and doors necessary for the security of animals must be fitted with devices that make the premises escape-proof for animals.

1.5. History of the Site

1.5.1. The Existing Building Complex was used for temporary housing in 1991. Later, it was served as the site office during the construction phase of the Tsing Yi Road. Subsequently, the site was occupied as a carpark. The construction of Existing Building Complex was commenced in 2021, and it has been in operation since 2023.

1.6. Number and Types of Designated Projects to be Covered by the Project Profile

1.6.1. The Proposed Plan is a designated project under Item N.2, Part I of Schedule 2 of the EIA Ordinance (EIAO) (Cap. 499), *"A quarantine station, or quarantine lairage, for animals",* which requires an environmental permit for its operation. This Project Profile is prepared for application for permission to apply directly for an environmental permit for the Project under Section 5(11) of the EIAO.

1.7. Contact Person

1.7.1. Name and telephone number of contact person are shown as follows:

Miss Gail TONG	SPCA (HK) Tel: 3144 5099 Email: gail.tong@spca.org.hk

2. Outline of Planning and Implementation Programme

2.1. Responsible Parties

2.1.1. SPCA is the Project Proponent and is responsible for the operation of the Proposed Plan.

2.1.2. SPCA has employed Allied Environmental Consultants Limited (AEC) as the Environmental Consultant to prepare a Project Profile for this Proposed Plan.

2.2. Implementation Programme

2.2.1. The Proposed Plan will commence in Q2 2025.

2.3. Interactions with Concurrent Projects

2.3.1. As mentioned in ***Section 1.4.2***, the Proposed Plan does not involve any alteration and addition works, or construction works at the Existing Building Complex. Only minor safety enhancement works will be carried out for the Proposed Plan which is not expected to generate any adverse cumulative impacts. Therefore, only cumulative impact associated with the Proposed Plan during operational phase will be assessed.

2.3.2. The concurrent construction works in the vicinity are listed in ***Table 2-1*** below while ***Figure 2-1*** shows the location of these concurrent construction works.

Table 2-1 Summary of Concurrent Projects

Concurrent Projects	(Tentative) Date of Construction Programme	Interaction with the Proposed Plan
191GK – Community Hall, General Outpatient Clinic and Maternal and Child Health Centre at Ching Hong Road, Tsing Yi	Q4 2020 – 2029	The location of this project is not directly adjacent to the Proposed Plan as shown in ***Figure 2-1***. As the Proposed Plan does not involve any alteration and addition works, or construction works at the Existing Building Complex, adverse cumulative impact due to the construction phase of this project is not anticipated. Once this project commences operation, it would become a sensitive receiver for the Proposed Plan. With compliance to the relevant ordinances, regulations and guidelines, the adverse cumulative impacts associated with the operation of the Proposed Plan is not anticipated.
Public Housing Development at Ching Hong Road North (CHRN) Phase 3 and Phase 4	2024 – Q3 2031	The location of this project is not directly adjacent to the Proposed Plan as shown in ***Figure 2-1***. As the Proposed Plan does not involve any alteration and addition works, or construction works at the Existing Building Complex, adverse cumulative impact due to the construction phase of this project is not anticipated. Once this project commences operation, it would become a sensitive receiver for the Proposed Plan. With compliance to the relevant ordinances, regulations and guidelines, the adverse cumulative impacts associated with the operation of the Proposed Plan is not anticipated.

3. Major Elements of the Surrounding Environment

3.1. Air Quality

3.1.1. Pollutants in the Atmosphere and their Transport over Hongkong (PATH v3.0) modelling results for the nearest year to the year of operation commencement (i.e. Year 2025) were referred. The PATH v3.0 model is a regional air quality model developed by EPD to simulate air quality over the Pearl River Delta Region, including Hong Kong. The model covers the whole Hong Kong area in numbers of grids with spacing of 1km x 1km for each of the grid. A study area of 500m shown in ***Figure 3-1*** from the boundary of Proposed Plan covers 4 grids (33,37), (34,37), (33,36) and (34,36) in the PATH v3.0 model. ***Table 3-1*** represents the details of the PATH v3.0 results of the 4 grids at Year 2025, indicating that future PATH background concentrations are at levels below the respective Air Quality Objectives (AQOs) in an area with a radius of 500m from the Project site.

Table 3-1 Background Air Pollutants in Year 2025 Extracted from the PATH Model (PATH v3.0)

Pollutant	Averaging Time	AQOs to be implemented in 2025 [1]	Data Summary	PATHv3.0 Grid in Year 2025[2]			
				33,37	34,37	33,36	34,36
FSP	24-hr	37.5 (18)	19th Max	32	32	32	32
			No. of Exceedance(s)	0	0	0	0
	Annual	15	-	13	14	13	14
RSP	24-hr	75 (9)	10th Max	57	55	56	56
			No. of Exceedance(s)	0	0	0	0
	Annual	30	-	21	21	21	22
SO_2	10-min	500 (3)	4th Max	24	21	26	22
			No. of Exceedance(s)	0	0	0	0
	24-hr	40 (3)	4th Max	7	7	8	7
			No. of Exceedance(s)	0	0	0	0
NO_2	1-hr	200 (18)	19th Max	101	119	101	123
			No. of Exceedance(s)	0	0	0	0
	24-hr	120 (9)	10th Max	46	54	49	60
			No. of Exceedance(s)	0	0	0	0
	Annual	40	-	26	32	29	37
O_3	8-hr	160 (9)	10th Max	**178**	**172**	**175**	**167**

Pollutant	Averaging Time	AQOs to be implemented in 2025 [1]	Data Summary	PATHv3.0 Grid in Year 2025[2]			
				33,37	34,37	33,36	34,36
			No. of Exceedance	**20**	**15**	**17**	**13**
CO	1-hr	30,000	Max	587	596	584	603
	8-hr	10,000	Max	565	573	564	579
	24-hr	4,000	Max	528	540	525	545

Note:

[1] Values in ( ) indicate number of exceedance allowed under the AQO.

[2] Bolded and underlined values represent exceedances of the AQOs

3.1.2. As shown in ***Table 3-1***, the background air pollutants at PATH Grid (33,37), (34,37), (33,36) and (34,36) in 2025 are well below the AQOs criteria to be implemented in 2025, except for exceedance of the daily maximum 8-hour average O_3 criterion. Ozone is not directly emitted from pollution sources but formed by photochemical reactions in the presence of sunlight. Therefore, ozone is not a pollutant to be assessed in the following discussion.

3.1.3. Study area for AQIA has been identified by 500 m from the boundary of the Proposed Plan. Air Sensitive Receivers ("ASRs") within the 500 m assessment area are identified in accordance with Annex 1 and Annex 12 of the TM-EIAO.

3.1.4. The nearest ASRs from various directions are selected as the representative ASR as presented in ***Table 3-2***. ***Figure 3-1*** illustrates the study area and the locations of the representative ASRs. In accordance to the Annex 12 of TM-EIAO, the Proposed Plan is not considered as ASRs during operational phase. The boarding reception of the Proposed Plan is for transient uses in nature, only for check-in for the arrival of quarantined animals.

Table 3-2 List of Representative Air Sensitive Receivers

ASR ID	ASR	Use	Shortest Horizontal Distance to Proposed Plan Boundary (m)
ASR1	Customs and Excise Department Tsing Yi Station	Office	158
ASR2	Ching Lan House	Residential	142
ASR3	Ching Tao House	Residential	154
ASR4	Tsing Yi Sewage Treatment Plant	Office	138
ASR5	Hutchison Telecom Tower	Office	256
ASR6	Cheung Fai Road Promenade	Open space	200

3.2. Noise

3.2.1. Noise Sensitive Receivers ("NSRs") at the surroundings of the location of Proposed Plan are identified in accordance with Annex 13 of the TM-EIAO.

3.2.2. NSRs are identified as listed in the ***Table 3-3*** to the west of the location of Proposed Plan. ***Figure 3-2*** illustrates the location of representative NSRs. The Existing Building Complex is surrounded by high traffic District Distributor (Kwai Tsing Rd & Tsing Yi South Bridge) with Annual Average Daily Traffic (AADT) of about 38,620 according to Annual Traffic Census (ATC) 2023 published by the Transport Department to the north and west, which is regarded as an Influencing Factor (IF) according to IND-TM.

Table 3-3 List of Representative Noise Sensitive Receivers

NSR ID	NSR	Use	Shortest Horizontal Distance to Proposed Plan Boundary (m)
NSR1	Ching Lan House	Residential	141
NSR2	Ching Tao House	Residential	154

3.3. Water Quality

3.3.1. With reference to the approved EIA report for Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel (AEIAR-156/2010), representative water sensitive receiver ("WSR") identified within 500m boundary from the Proposed Plan as summarized in ***Table 3-4*** and are shown in ***Figure 3-3***.

Table 3-4 List of Representative Water Sensitive Receivers

WSR ID	WSR	Shortest Horizontal Distance to Proposed Plan Boundary (m)
WSR 1	Flushing Water Intake for Tsing Yi Seawater Pumping Station	164

4. Possible Impact during Construction Phase

4.1.1. The Existing Building Complex has started operation since December 2023. The Proposed Plan does not involve any alteration and addition works, or construction works at the Existing Building Complex. Only minor safety enhancement works as stated in **Section 1.4.2** will be carried out for the Proposed Plan. It is not anticipated to result in any adverse environmental impacts due to the minor safety enhancement works.

5. Possible Impact during Operation Phase

5.1. Air Quality

Industrial Emission from the Proposed Plan

5.1.1. No criteria air pollutant emissions will be generated by the operation of the Proposed Plan and no chimney will be installed for the Proposed Plan. Therefore, it is anticipated no adverse impact from industrial emission related to the Proposed Plan during operation phase.

5.2. Odour

Existing Building Complex

5.2.1. The Existing Building Complex involves animal staying, including dogs, cats and small animals, thus odour from the animal keeping areas, i.e., boarding rooms might be a concern. Relevant report had been reviewed to identify the major odour source. With reference to the Project Profile (PP-569/2018) prepared for application for permission to apply directly for environmental permit for the Development of AFCD Animal Management and Animal Welfare Building Complex in Kai Tak Development ("AMC"), the primary odour source of animal is mainly from animal wastes and odour from dogs is dominant over those of cats and other small animals.

5.2.2. Site visit at the Existing Building Complex was conducted on 26 November 2024. No noticeable smell was detected at the keeping areas for cats and small animals. This could be due to the relatively small amount of urine and manure. The less smell is also associated with their behaviour, which they do not roll in their own urine and manure to mask their own scent and thus odour would not be accumulated in their bodies and hair. Meanwhile, the odour from dog keeping areas is noticeable due to the relatively larger amount of excrement and protection mechanism of smell masking. Therefore, the findings are corresponded to the findings from the Project Profile (PP-569/2018) that is the odour from dogs is dominant over those of cats and other small animals.

The Proposed Plan

5.2.3. Similar to Existing Building Complex, the major odour source in the Proposed Plan will be from the animal waste generated at the animal keeping areas. The Proposed Plan will convert the existing animal boarding rooms which can accommodate a total of 23 cats and 55 dogs into animal quarantine rooms. The capacity of these quarantine rooms will be decreased to 19 cats and 44 dogs, thereby reducing the potential odour impact from the Proposed Plan.

5.2.4. Outdoor activity with the animals can be carried out at semi-opened outdoor areas which could cause odour emission from animal waste generation. The outdoor activity is limited to office hours and requires prior appointment. Each play session is no more than one hour in general. Each time only one dog is allowed to stay at semi-opened outdoor area. To manage potential odour sources, all excrement or waste at semi-opened outdoor area will be promptly removed before the next session. Additionally, semi-opened outdoor area will be cleaned twice daily, minimizing the risk of odour accumulation. Hence, the odour impact from semi-opened outdoor areas is expected to be short-term and easily dispersed.

5.2.5. The animals are mostly kept inside the air-conditioned enclosed keeping areas equipped with mechanical ventilation and air conditioning (MVAC) system with separate exhaust outlet. The locations of the exhaust outlets are detailed in **Appendix 5-1**. The odour emission could be generated from the exhaust outlet of the animal keeping areas during their stay.

Odour Emissions from Hong Kong Centre

5.2.6. A site survey was conducted at the SPCA Hong Kong Centre – Headquarters in Wan Chai ("Hong Kong Centre") on 28 February 2025. This centre offers similar animal services, including adoption, behaviour training, boarding, grooming, and hospitalization. It also follows comparable operating procedures, such as cleaning routine and frequency as well as waste handling. The Hong Kong Centre operates from 8:45 a.m. to 6:00 p.m., aligning with the Existing Building Complex's schedule. The primary odour source at the Hong Kong Centre is animal waste which will be generated from adoption, boarding rooms and recovery rooms, similar to the Existing Building Complex. Hong Kong Centre relies on air conditioning with well-mixed conditions which is comparable with the MVAC system with separate exhaust outlet adopted at the Existing Building Complex.

5.2.7. Site survey was conducted at all the locations with potential odour sources within the Hong Kong Centre including the previous sampling location carried out for the Project Profile (PP-569/2018). During the site survey, odour was observed at the dog boarding area, which was operating at approximately 88% of its maximum capacity. This observation is consistent with the measurement results from the Project Profile (PP-569/2018).

5.2.8. Therefore, the Hong Kong Centre can serve as a reliable reference for verifying major odour sources in the Existing Building Complex. The odour measurement data from Hong Kong Centre is utilized for the cumulative odour impact assessment in the sections below.

Cumulative Odour Impact

5.2.9. There are two potential odour sources identified within 500m assessment area, i.e., Tsing Yi Preliminary Treatment Works ("TYPTW") and Existing Building Complex as shown in ***Figure 3-1***.

5.2.10. For TYPTW, enquiry on the complaint record was sent to EPD on 24 February 2025 and it is noted that no air complaint record related to Tsing Yi Preliminary Treatment Works have been received by EPD since 2023. According to Legislative Council Paper No. CB(1) 1945/08-09(03), measures have been implemented by Drainage Services Department ("DSD") to control odour in sewage treatment works, including:

a) Covering up of channels, chambers and tanks which are likely to emit odour; and

b) Installing deodourisation units, i.e. activated carbon system, chemical scrubbers and biofilters at appropriate locations to clean up the collected foul gases from odour sources in the plants.

5.2.11. According to the Legislative Council Paper No. CB(1) 1945/08-09(03), DSD monitors closely their performance and provides proper maintenance to ensure all odour control systems are in proper working condition, like timely replacement of odour absorption media such as activated carbon in the deodorisers. Therefore, it is anticipated that no adverse odour impact related to TYPTW.

5.2.12. The cumulative odour impacts caused by the Existing Building Complex (including Proposed Plan) and TYTPW have been assessed by suitable air dispersion model. In accordance with Annex 4 of the TM-EIAO, a limit of 5 odour units (OU/m^3) based on an averaging time of 5 seconds should not be exceeded at any receivers. Odour emission rates for each source are summarized in **Appendix 5-2**. The results showed that odour concentration at all ASRs have met the odour criterion with a maximum odour concentration of 0.25 OU/m^3 which is well below the odour criterion.

5.2.13. The SPCA confirmed that the Hong Kong Centre consistently operates at full capacity without odour complaints. Enquiry on the complaint record was also sent to Environmental Protection Department ("EPD") on 27 February 2025. No complaint record related to the air quality issues of the Hong Kong Centre and Existing Building Complex is received by EPD. Despite the exhaust outlet of Hong Kong Centre is located at 13m from the nearest ASRs, i.e. GREEN@WAN CHAI, the absence of odour complaints suggests that odour emissions are effectively managed. Therefore, it is expected that the Proposed Plan, even at full capacity, would have a similar outcome with no significant odour impact.

5.2.14. Hence, due to no complaint record in the Existing Building Complex and the satisfactory odour assessment result, no adverse cumulative odour impact is expected.

5.3. Animal Activity Noise

5.3.1. The areas from where dog barking will mostly arise in the quarantine service, will be located within enclosed rooms, served by independent MVAC system and not relying on opened windows for ventilation, in order to well control and limit animal activities noise.

5.3.2. Limited activity in semi-opened outdoor area would be allowed for the quarantine service. Activity in the semi-opened outdoor area is limited and short-term. The operation period will be limited to office hours only, and no activity would be allowed during night-time. As mentioned in **Section 3.2.2**, since IF (Kwai Tsing Rd & Tsing Yi South Bridge) is located between NSRs and the location of Proposed Plan, the animal noise generated from the limited outdoor activity is masked by the high level of traffic noise from the IF. Therefore, no adverse animal activity noise impact due to the Proposed Plan is anticipated to the surroundings.

5.4. Fixed Plant Noise

5.4.1. Whilst MVAC system, including Variable Refrigerant Volumes (VRVs) would be provided for the quarantine service, such system is already in place, and no additional fixed plant would be provided due to the Proposed Plan. No fixed plant source is identified at the location of Proposed Plan.

5.4.2. Currently, the outdoor units of VRVs located at the roof top are identified as the fixed plant noise source. As mentioned in **Section 3.2.2**, since IF (Kwai Tsing Rd & Tsing Yi South Bridge) is located between NSRs and the identified fixed plant, the noise generated from the fixed plants is masked by the high level of traffic noise from the IF. Therefore, adverse fixed plant noise impact associated with the operation phase to the surroundings is not anticipated before the Proposed Plan.

5.4.3. As there are no changes on the fixed plant noise source due to the Proposed Plan, it is expected that the adverse fixed plant noise impact associated with the operation phase to the surroundings is not anticipated after the Proposed Plan.

5.5. Water Quality

5.5.1. The key water quality impact associated with the Proposed Plan would be sewerage generation from cleaning activities. As advised by the SPCA, daily cleaning practices during operation of the Existing Building Complex will include both the removal of animal waste and room cleaning. The animal keeping area will be cleaned at least twice a day, and throughout the day as required. The Proposed Plan only converts the existing animal boarding rooms to animal quarantine rooms. It is not anticipated to result in any additional sewage generation due to the floor area required cleaning, as well as the frequency and routine of cleaning will remain the same as the existing boarding rooms. The existing peak flow will not increase, and the Proposed Plan is not anticipated to give rise to any adverse sewerage impact on the public sewer.

5.6. Waste Management

Existing Building Complex

5.6.1. Based on observations from the site visit on 26 November 2024 and advice from the SPCA, the major types of waste generated from the Existing Building Complex includes:

- General refuse generated in daily operations of SPCA and visitors from quarantine centre, adoption, education centre, etc.;
- Clinical wastes associated with animal welfare related services such as used or contaminated sharps, laboratory waste, animal tissue, dressings, etc; and
- Special wastes such as animal carcasses.

5.6.2. The current waste management practices of the Existing Building Complex are as follows:

- General refuse generated will be collected by cleaning contractor and disposed at government waste disposal facilities such as designated landfill on regular basis. The recyclable materials will also be collected by reliable waste recycling agents on a regular basis.
- Clinical wastes generated will be collected by licensed waste collectors and disposed of at Chemical Waste Treatment Facility (CWTF) at Tsing Yi in accordance with *Waste Disposal Ordinance (Cap. 354)*.
- Special waste will also be collected by licensed waste collector to be disposed of at landfills which is controlled by EPD through an Admission Ticket System in accordance with the *Waste Disposal Ordinance (Cap. 354).*

The Proposed Plan

5.6.3. As advised by SPCA, general refuse and clinical waste will be generated from the daily operations of Proposed Plan. Since the Proposed Plan only converts the existing animal boarding rooms into animal quarantine rooms, and the number of cats and dogs accommodated will decrease, the quantity of general refuse is expected to remain unchanged. Due to the restriction requiring animals to stay within the Proposed Plan during the quarantine period in compliance with the Code of Standards, veterinary examinations or treatments shall be conducted on-site. Clinical waste may be generated from the examination or treatment, and its quantity is not expected to be increased as examinations or treatments will only be carried out when necessary. Any clinical waste produced will be removed from the Proposed Plan and disposed of at a temporary storage area in the Existing Building Complex.

5.6.4. The current waste handling, collection, and disposal procedures for general refuse and clinical waste as mentioned in ***Section 5.6.2*** will continue to be followed by the Proposed Plan. Therefore, no adverse waste impact is envisaged.

5.7. Health Risk Management

5.7.1. Animals kept in or visiting the Existing Building Complex including dogs and cats may be diseased and require treatment. Many infectious diseases are possible to transmit from animals to humans, including bacterial, viral and fungal infections, as well as parasite infestations. The main routes of transmission are listed below:

- Close contact and droplet transmission;
- Exposure to excreta;
- Bite by insects such as fleas, ticks and flies; and
- Scratch injury and bites by animals.

5.7.2. However, the operation of the Existing Building Complex follows *SPCA Biosecurity Protocol* and *SPCA Health and Safety Protocol* to minimize and control any risks to local environment. The operation of the Proposed Plan will also adhere to the same practices in compliance with the Code of Standards. Additionally, the Proposed Plan will also ensure clear segregation of quarantined and non-quarantined animals without cross traffic and is already equipped with MVAC system with separate exhaust outlets. Hence, health risk issue associated with the Proposed Plan is not anticipated.

5.7.3. Similar to Hong Kong Centre, a clinical laboratory is located at the 4/F of the Existing Building Complex and it provides basic diagnostic testing services for animals as commonly found in veterinary clinics on an as needed basis. The operation of the laboratory strictly follows the *SPCA Biosecurity Protocol* and *SPCA Health and Safety Protocol* to ensure any risks to local environment are minimised and controlled. As advised by SPCA, it is also noted that no gaseous nor odorous emission from the laboratory will be generated, and only clinical waste will be generated.

5.7.4. In addition, the animals imported from different countries/places are subject to respective quarantine period according to AFCD's Special Permit which is in accordance with the *Public Health (Animals and Birds) Ordinance (Cap. 139)* and the *Rabies Ordinance (Cap. 421)*. The imported animals that require to be quarantined shall meet the following requirements as specified in the Special Permit:

- Microchip implantation
  The dog/cat must be implanted with a microchip which can be read with an AVID or ISO scanner prior to rabies vaccination and blood sampling.
- Anti-rabies vaccination
  The dog/cat must be vaccinated against rabies using either an inactivated or recombinant anti-rabies vaccine not less than 30 days and not more than 1 year prior to export.
- Vaccination against other diseases
  The dog/cat must have full vaccination against canine distemper, infectious canine hepatitis and canine parvovirus (for dogs) and against feline panleucopaenia and feline respiratory disease complex (for cats) not less than 14 days and not more than 1 year prior to export.
- Obtain satisfactory Rabies Neutralising Antibody Titer Test (RNATT) result
  The dog/cat must undergo a RNATT on a blood sample collected not less than 90 days and not more than 1 year prior to export.

5.7.5. With implementation of the above measures for animals before entering the Proposed Plan, and regular monitoring and inspection by veterinary surgeon, the health risk impact due to quarantine service is not anticipated.

6. Environmental Protection Measures to Be Incorporated in The Design and Any Further Environmental Implications

6.1.1. The Proposed Plan does not involve any alteration and addition works, or construction works at the Existing Building Complex. Only minor safety enhancement works as stated in ***Section 1.4.2*** will be carried out for the Proposed Plan. It is not anticipated to result in any environmental impacts due to the minor safety enhancement works. Only environmental protection measures during operational phase will be discussed in the below sections.

6.2. Air Quality

Industrial Emission from the Proposed Plan

6.2.1. During the operation of the Proposed Plan, no criteria air pollutant emissions will be generated, and no chimney will be installed. Potential air quality impacts from industrial emissions associated with the Proposed Plan are not anticipated. Therefore, no mitigation measure is required.

6.3. Odour

6.3.1. The cumulative odour impact assessment has confirmed that predicted odour concentrations at all nearby ASRs meet the established odour criterion. Furthermore, the following control measures will be implemented to reduce any potential odour emissions.

- Daily cleaning practices during operation of the Existing Building Complex will include both the removal of animal waste and room cleaning. The animal keeping area will be cleaned at least twice a day, and throughout the day as required, such that any potential odour impact on the nearby ASRs will be avoided or minimised, if any.

- The semi-opened outdoor area will be limited for use during office hours only, and no activity will be allowed during nighttime. Each play session is no more than one hour in general. Each time only one dog is allowed to stay in the semi-opened outdoor area and always accompanied by staff/owner who will provide immediate cleaning to avoid accumulation of odour emission sources.

6.4. Animal Activity Noise

6.4.1. As adverse animal noise impact is not anticipated to the surrounding environment, no mitigation measure is required during operation phase.

6.5. Fixed Plant Noise

6.5.1. As adverse fixed plant noise impact is not anticipated to the surrounding environment, no mitigation measure is required during operation phase.

6.6. Water Quality

6.6.1. As adverse sewerage impact is not anticipated to the public sewer system, no mitigation measure is needed during the operation phase.

6.7. Waste Management

6.7.1. As discussed in ***Section 5.6***, general refuse will be generated from the daily operations of Proposed Plan, while clinical waste will only be produced when examination or treatment for the animal in quarantine is required. Any clinical waste produced will be removed from the Proposed Plan and disposed of at a temporary storage area in the Existing Building Complex.

6.7.2. The general refuse generated will be stored in covered refuse containers and will be removed regularly to minimize odour, pest and litter impacts. Additionally, the waste generated will also be collected by cleaning contractor and disposed at government waste disposal facilities such as designated landfill.

6.7.3. To promote recycling of waste paper, aluminium cans and plastic bottles, the recycling bins (such as those available from EPD) will be clearly labelled and placed at convenient locations. The recyclable materials will then be collected by reliable waste recycling agents on a regular basis.

6.7.4. With reference to the *Clinical Waste Control Scheme* set out in the *Waste Disposal (Clinical Waste) (General) Regulation (Cap. 345O)*, all clinical waste generated from the Proposed Plan will be collected by licensed clinical waste collectors. In accordance with *Code of Practice for the Management of Clinical Waste – Clinical Waste Producers and Waste Collector under Section 35 of the Waste Disposal Ordinance (Cap. 354),* proper handling of clinical waste within the producing premises, including segregation, packaging, labelling, storage, collection, transportation and disposal of clinical waste is required before removal from the Proposed Plan. A licensed clinical waste collector will be employed to dispose of these wastes at CWTF Tsing Yi.

6.7.5. With adoption of operating procedures for waste segregation and handling for these wastes, adverse waste management implication from waste is not anticipated during operation phase of the Proposed Plan.

6.8. Health Risk Management

6.8.1. The operation of the Existing Building Complex strictly adheres to the *SPCA Biosecurity Disease Protocol* and *SPCA Health and Safety Protocol*, ensuring that any health risks to local environment are minimised and controlled in accordance with international standards and practices.

6.8.2. With the commencement of the Proposed Plan, potential health risk will be further controlled in accordance with the Code of Standards. The control measures include:

- Secure enclosures, proper ventilation, sufficient lighting, and sanitation measures must be provided.
- Isolation rooms must be available for suspected rabies cases.
- Contact between quarantined and non-animal in quarantines is prohibited.
- Strict hygiene, pest control, and disinfection procedures must be followed.
- Detailed records of admissions of animal, health status and visitor logs must be maintained and available for AFCD's inspections.
- Pre-release veterinary examination must be carried out for the animal that has completed its quarantine and before it is released to its owner.

6.8.3. Besides, Proposed Plan has already equipped with MVAC system which has separate exhaust outlets from the rest of the Existing Building Complex (i.e., offices, education facilities, meeting rooms, laboratory), to avoid cross-contamination of zoonotic diseases among animals and humans. Hence, health risk issue associated with the operation of the Proposed Plan is not anticipated.

6.9. Possible Severity, Distribution and Duration of Environmental Effects During Operation Phase and Any Further Implication

6.9.1. The operation of the Proposed Plan will follow the required environmental protection measures in accordance with relevant ordinances, regulations and standard. Hence, no further environmental impact is anticipated.

6.9.2. The AMC and Hong Kong Centre have the similar project nature with the Proposed Plan. Currently no implication associated with the operation of both centres to the surrounding environment is reported. No complaint record related to the air quality and odour issues have been received by EPD.

7. Use of Previously Approved EIA Report

7.1.1. The approved EIA reports/ direct applications for an environmental permit of projects that are of relevance to the Proposed Plan are listed in ***Table 7-1*** below.

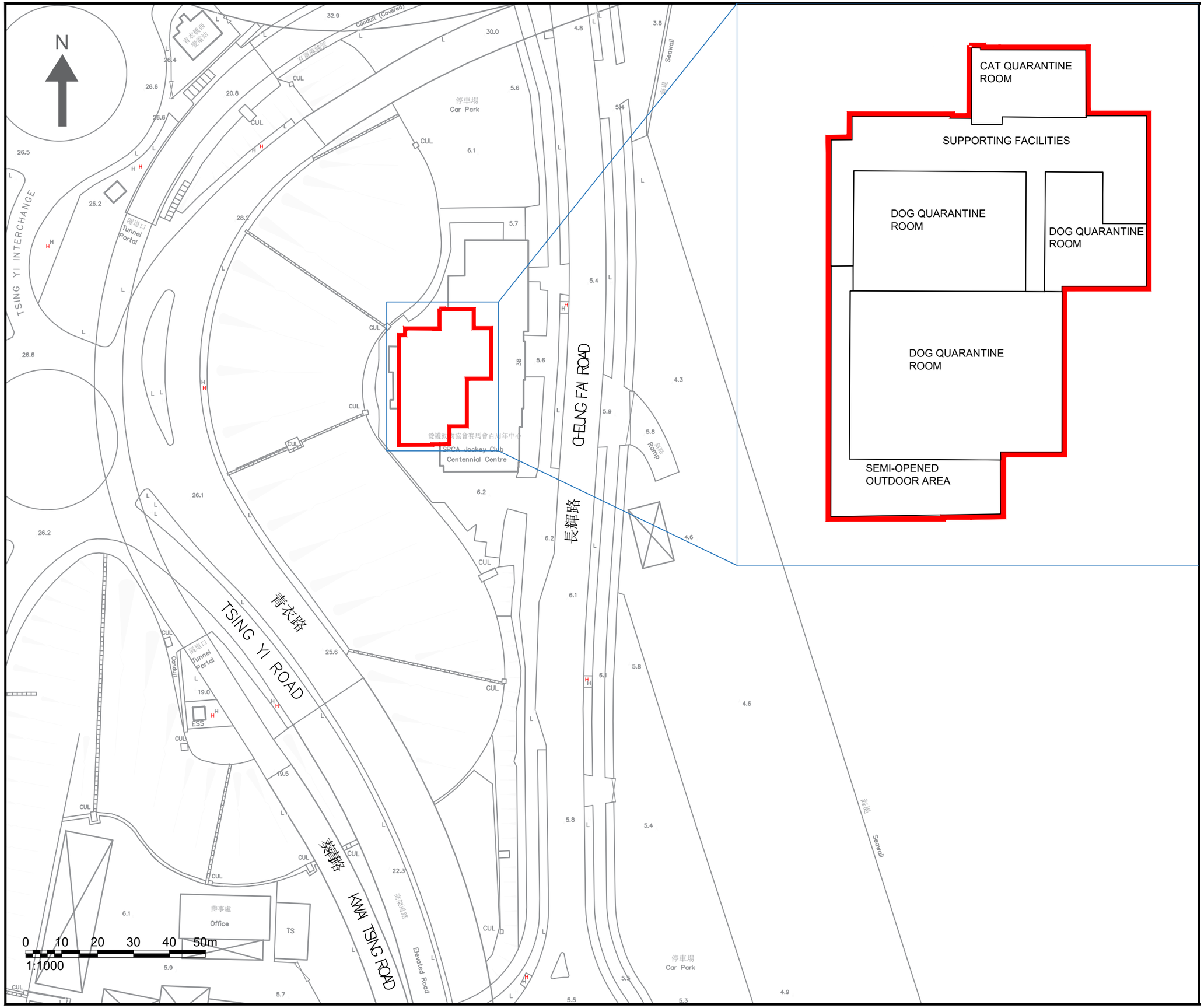
Table 7-1 Previously Approved EIA Reports/ Direct Applications for an Environmental Permit Relevant to the Proposed Plan

Project Reference	Register No.	Structure of Project	Aspect of environmental impacts were addressed in the Project Profile/ approved EIA Report relevant to this Project Profile	Measures recommended in the Project Profile/ approved EIA Report	Conclusion of Study	Date of EIA Report Approval/ Permission to Apply Directly for EP	Issuance of EP (EP No.)
Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel	AEIAR-156/2010	The project comprises dredging the seabed of KTCB, along with sections of the Northern Fairway and Western Fairway	Surrounding environment and water sensitive receivers	N/A	N/A	20 July 2012	27 October 2011 (EP-426/2011)
The Development of AFCD Animal Management and Animal Welfare	DIR-263/2018	The project comprising of quarantine centre, biter/stray animal management	Air quality, noise, water quality, waste management and health risk management impacts	Implementation of mitigation measures related to air quality,	No unacceptable environmental impacts related to air quality, noise, water quality,	10 July 2018	10 August 2018 (EP-563/2018)

Project Reference	Register No.	Structure of Project	Aspect of environmental impacts were addressed in the Project Profile/ approved EIA Report relevant to this Project Profile	Measures recommended in the Project Profile/ approved EIA Report	Conclusion of Study	Date of EIA Report Approval/ Permission to Apply Directly for EP	Issuance of EP (EP No.)
Building Complex in Kai Tak Development		zone, small mammal keeping area and animal medical treatment facilities, office spaces, laboratory testing area and other facilities of AFCD.	related to animal quarantine activity.	noise, water quality, waste management and health risk management during operation phase.	waste management and health risk management impacts during operational phase is anticipated with the implementation of mitigation measures.		

Notes:

N/A – Not Applicable



LEGENDS :

Proposed Plan

Consultant

Allied Environmental Consultants Limited

Project No. :	2249
Drawn By :	CC

Project :

QUARANTINE SERVICE FOR SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS (SPCA) JOCKEY CLUB CENTENNIAL CENTRE (TSING YI CENTRE) AT CHEUNG FAI ROAD, TSING YI

Drawing Title :

LOCATION AND LAYOUT VIEWPLAN OF PROPOSED PLAN

Drawing No : FIGURE 1-1	Revision : 4
Scale : AS SHOWN	Date : MARCH 2025

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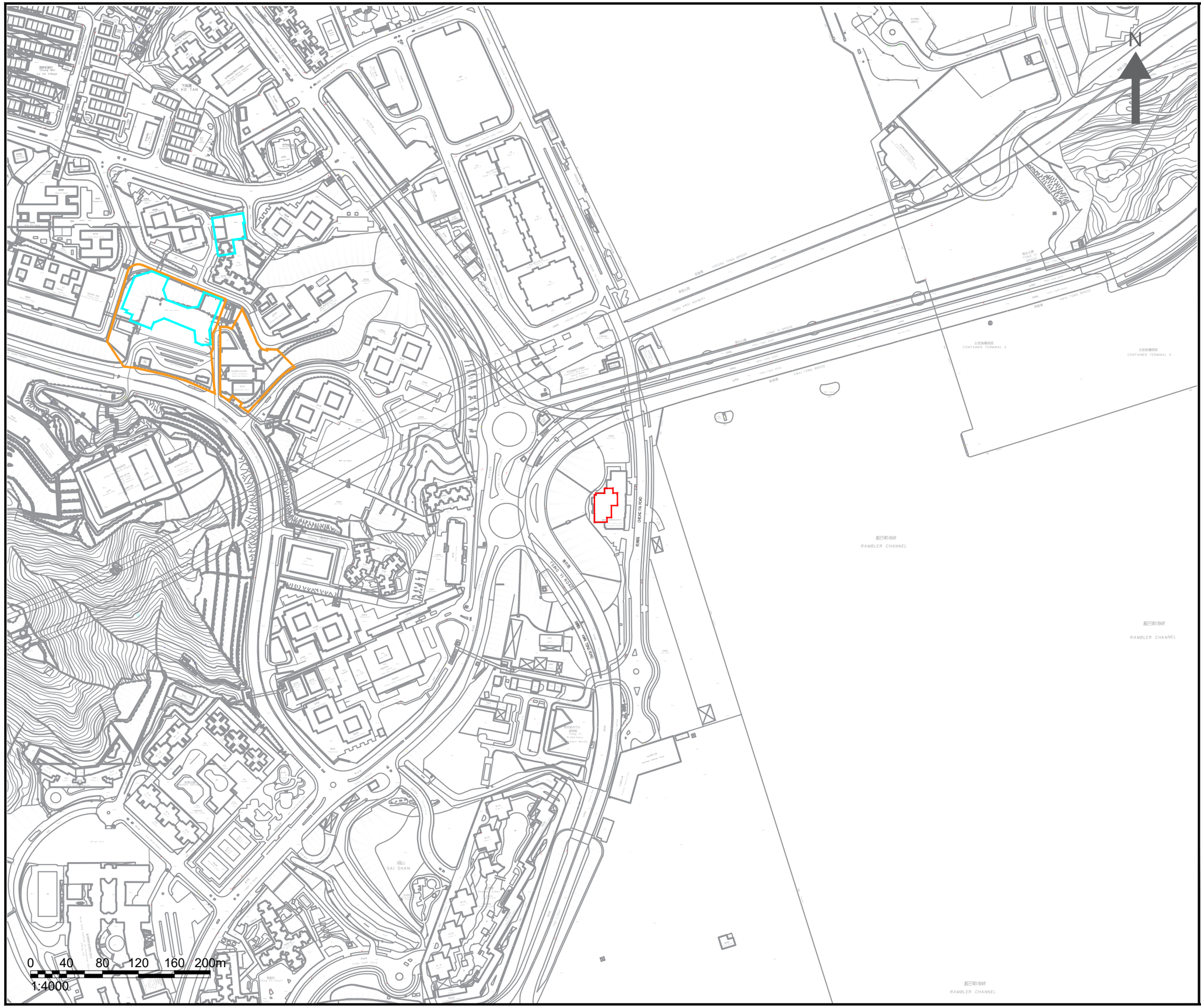

LEGENDS :

- Proposed Plan
- Public Housing Development at Ching Hong Road North (CHRN) Phase 3 and Phase 4
- 191GK - Community Hall, General Outpatient Clinic and Maternal and Child Health Centre at Ching Hong Road, Tsing Yi

Consultant

Allied Environmental Consultants Limited

Project No. :	2249
Drawn By :	CC

Project :

QUARANTINE SERVICE FOR SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS (SPCA) JOCKEY CLUB CENTENNIAL CENTRE (TSING YI CENTRE) AT CHEUNG FAI ROAD, TSING YI

Drawing Title :

LOCATIONS OF CONCURRENT PROJECTS

Drawing No :	Revision :
FIGURE 2-1	3
Scale : AS SHOWN	Date : MARCH 2025

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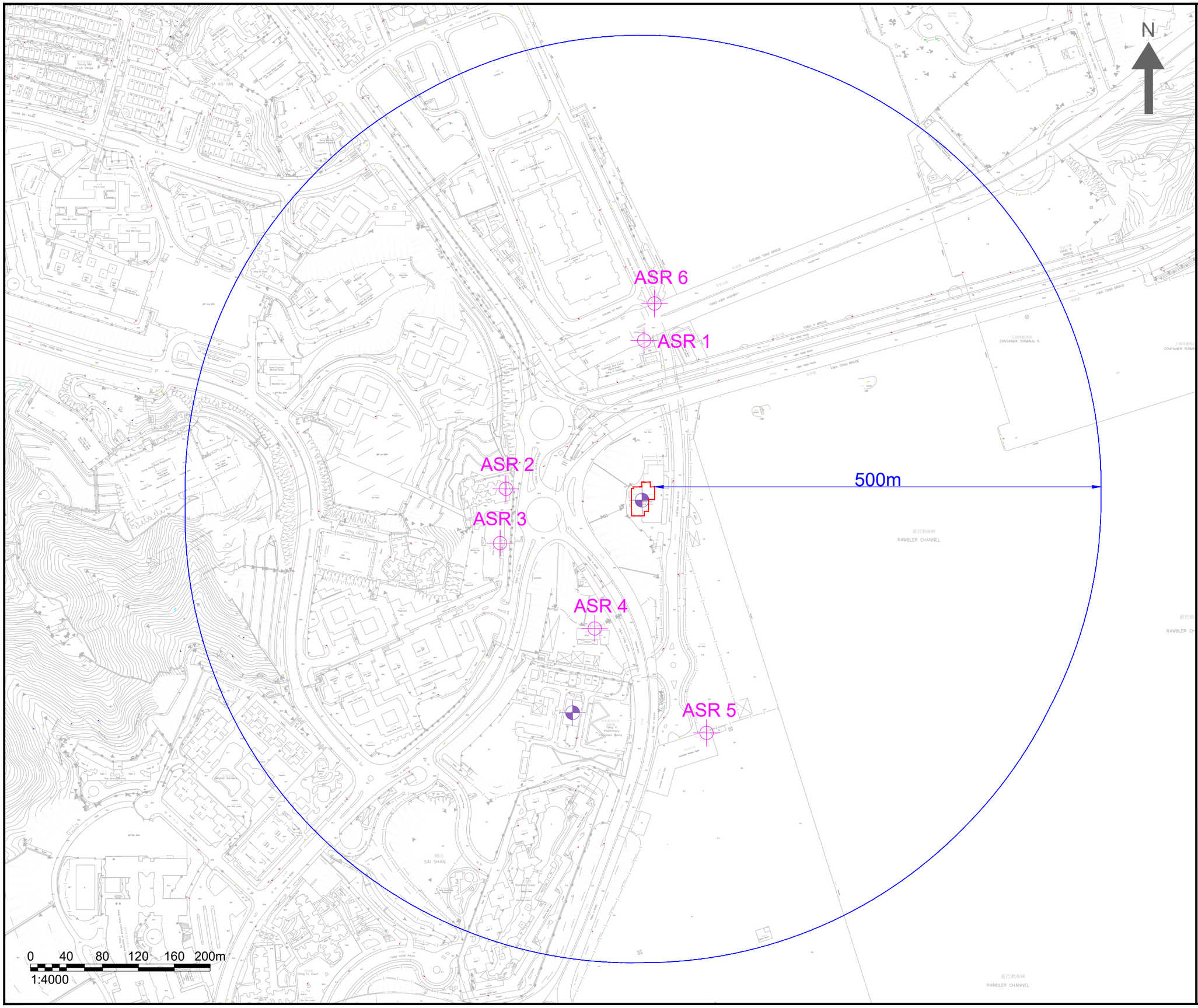

LEGENDS :

- PROPOSED PLAN
- 500M ASSESSMENT AREA
- REPRESENTATIVE ASRs
- INDICATIVE POTENTIAL ODOUR SOURCES

Consultant

Allied Environmental Consultants Limited

Project No. :	2249
Drawn By :	TL

Project :

QUARANTINE SERVICE FOR SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS (SPCA) JOCKEY CLUB CENTENNIAL CENTRE (TSING YI CENTRE) AT CHEUNG FAI ROAD, TSING YI

Drawing Title :

REPRESENTATIVE AIR SENSITIVE RECEIVERS (ASRs)

Drawing No : FIGURE 3-1	Revision : 2
Scale : AS SHOWN	Date : MAR 2025

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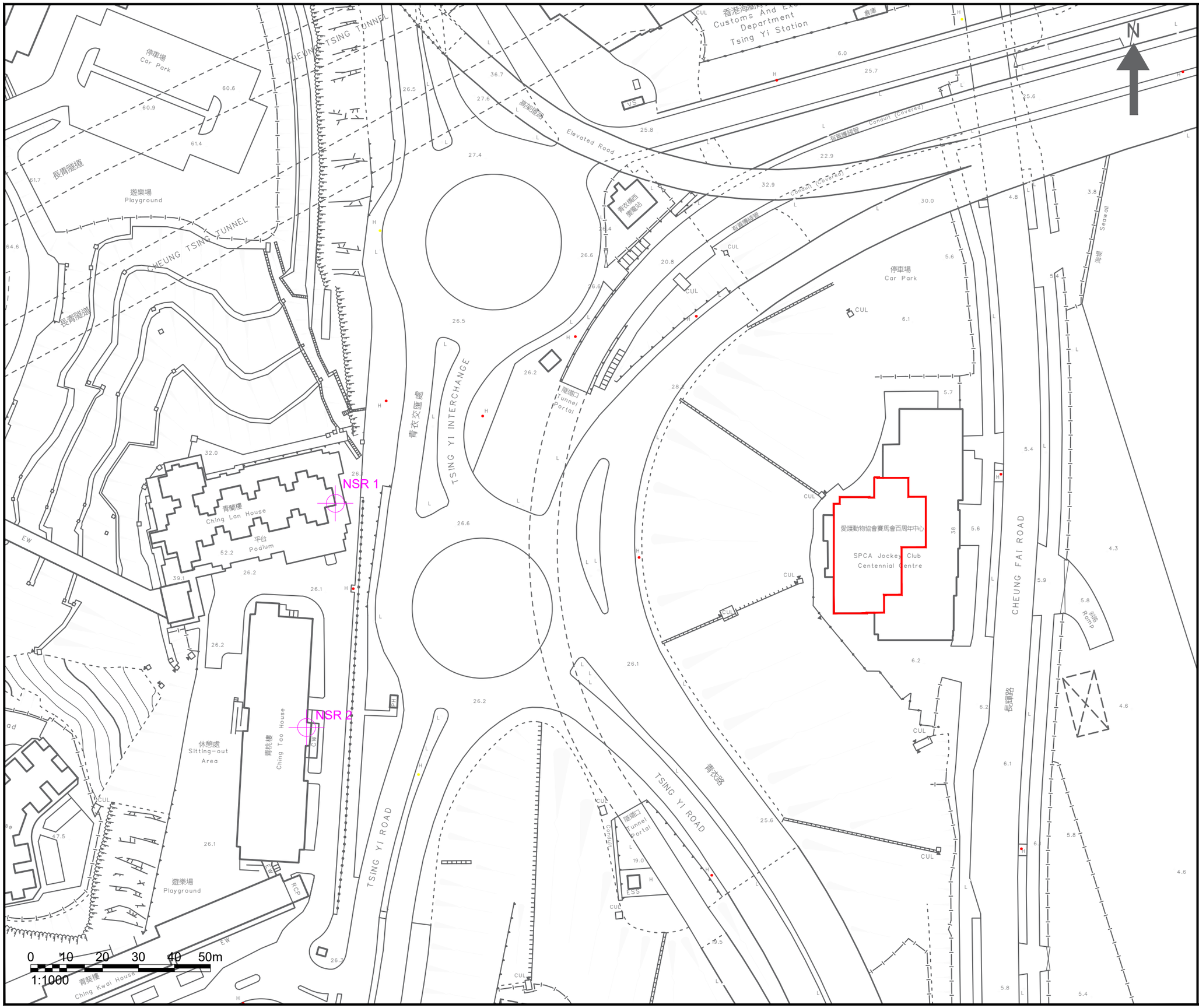

LEGENDS :

PROPOSED PLAN

REPRESENTATIVE NSR

Consultant

Allied Environmental Consultants Limited

Project No. :	2249
Drawn By :	MS

Project :

QUARANTINE SERVICE FOR SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS (SPCA) JOCKEY CLUB CENTENNIALL CENTRE (TSING YI CENTRE) AT CHEUNG FAI ROAD, TSING YI

Drawing Title :

REPRESENTATIVE NOISE SENSITIVE RECEIVERS (NSRs)

Drawing No : FIGURE 3-2	Revision : 2
Scale : AS SHOWN	Date : MAR 2025

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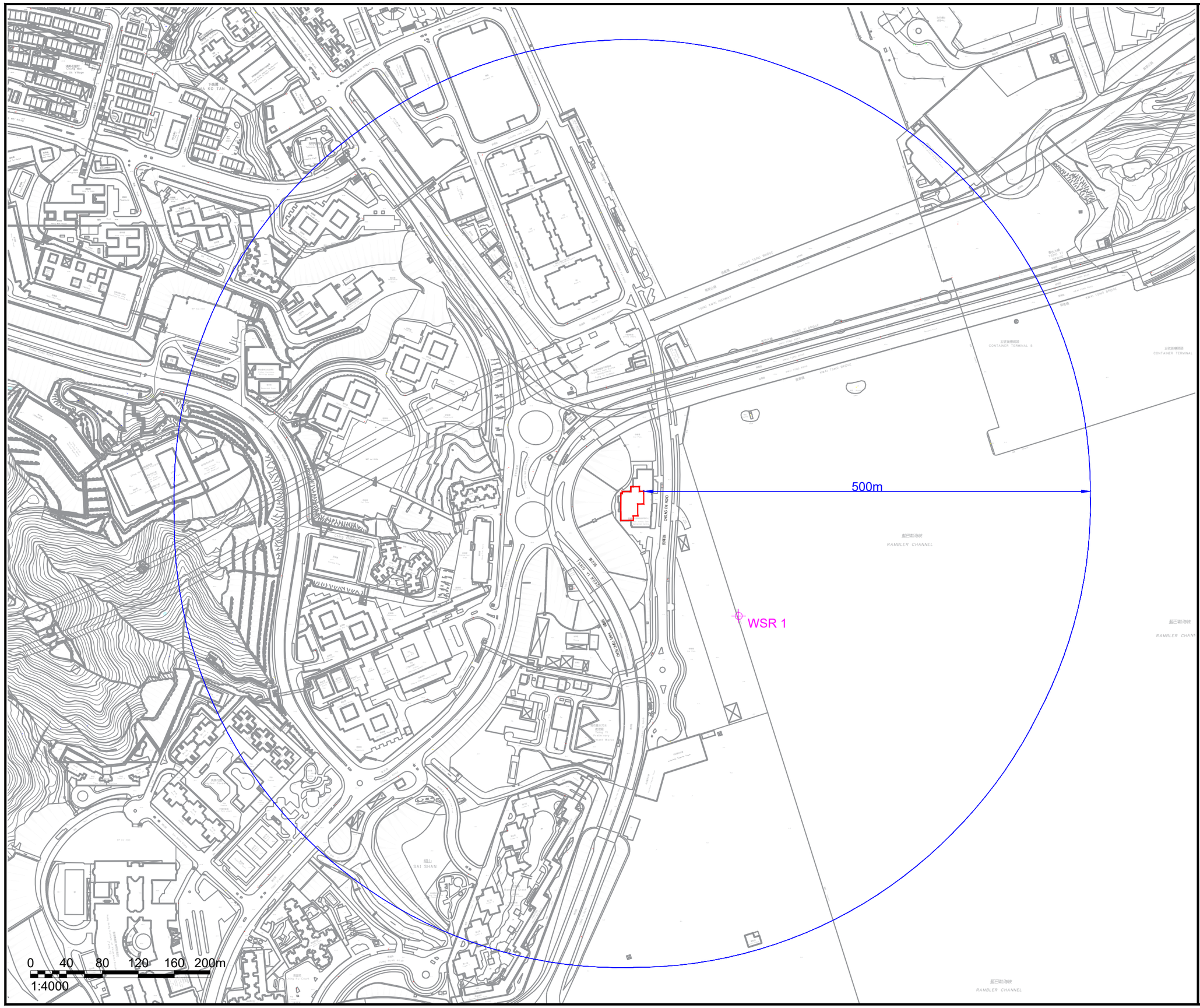

NOTES :

PROPOSED PLAN

500M ASSESSMENT AREA

REPRESENTATIVE WSR

Consultant

Allied Environmental Consultants Limited

Project No. :	2249
Drawn By :	RL

Project :

QUARANTINE SERVICE FOR SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS (SPCA) JOCKEY CLUB CENTENNIALL CENTRE (TSING YI CENTRE) AT CHEUNG FAI ROAD, TSING YI

Drawing Title :

REPRESENTATIVE WATER SENSITIVE RECEIVERS (WSRs)

Drawing No : FIGURE 3-3	Revision : 2
Scale : AS SHOWN	Date : MARCH 2025

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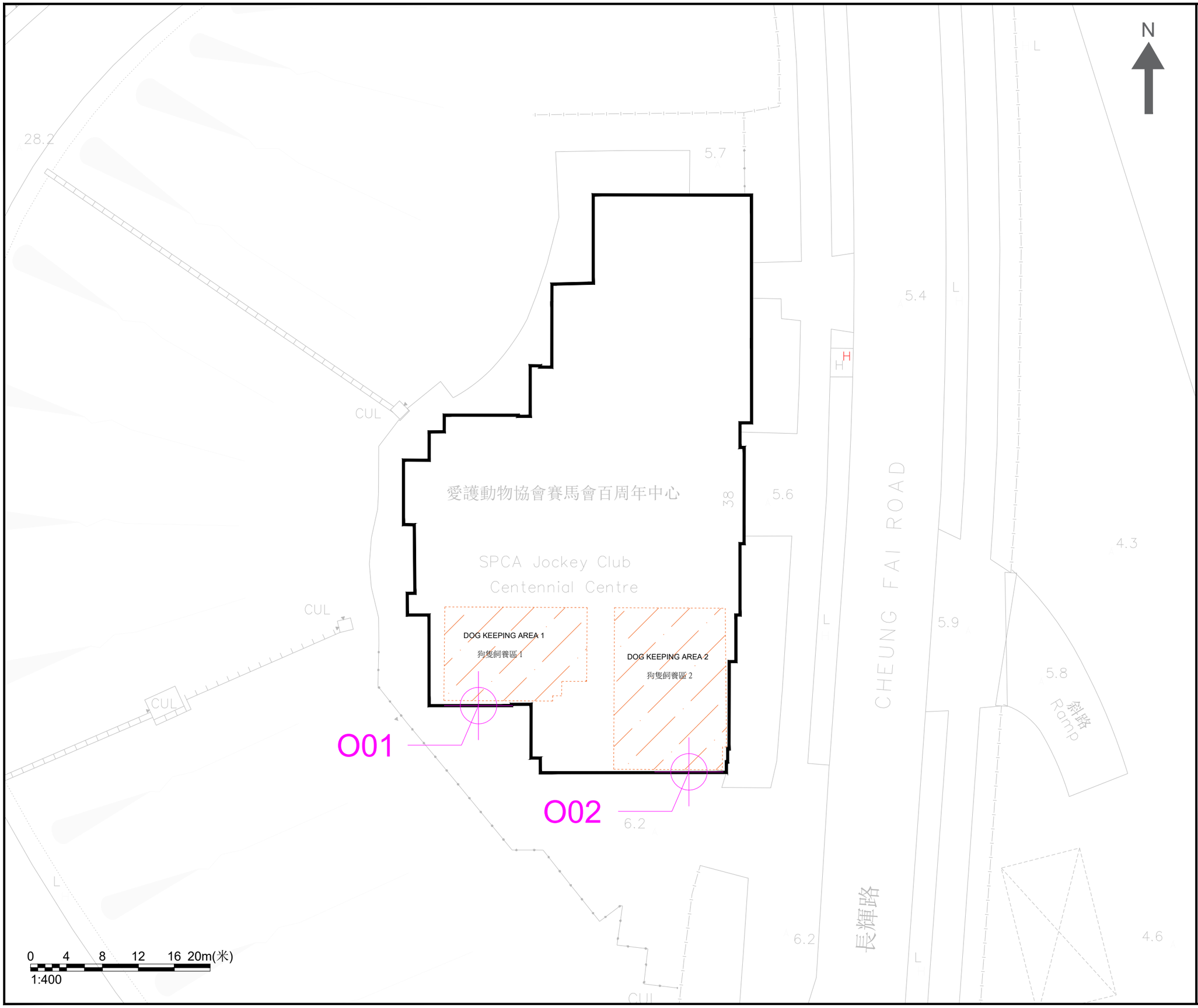
Appendix 5-1

Location of Exhaust Outlet



LEGENDS 圖示 :

DOG KEEPING AREA
狗隻飼養區

EXHAUST OUTLET
排氣口

Consultant

Allied Environmental Consultants Limited

Project No. :	2249
Drawn By :	TL

Project :

QUARANTINE SERVICE FOR SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS (SPCA) JOCKEY CLUB CENTENNIAL CENTRE (TSING YI CENTRE) AT CHEUNG FAI ROAD, TSING YI
愛護動物協會（SPCA）賽馬會百周年中心（青衣中心）位於青衣長輝路的檢疫服務

Drawing Title :

LOCATIONS OF EXHAUST OUTLETS (1/F)
排氣口位置 (一樓)

Drawing No : APPENDIX 5-1 附錄 5-1	Revision : 1
Scale : AS SHOWN 如圖所示	Date : MAR 2025

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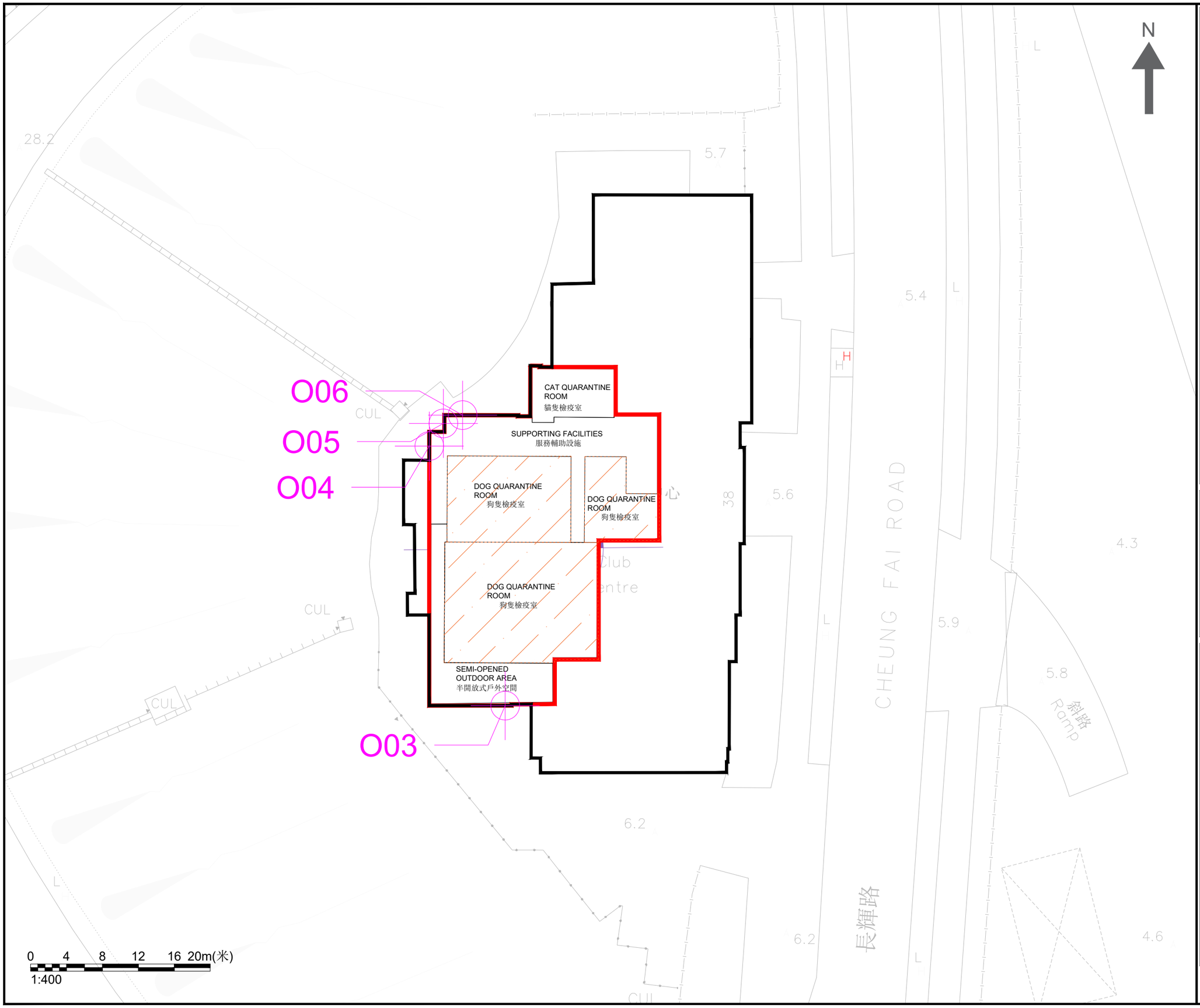

LEGENDS 圖示 :

PROPOSED PLAN
擬議計劃

DOG KEEPING AREA
狗隻飼養區

EXHAUST OUTLET
排氣口

Consultant

Allied Environmental Consultants Limited

Project No. :	2249
Drawn By :	TL

Project :

QUARANTINE SERVICE FOR SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS (SPCA) JOCKEY CLUB CENTENNIAL CENTRE (TSING YI CENTRE) AT CHEUNG FAI ROAD, TSING YI
愛護動物協會（SPCA）賽馬會百周年中心（青衣中心）位於青衣長輝路的檢疫服務

Drawing Title :

LOCATIONS OF EXHAUST OUTLETS (2/F)
排氣口位置 (二樓)

Drawing No : APPENDIX 5-1 附錄 5-1	Revision : 1
Scale : AS SHOWN 如圖所示	Date : MAR 2025

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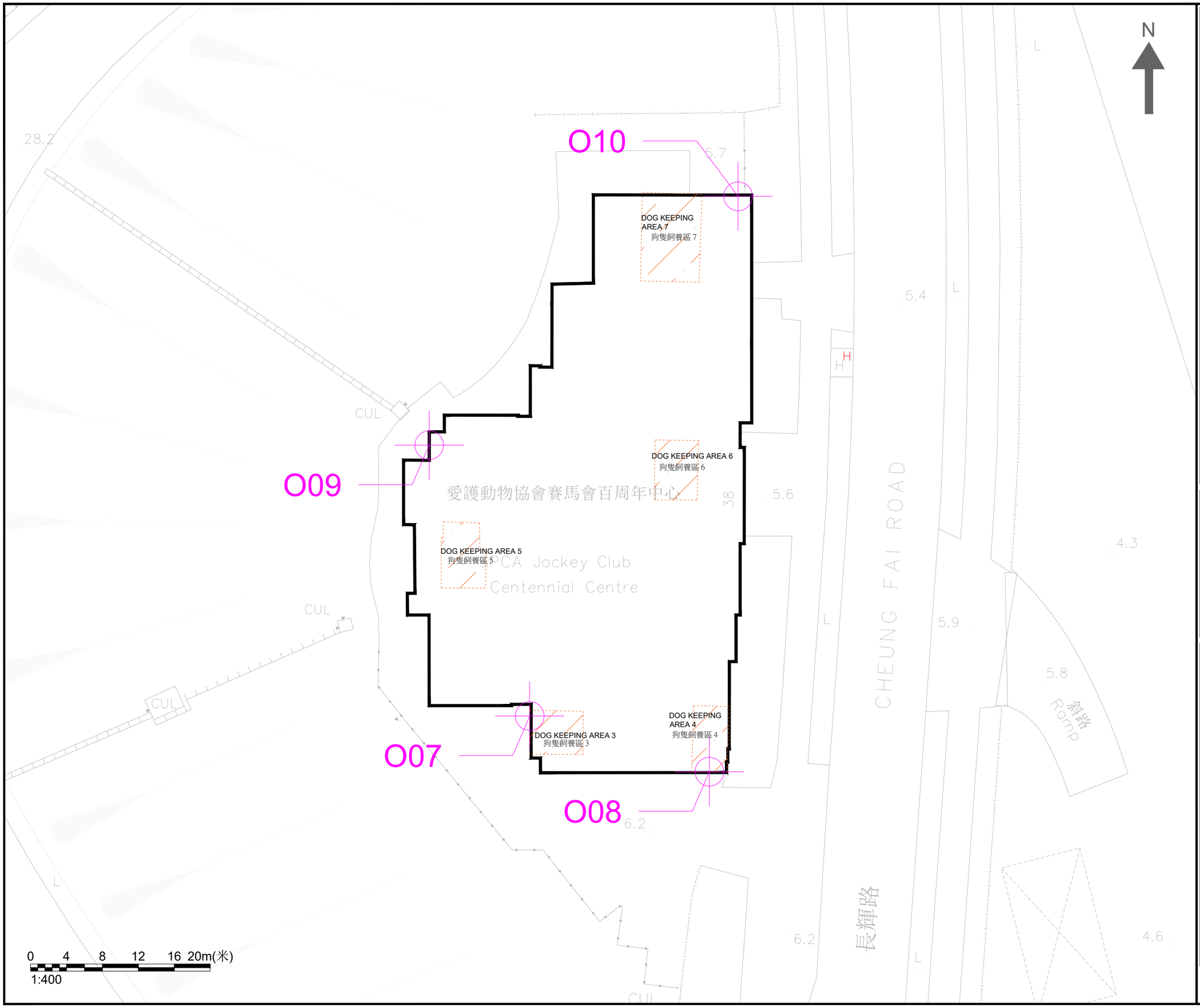

LEGENDS 圖示 :

DOG KEEPING AREA
狗隻飼養區

EXHAUST OUTLET
排氣口

Consultant

Allied Environmental Consultants Limited

Project No. :	2249
Drawn By :	TL

Project :

QUARANTINE SERVICE FOR SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS (SPCA) JOCKEY CLUB CENTENNIAL CENTRE (TSING YI CENTRE) AT CHEUNG FAI ROAD, TSING YI
愛護動物協會（SPCA）賽馬會百周年中心（青衣中心）位於青衣長輝路的檢疫服務

Drawing Title :

LOCATIONS OF EXHAUST OUTLETS (3/F)
排氣口位置 (三樓)

Drawing No : APPENDIX 5-1 附錄 5-1	Revision : 1
Scale : AS SHOWN 如圖所示	Date : MAR 2025

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Appendix 5-2

Cumulative Odour Impact Assessment

Project no.: 2249

Project Profile for Quarantine Service for Society for the Prevention of Cruelty to Animals (SPCA) Jockey Club Centennial Centre (Tsing Yi Centre) At Cheung Fai Road, Tsing Yi

Appendix 5-2 Odour Emission Inventory and Results Summary

Table 1. Odour Concentration in SPCA Hong Kong Centre – Headquarters ("Hong Kong Centre") [1]

Location	Sampling Period [2]	OU/m^3
Location 1	08:05 - 08:11	30
Location 2	08:05 - 08:12	45
Location 3	08:13 - 08:19	37
Location 4	08:15 - 08:21	34
Location 1	11:14 - 11:20	25
Location 2	11:21 -11:27	32
Location 3	11:29 -11:35	34
Location 4	11:38 -11:44	32

Remark:

[1] Information of odour concentration of Hong Kong Centre from EIA report (PP-569/2018) Project Profile - The Development of AFCD Animal Management and Animal Welfare Building Complex in Kai Tak Development is adopted in this odour assessment. Site visit of Hong Kong Centre was conducted on 28 February 2025 to verify the operation remains unchanged compared to the operation mentioned in the EIA report (PP-569/2018) including the ventilation system and cleaning practices

[2] The samples were taken before and after cleaning. Before cleaning period: 08:05 - 08:21, After cleaning period: 11:14 - 11:44.

Table 2. Information of Hong Kong Centre

			Notes:
Maximum Odour Concentration	45	OU/m^3	The highest odour concentration was measured on 2 August 2017 in Hong Kong Centre
No. of Dogs during Measurement	24		Number of dogs during measurment was recorded on 2 August 2017.
Area	181	m^2	Concerned area includes dog kennel areas, corridors and food preparation room.
Height	2.46	m	Height of the concerned area in Hong Kong Centre were measured on 2 August 2017.
Room Air Volume of Dog Keeping Area	445.53	m^3	Room Air Volume of Dog Keeping Area (m^3) = Area (m^2) × Height (m)
Total Odour Amount	20048.74	OU	Total Odour Amount (OU) = Maximum Odour Concentration in Dog Keeping Area (OU/m^3) × Room Air Volume of Dog Keeping Area (m^3)
Total Odour Amount per Dog	835.36	OU	Total Odour Amount per Dog (OU) = Total Odour Amount (OU) ÷ No. of Dogs during Measurement

Table 3. Odour Emission Estimation from the Existing Building Complex and Proposed Plan

Floor	Concerned Dog Keeping Area [1]	No. of Dog [2]	Room Air Volume of Dog Keeping Areas (m^3) [3]	Air flow rate (m3/s) [4]	Factors for Projection		Predicted Odour Concentration (OU/m^3) [7]	Air Change Rate [8]	Odour Concentration at Exhaust (OU/m^3) [9]
					No. of Dog [5]	Room Air Volume [6]			
1/F	Dog Keeping Area 1	12	594	1.166	0.50	0.75	16.87	7.06	2.39
1/F	Dog Keeping Area 2	14	840	1.749	0.58	0.53	13.93	7.50	1.86
2/F	Dog Quarantine Room	22	813	1.633	0.92	0.55	22.62	7.24	3.13
2/F	Dog Quarantine Room	15	471	1.05	0.63	0.95	26.63	8.03	3.31
2/F	Dog Quarantine Room	7	223	0.467	0.29	2.00	26.20	7.53	3.48
3/F	Dog Keeping Area 3	6	100	0.467	0.25	4.45	50.08	16.80	2.98
3/F	Dog Keeping Area 4	5	90	0.467	0.21	4.97	46.60	18.76	2.48
3/F	Dog Keeping Area 5	16	129	0.583	0.67	3.47	104.00	16.33	6.37
3/F	Dog Keeping Area 6	18	108	0.583	0.75	4.14	139.69	19.50	7.16
3/F	Dog Keeping Area 7	11	217	0.583	0.46	2.05	42.38	9.68	4.38
		SUM	126					**Maximum Odour Concentration**	37.54

Note:

[1] Based on the as-fitted MVAC drawing and the approved GBP , considering all exhaust outlet from MVAC system in the Existing Building Complex and Proposed Plan, odourous emission will be anticipated on the 1/F, 2/F and 3/F only. Exhaust outlet locations at corresponding floors are demonstrated in Appendix 5-1. The concerned dog keeping areas are chosen for odour emission calculation based on its frequent usage.

[2] Numbers of dog at each floor was confirmed by SPCA on 4 March 2025.

[3] Room Air Volume of Dog Keeping Areas (m^3) = Minimum Room Area at Each Floor (m^2) × Floor Height.

[4] The information of air flow rate is provided by SPCA.

[5] The projection factor for number of dogs is derived by dividing number of dogs in the Proposed Plan and Existing Building Complex by number of dogs in the Hong Kong Centre.

[6] The projection factor for room air volume of dog keeping area is derived by dividing room air volume of dog keeping area in the Hong Kong Centre by room air volume of dog keeping areas in the Proposed Plan and Existing Building Complex.

[7] Predicted Odour Concentration (OU/m^3) = Maximum Odour Concentration in Table 1 (OU/m^3) × (No. of Dog in the Existing Building Complex and Proposed Plan ÷ No. of Dogs in Hong Kong Centre) × (Room Air Volume of Dog Keeping Area in Hong Kong Centre ÷ Room Air Volume of All Keeping Area in the Existing Building Complex and Proposed Plan)

[8] Air Change Rate (ACH) = Air Flow Rate (m3/s) / Room Air Volumn of Dog Keeping Areas (m3) × 3600

[9] Odour Concentration at Exhaust (OU/m^3) = Odour Concentration (OU/m^3) /Minimum Air Change Rate

Project no.: 2249

Project Profile for Quarantine Service for Society for the Prevention of Cruelty to Animals (SPCA) Jockey Club Centennial Centre (Tsing Yi Centre) At Cheung Fai Road, Tsing Yi

Appendix 5-2 Odour Emission Inventory and Results Summary

Table 4: Odour Emission from the Existing Building Complex and Proposed Plan [1]

Source: POINTHOR

Floor		Source ID	X	Y	Z (base elevation)	Exhaust	Exhaust Flow Rate [2]	Louvre Size [2]			Projected diameter [3]	Temperature [4]	Velocity [2]	Odour Concentration at exhaust	Odour Emission Rate
						Elevation (mAG) [2]	(m^3/s)	Area (m^2)	W(m)	H(m)	(m)	(K)	(m/s)	(OU/m3)	(OU/s)
1/F	Dog Keeping Area 1	O01	829529.24	823070.17	5.7	9.13	1.17	0.97	1.94	0.5	1.111	294	1.20	2.39	2.785
	Dog Keeping Area 2	O02	829550.68	823062.58	5.7	9.13	1.75	1.5	3.00	0.5	1.382	294	1.17	1.86	3.249
2/F	Dog Quarantine Room	O03	829535.12	823070.4	5.7	12.73	1.63	1.425	2.85	0.5	1.347	294	1.15	3.13	5.105
	Dog Quarantine Room	O04	829524.07	823100.02	5.7	12.93	0.53	0.21	0.7	0.3	0.517	294	2.50	3.31	1.740
		O05	829525.76	823101.63	5.7	12.78	0.53	0.495	1.1	0.45	0.794	294	1.06		1.740
	Dog Quarantine Room	O06	829528.46	823102.93	5.7	12.78	0.47	0.72	1.6	0.45	0.957	294	0.65	3.48	1.624
3/F	Dog Keeping Area 3	O07	829535.59	823068.49	5.7	16.38	0.47	0.54	1.2	0.45	0.829	294	0.86	2.98	1.392
	Dog Keeping Area 4	O08	829555.38	823062.51	5.7	16.33	0.47	0.675	1.35	0.5	0.927	294	0.69	2.48	1.160
	Dog Keeping Area 5	O09	829524.07	823098.3	5.7	16.43	0.58	0.42	1.05	0.4	0.731	294	1.39	6.37	3.713
	Dog Keeping Area 6	O10	829560.08	823127.47	5.7	16.38	1.17	0.5175	1.15	0.45	0.812	294	2.25	7.16	13.459
	Dog Keeping Area 7													4.38	

Table 5: Odour emission from Tsing Yi Preliminary Treatment Works (TYPTW) [4] [5]

Source: POINT

Name of Building	Source ID	X	Y	Z (base elevation)	Emission Rate	Air Flow Rate	Concentration	Concentration	Odour Emission Rate [6]	Release Height	Exit velocity	Stack Diameter
					H2S							
					(µg/s)	(m3/s)	(µg/m3)	(OU/m3)	(OU/s)	(m)	(m/s)	(m)
Tsing Yi Preliminary Treatment Works	T01	829452	822822	7.1	17.38	2.501	6.9492	10.5291	26.333	1.05	5	0.798
	T02	829431	822889.8	7.5	11.76	1.592	7.3869	11.1923	17.818	8	5	0.656
	T03	829452.2	822858.4	7.3	8.75	1.259	6.9500	10.5302	13.258	6.5	5	0.566
	T04	829466.6	822856	7.3	8.75	1.259	6.9500	10.5302	13.258	7.7	5	0.566
	T05	829460.7	822842.8	7.3	8.75	1.259	6.9500	10.5302	13.258	6.5	5	0.566

Remark:

[1]: POINTHOR source type is adopted, as the exhausted louver is directed 30 degrees below horizontal at the point of release. The odour source are found 9-16m above ground, building wake effect is expected. Therefore, the odour sources from the existing building complex and proposed plan are identified as wake-affected point sources

[2]: The information is provided by SPCA.

[3]: Projected diameter is calculated based on the area of the lourve

[4]: According to the indoor design conditions by Building Services, it is noted that the indoor temperature is 21 degree celsius for dog keeping area. Therefore, it is assumed that the temperature of exhaust outlet would be the same as the indoor room temperature.

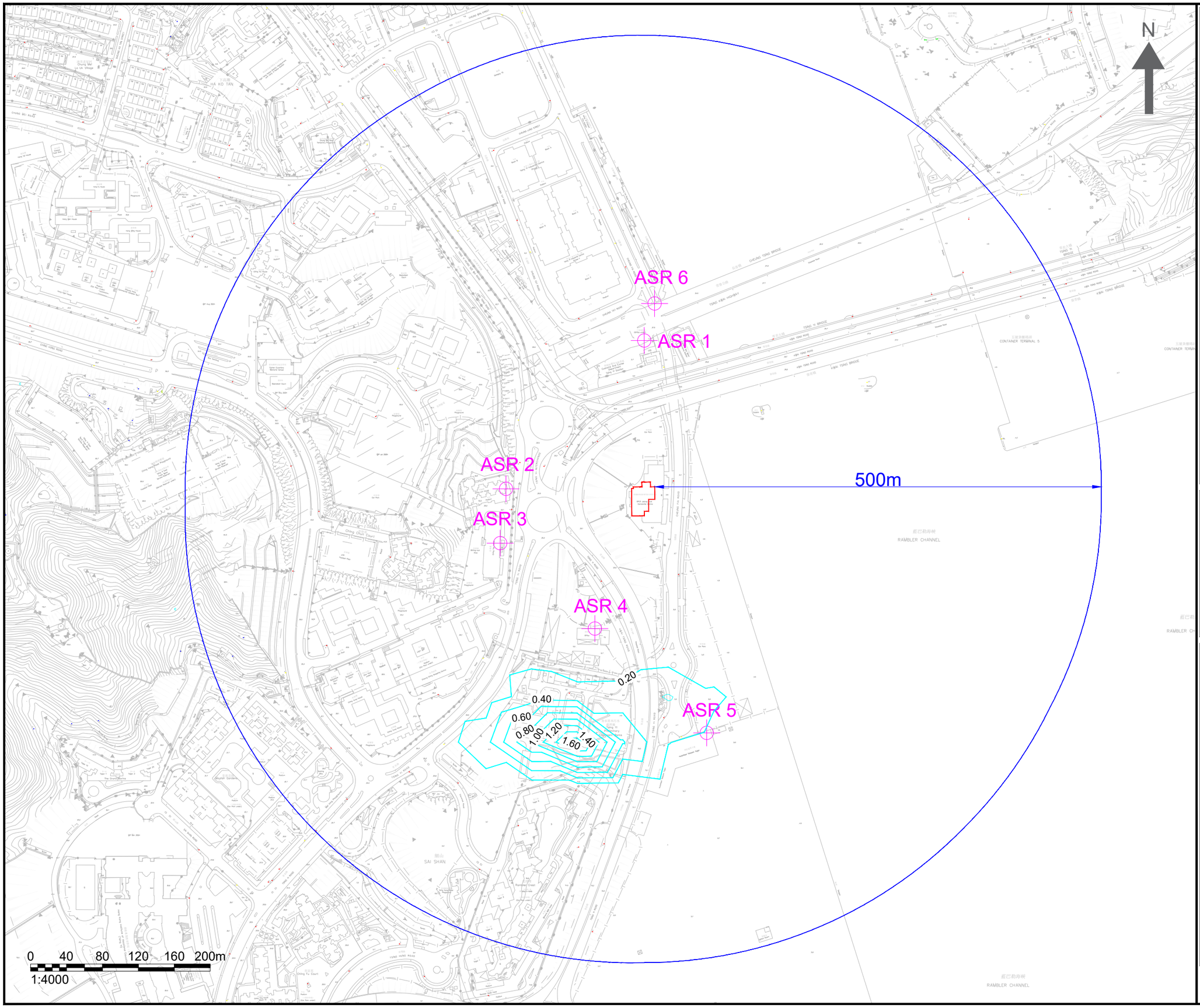
[5]: The information of odour emission is refered to the (EIA-092/BC) Strategic Sewage Disposal Scheme Stage 1 - Principal Collection & Treatment System Environmental Impact Assessment. The odour source are found 1-8m above ground, building wake effect is expected. Therefore, the odour sources from TYPTW are identified as wake-affected point sources

[6] According to the Environmental Guidance Note for Sewage Pumping Stations which is not a Designated Project, measurement of odour can also be expressed in terms of Hydrogen Sulphide (H2S) concentration, and the equivalent detection threshold criterion (1 odour unit) is 0.00047 ppm by volume or 0.00066 mg/m3.

Table 6: Result of odour concentration

ASR ID	Description	X	Y	Base Elevation (mPD), i.e. Ground Level	Building Height (m)	Building Top Level, mPD	Criterion based on an average time of 5 seconds	Highest odour concentration (OU/m3) at flatpole (m)															
								1.5	5	10	15	20	30	40	50	60	70	80	90	100	110	120	130
ASR01	Customs and Excise Department Tsing Yi Station	829538	823266	5.7	7.7	13.4	5 OU/m3	0.03666	0.05014	0.05256													
ASR02	Ching Lan House	829383	823100	26.2	126.3	152.5		0.01957	0.01992	0.01941	0.01808	0.01626	0.01412	0.01339	0.01316	0.01288	0.01258	0.01226	0.01191	0.01152	0.01113	0.01072	0.01028
ASR03	Ching Tao House	829377	823040	26.1	34.8	60.9		0.02383	0.02307	0.02029	0.01953	0.01865	0.01677	0.01479									
ASR04	Tsing Yi Sewage Treatment Plant	829483	822944	5.7	6.3	12.0		0.04660	0.04660	0.03899													
ASR05	Hutchison Telecom Tower	829608	822827	4.7	55.3	60.0		0.10649	0.15097	0.25088	0.24168	0.13851	0.03149	0.01640	0.01389	0.01265							
ASR06	Cheung Fai Road Promenade	829550	823308	17.6	0.0	17.6		0.03652															

Remark:
[1]: Conversion of model-computed hourly average results from 1-hour to 5-second values are referred to EPD "Guidelines on Choice of Models and Model Parameters". As all odour sources in the modeling are wake-affected point sources, the conversion factor would be 2.3 for the computed results
[2]: As the maximum odour concentration of 0.25 OU/m3 is found at 10m above ground, the contour of cumulative odour concentration at 10m above ground are provided in **Figure A** as worst hit levels.



LEGENDS 圖示：

- PROPOSED PLAN 擬議計劃
- 500M ASSESSMENT AREA 500米評估範圍
- REPRESENTATIVE ASRs 具代表性的空氣敏感受體
- ODOUR CONTOUR 氣味等值線

Consultant

Allied Environmental Consultants Limited

Project No. :	2249
Drawn By :	TL

Project :

QUARANTINE SERVICE FOR SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS (SPCA) JOCKEY CLUB CENTENNIAL CENTRE (TSING YI CENTRE) AT CHEUNG FAI ROAD, TSING YI
愛護動物協會（SPCA）賽馬會百周年中心（青衣中心）位於青衣長輝路的檢疫服務

Drawing Title :

CONTOURS OF CUMULATIVE ODOUR CONCENTRATION AT 10M ABOVE GROUND
離地面10米的氣味累積影響等量圖

Drawing No : FIGURE A 圖 A	Revision : 2
Scale : AS SHOWN 如圖所示	Date : MAR 2025

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A3 420 x 297

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