

## Appendix 8.4

### List of Fauna Species Recorded

**Table 1.** Abundance and Distribution of Mammal Species Recorded

Species	Conservation and Protection Status <sup>1</sup>	Local Distribution	Outside the Project Site			Within the Project Site	
			DA	IF	WL	DA	WL
Pallas's Squirrel <i>Callosciurus erythraeus</i>	LC(RLCB); Cap.170	Common. Fairly widely distributed	2				
Domestic Dog <i>Canis lupus familiaris</i>	-	Common	30			20	
Short-nosed Fruit Bat <i>Cynopterus sphinx</i>	RLCV (NT); Cap. 170	Very widely distributed in urban and countryside areas throughout Hong Kong.		11	3		
Domestic Cat <i>Felis catus</i>	-	Very Common; Widely distributed in urban and countryside areas throughout Hong Kong.	5			1	
Red Muntjac <i>Muntiacus vaginalis</i>	RLCV (NT)	Very widely distributed in countryside areas throughout Hong Kong.			2		
Japanese Pipistrelle <i>Pipistrellus abramus</i>	Cap. 170	Widely distributed throughout Hong Kong.		*			
Eurasian Wild Pig <i>Sus scrofa</i>	-	Very widely distributed in countryside areas throughout Hong Kong			*		*
<b>Total no. of species recorded</b>			<b>3</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>1</b>

## Notes:

## 1. Conservation and Protection Status refers to:

- a. Fellowes et al. 2002: LC (Local Concern); PRC (Potential Regional Concern); RC (Regional Concern); PGC (Potential Global Concern); GC (Global Concern). Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence.
- b. Red List of China's Vertebrates (RLCV), Jiang et al. 2016: NT (Near Threatened); VU (Vulnerable); EN (Endangered); CR (Critically Endangered)
- c. IUCN 2022: NT (Near Threatened); VU (Vulnerable); EN (Endangered); CR (Critically Endangered)
- d. China State Major Protection Status (CSMPS): II = Class II Protected Species in China
- e. CITES 2021: Listed in CITES Appendix II.
- f. Cap. 170: Wild Animals Protection Ordinance. All wild birds in Hong Kong are protected under Cap. 170.
- g. Cap. 586 = Protection of Endangered Species of Animals and Plants Ordinance.

2. Habitat types: MW (Modified Watercourse) ; NW(Natural Watercourse); Artificial Pond (AP); Marsh/Reedbed (MA/RB); DA (Developed Area) ; PL (Plantation); SL (Shrubland) ; WL (Woodland); GL (Grassland) ; SHGL (Shrubby Grassland)

3.\* No direct observations. Only calls were heard, and rooting signs, tracks, and scats were observed

**Table 2.** Abundance and Distribution of Avifauna Species Recorded

Species	Conservation and Protection Status <sup>1</sup>	Principal Status <sup>2</sup>	Wetland-dependent (Y/N)	Outside the Project Site								Within the Project Site				
				DA	IF	MW	NW	PL	SL	WL	SHGL	DA	IF	MW	PL	WL
Ashy Drongo <i>Dicrurus leucophaeus</i>	LC	W	N					8								
Asian Koel <i>Eudynamys scolopaceus</i>	-	Su, R	N	4				10		1		1			2	
Barn Swallow <i>Hirundo rustica</i>	-	Sp, Su	N		13								4			
Black Kite <i>Milvus migrans</i>	Cap. 589; (RC); CSMPS(II)	W, R	Y		2					1						
Black-collared Starling <i>Gracupica nigricollis</i>	-	R	N	6				17				4			1	3
Black-throated Laughingthrush <i>Pterorhinus chinensis</i>	-	R	N					2		20	6					
Blue Whistling Thrush <i>Myophonus caeruleus</i>	-	R	N					3		3						1
Chestnut-winged Cuckoo <i>Clamator coromandus</i>	-	Su, Sp	N							3						
Chinese Bulbul <i>Pycnonotus sinensis</i>	-	R	N	7				5	10	21	5					
Cinereous Tit <i>Parus cinereus</i>	-	R	N					4		13						7
Collared Crow <i>Corvus torquatus</i>	LC; RLCV (NT); IUCN (VU)	R	Y	1												
Common Myna <i>Acridotheres tristis</i>	-	R	N	2												
Common Tailorbird <i>Orthotomus sutorius</i>	-	R	N	6				15		10					1	13
Crested Myna <i>Acridotheres cristatellus</i>	-	R	N	7	6	1		8		5		15				5
Crested Serpent Eagle <i>Spilornis cheela</i>	(LC); RLCV(NT); CITES(II);	R,M	N		3											
Daurian Redstart <i>Phoenicurus auroreus</i>	-	-	N							1						
Eurasian Tree Sparrow <i>Passer montanus</i>	-	R	N	32		2		50		7		23			2	2
Greater Coucal <i>Centropus sinensis</i>	CSMPS(II)	R	N					4		7						
Greater Necklaced Laughingthrush <i>Pterorhinus pectoralis</i>	-	R	N							3						
House Swift <i>Apus nipalensis</i>	-	Sp, R	N		11											
Large Hawk-Cuckoo <i>Hierococcyx sparverioides</i>	-	Su	N	1				2		7						

Species	Conservation and Protection Status <sup>1</sup>	Principal Status <sup>2</sup>	Wetland-dependent (Y/N)	Outside the Project Site								Within the Project Site				
				DA	IF	MW	NW	PL	SL	WL	SHGL	DA	IF	MW	PL	WL
Large-billed Crow <i>Corvus macrorhynchos</i>	-	R	N		9						3					3
Masked Laughingthrush <i>Pterorhinus perspicillatus</i>	-	R	N	9				16	10	15		5			10	3
Olive-backed Pipit <i>Anthus hodgsoni</i>	-	W	N							9						
Oriental Magpie <i>Pica serica</i>	-	R	N	1	1			2				2			1	
Oriental Magpie Robin <i>Copsychus saularis</i>	-	R	N	7				6		4		14			17	2
Pallas's Leaf Warbler <i>Phylloscopus proregulus</i>	-	W	N							4					1	
Plain Prinia <i>Prinia inornata</i>	-	R	N			6										
Plaintive Cuckoo <i>Cacomantis merulinus</i>	-	Su	N					1		3						
Red-billed Blue Magpie <i>Urocissa erythroryncha</i>	-	R	N	1												
Red-whiskered Bulbul <i>Pycnonotus jocosus</i>	-	R	N	18						15	91	10	23		46	1
Rock Dove <i>Columba livia</i>	-	R	N	8												
Rufous-capped Babbler <i>Stachyridopsis ruficeps</i>	LC	R	N					4		6	4					
Scaly-breasted Munia <i>Lonchura punctulata</i>	-	R	N							6						
Scarlet-backed Flowerpecker <i>Dicaeum cruentatum</i>	-	R	N							1						
Spotted Dove <i>Spilopelia chinensis</i>	-	R	N	19				6		2		10	2		18	
Swinhoe's White-eye <i>Zosterops simplex</i>	-	R	N	3				15		10					31	3
White Wagtail <i>Motacilla alba</i>	-	W, R	N			8										
White-shouldered Starling <i>Sturnia sinensis</i>	(LC)	M, W, Su	N							2						
Yellow-bellied Prinia <i>Prinia flaviventris</i>	-	R	N	2				4	4						1	
Yellow-browed Warbler <i>Phylloscopus inornatus</i>	-	W	N							4						3
<b>Total no. of species recorded</b>				<b>18</b>	<b>7</b>	<b>4</b>	<b>0</b>	<b>20</b>	<b>4</b>	<b>27</b>	<b>4</b>	<b>9</b>	<b>2</b>	<b>0</b>	<b>12</b>	<b>12</b>

Notes:

1. Conservation and Protection Status refers to:

- a. a. Fellowes et al. 2002: LC (Local Concern); PRC (Potential Regional Concern); RC (Regional Concern); PGC (Potential Global Concern); GC (Global Concern). Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence
  - b. Red List of China's Vertebrates (RLCV), Jiang et al. 2016: NT (Near Threatened); VU (Vulnerable); EN (Endangered); CR (Critically Endangered)
  - c. IUCN 2022: NT (Near Threatened); VU (Vulnerable); EN (Endangered); CR (Critically Endangered)
  - d. China State Major Protection Status (CSMPS): II = Class II Protected Species in China
  - e. CITES 2021: Listed in CITES Appendix II.
  - f. Cap. 170: Wild Animals Protection Ordinance. All wild birds in Hong Kong are protected under Cap. 170.
  - g. Cap. 586: Protection of Endangered Species of Animals and Plants Ordinance.
2. Principal Status (Carey et al. 2001): R (Resident); W (Winter); Su (Summer); Sp (Spring); A (Autumn); M (Migrant); P (Present all year, exact composition unknown)
  3. Habitat types: MW (Modified Watercourse); NW (Natural Watercourse); Artificial Pond (AP); DA (Developed Area); PL (Plantation); SL (Shrubland); WL (Woodland); GL (Grassland); SHGL (Shrubby Grassland)

**Table 3. Abundance and Distribution of Amphibian Species Recorded**

Species	Conservation and Protection Status <sup>1</sup>	Local Distribution	Outside the Project Site		Within the Project Site
			MW	WL	WL
Asian Common Toad <i>Duttaphrynus melanostictus</i>	-	Widely distributed in Hong Kong	110		58
Asiatic Painted Frog <i>Kaloula pulchra</i>	-	Widely distributed in Hong Kong	22		9
Brown Tree Frog <i>Polypedates megacephalus</i>	-	Widely distributed throughout Hong Kong	18		28
Butler's Pigmy Frog <i>Microhyla butleri</i>	-	Widely distributed in Hong Kong			1
Greenhouse Frog <i>Eleutherodactylus planirostris</i>	-	Widely distributed throughout Hong Kong	22		10
Gunther's Frog <i>Sylvirana guentheri</i>	-	Widely distributed throughout Hong Kong	2	6	
Marbled Pigmy Frog <i>Microhyla pulchra</i>	-	Widely distributed in Hong Kong	4		6
Ornate Pigmy Frog <i>Microhyla fissipes</i>	-	Widely distributed in Hong Kong	2		1
Paddy Frog <i>Fejervarya multistriata</i>	-	Widely distributed throughout Hong Kong	7		5
Spotted Narrow-mouthed Frog <i>Kalophrynus interlineatus</i>	RLCV(NT)	Widely distributed from low to moderate altitudes in northern and central New Territories	1	1	
<b>Total no. of species recorded</b>			<b>9</b>	<b>2</b>	<b>8</b>

**Notes:**

1. Conservation and Protection Status refers to:

a. Fellowes et al. 2002: LC (Local Concern); PRC (Potential Regional Concern); RC (Regional Concern); PGC (Potential Global Concern); GC (Global Concern). Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence.

b. Red List of China's Vertebrates (RLCV), Jiang et al. 2016: NT (Near Threatened); VU (Vulnerable); EN (Endangered); CR (Critically Endangered)

c. IUCN 2022: NT (Near Threatened); VU (Vulnerable); EN (Endangered); CR (Critically Endangered)

d. China State Major Protection Status (CSMPS): II = Class II Protected Species in China

e. CITES 2021: Listed in CITES Appendix II.

f. Cap. 170: Wild Animals Protection Ordinance. All wild birds in Hong Kong are protected under Cap. 170.

g. Cap. 586: Protection of Endangered Species of Animals and Plants Ordinance.

2. Habitat types: MW (Modified Watercourse) ; NW(Natural Watercourse); Artificial Pond (AP); Marsh/Reedbed (MA/RB); DA (Developed Area) ; PL (Plantation); SL (Shrubland) ; WL (Woodland); GL (Grassland) ; SHGL (Shrubby Grassland)

**Table 4.** Abundance and Distribution of Reptile Species Recorded

Species	Conservation and Protection Status <sup>1</sup>	Local Distribution	Outside the Project Site		Within the Project Site
			MW	WL	WL
Bamboo Snake <i>Trimeresurus albolabris</i>	-	Very common and widespread in Hong Kong	1		
Bowring's Gecko <i>Hemidactylus bowringii</i>	-	Distributed throughout Hong Kong.	8	11	8
Chinese Gecko <i>Gekko chinensis</i>	-	Widely distributed throughout Hong Kong	11	9	1
Common Blind Snake <i>Indotyphlops braminus</i>	-	Widespread in Hong Kong	1		
Common Wolf Snake <i>Lycodon capucinus</i>	RLCV (NT)	Widely distributed at low elevations throughout Hong Kong Island, Lantau Island and Lamma Island. Several individuals recorded in New Territories	4		
Garnot's Gecko <i>Hemidactylus garnotii</i>	-	Distributed in Lantau Island, Hong Kong Island and Eastern New Territories	1		
Tokay Gecko <i>Gekko gekko</i>	Cap 586; RLCV(CE); CITES (II); RC	Distributed on Lamma Island, Lantau Island, Hong Kong Island, Lion Rock Country Park, Ma On Shan Country Park and Pat Sin Leng Country Park. Some populations are believed to come from those escaped from snake shops		2	
<b>Total no. of species recorded:</b>			<b>6</b>	<b>3</b>	<b>2</b>

## Notes:

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b. Red List of China's Vertebrates (RLCV), Jiang et al. 2016: NT (Near Threatened); VU (Vulnerable); EN (Endangered); CR (Critically Endangered)

c. IUCN 2022: NT (Near Threatened); VU (Vulnerable); EN (Endangered); CR (Critically Endangered)

d. China State Major Protection Status (CSMPS): II = Class II Protected Species in China

e. CITES 2021: Listed in CITES Appendix II.

f. Cap. 170: Wild Animals Protection Ordinance. All wild birds in Hong Kong are protected under Cap. 170.

g. Cap. 586: Protection of Endangered Species of Animals and Plants Ordinance.

2. Habitat types: MW (Modified Watercourse) ; NW(Natural Watercourse); Artificial Pond (AP); Marsh/Reedbed (MA/RB); DA (Developed Area) ; PL (Plantation); SL (Shrubland) ; WL (Woodland); GL (Grassland) ; SHGL (Shrubby Grassland)

Table 5. Abundance and Distribution of Butterfly Species Recorded

Species	Conservation and Protection Status <sup>1</sup>	Status in Hong Kong	Outside the Project Site							Within the Project Site			
			DA	GL	MW	PL	SHGL	SL	WL	DA	MW	PL	WL
Angled Castor <i>Ariadne ariadne</i>	-	Common	1										
Blue Admiral <i>Kaniska canace</i>	-	Common									1		
Blue Tiger <i>Tirumala limniace</i>	-	Common					1						2
Blue-spotted Crow <i>Euploea midamus</i>	-	Very Common							2				
Chinese Peacock <i>Papilio bianor</i>	-	Common	1							2			
Common Archduke <i>Lexias pardalis</i>	-	Common								5			
Common Bluebottle <i>Graphium sarpedon</i>	-	Very Common					1			3			
Common Evening Brown <i>Melanitis leda</i>	-	Common								4			
Common Five-ring <i>Ypthima baldus</i>	-	Very Common											3
Common Grass Yellow <i>Eurema hecabe</i>	-	Very Common	2	3	7		8			8	2		5
Common Jester <i>Symbrenthia lilaea</i>	-	Common				1				2			
Common Mormon <i>Papilio polytes</i>	-	Very Common									1		
Common Palmfly <i>Elymnias hypermnestra</i>	-	Common					2						
Common Sailer <i>Neptis hylas</i>	-	Very Common			1		3			4			
Common Sergeant <i>Neptis hylas</i>	-	Common								4			
Dark-brand Bush Brown <i>Mycalesis mineus</i>	-	Very Common			1					8			5
Glassy Tiger <i>Parantica aglea</i>	-	Very Common					1						
Great Mormon <i>Papilio memnon</i>	-	Very Common								3			
Indian Cabbage White <i>Pieris canidia</i>	-	Very Common	27			4	5			9	7		3
Lemon Emigrant <i>Catopsilia pomona</i>	-	Very Common	3										
Pale Grass Blue <i>Pseudozizeeria maha</i>	-	Very Common	2	2									



Species	Conservation and Protection Status <sup>1</sup>	Status in Hong Kong	Outside the Project Site							Within the Project Site			
			DA	GL	MW	PL	SHGL	SL	WL	DA	MW	PL	WL
Paris Peacock <i>Papilio paris</i>	-	Very Common							1	6			
Plains Cupid <i>Chilades pandava</i>	-	Uncommon		2			2			2			1
Plum Judy <i>Abisara echerius</i>	-	Very Common					4	5					
Red-base Jezebel <i>Delias pasithoe</i>	-	Very Common	10				9			14	7		4
Spangle <i>Papilio protenor</i>	-	Very Common	1							2			1
<b>Total No. of Species</b>			<b>8</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>9</b>	<b>3</b>	<b>15</b>	<b>5</b>		<b>2</b>	<b>8</b>

## Notes:

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- b. IUCN 2022: NT (Near Threatened); VU (Vulnerable); EN (Endangered); CR (Critically Endangered)
- c. China State Major Protection Status (CSMPS): II = Class II Protected Species in China
- d. CITES 2021: Listed in CITES Appendix II.
- e. Cap. 170: Wild Animals Protection Ordinance. All wild birds in Hong Kong are protected under Cap. 170.
- f. Cap. 586 = Protection of Endangered Species of Animals and Plants Ordinance.
- g. G, Status in HK follows AFCD

## 2. Habitat types: MW (Modified Watercourse) ; NW(Natural Watercourse); Artificial Pond (AP); DA (Developed Area) ; PL (Plantation); SL (Shrubland) ; WL (Woodland); GL (Grassland) ; SHGL (Shrubby Grassland)

**Table 6.** Abundance and Distribution of Odonates Species Recorded

Species	Conservation and Protection Status <sup>1</sup>	Status in Hong Kong	Outside the Project Site			
			AP	DA	MW	WL
Asian Amberwing <i>Brachythemis contaminata</i>	-	Abundant	6		2	
Black Marsh Skimmer <i>Indothemis carnatica</i>	-	Common			1	
Common Blue Skimmer <i>Orthetrum glaucum</i>	-	Abundant	2		7	2
Common Flangetail <i>Ictinogomphus pertinax</i>	-	Common	2			
Common Red Skimmer <i>Orthetrum prunosum</i>	-	Abundant	2	1	3	1
Crimson Darter <i>Crocothemis servilia servilia</i>	-	Abundant	2		1	
Crimson Dropwing <i>Trithemis aurora</i>	-	Abundant	1			
Evening Skimmer <i>Tholymis tillarga</i>	-	Common	1			
Green Skimmer <i>Orthetrum sabina sabina</i>	-	Abundant	2		1	
Indigo Dropwing <i>Trithemis festiva</i>	-	Abundant				2
Marsh Skimmer <i>Orthetrum luzonicum</i>	-	Abundant	3		2	
Pale-spotted Emperor <i>Anax guttatus</i>	-	Common	4			
Pied Percher <i>Neurothemis tullia tullia</i>	-	Common	0		1	
Russet Percher <i>Neurothemis fulvia</i>	-	Common	2			
Saddlebag Glider <i>Tramea virginia</i>	-	Abundant	4			1
Variegated Flutterer <i>Rhyothemis variegata arria</i>	-	Common	4			2
Wandering Glider <i>Pantala flavescens</i>	-	Abundant	10	11	2	6
<b>Total no. of species recorded</b>			<b>14</b>	<b>2</b>	<b>9</b>	<b>6</b>

Notes.

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b. IUCN 2022: NT (Near Threatened); VU (Vulnerable); EN (Endangered); CR (Critically Endangered)

c. China State Major Protection Status (CSMPS): II = Class II Protected Species in China

d. CITES 2021: Listed in CITES Appendix II.

e. Cap. 170: Wild Animals Protection Ordinance. All wild birds in Hong Kong are protected under Cap. 170.

f. Cap. 586 = Protection of Endangered Species of Animals and Plants Ordinance.

g. Status in HK follows AFCD

2. Habitat types: MW (Modified Watercourse) ; NW(Natural Watercourse); Artificial Pond (AP); Marsh/Reedbed (MA/RB); DA (Developed Area) ; PL (Plantation); SL (Shrubland) ; WL (Woodland); GL (Grassland) ; SHGL (Shrubby Grassland)

**Table 7. Abundance and Distribution of Aquatic Invertebrates Recorded**

Species	Conservation and Protection Status	Within Project Site	Outside the Project Site					
			Channelised Watercourse	Ditch	Drainage Channel	Minor Channelised Watercourse	Seasonal Stream	Perennial Stream
Apple Snail <i>Pomacea canaliculata</i>	-		+	+	+	+		
Backswimmer <i>Enithares</i> sp.	-		++					
Crab <i>Cryptopotamon anacoluthon</i>	IUCN(VU)					+		
Ram's Horn Snail <i>Gyraulus convexiusculus</i>	-			+	+			
Red-rimmed Melania <i>Melanoides tuberculata</i>	-		+	+		++		
River Snail <i>Sinotaia quadrata</i>	-				+			
Shrimp <i>Caridina serrata</i>	IUCN(NT)					+		
Skimmer Dragonfly Larvae Libellulidae	-			+				
<b>Total no. of species recorded</b>		<b>0</b>	<b>3</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>0</b>	<b>0</b>
Notes: +: species recorded within the monitoring station (no. of individuals from 1-10) ++: species commonly recorded within the monitoring station (no. of individuals from 11-20) +++: most abundant species recorded within monitoring station (no. of individuals from 21 and above) -: no species recorded								

**Table 8.** *Abundance and Distribution of Freshwater Fish Recorded*

Species	Within the Project Site	Outside the Project Site					
		Channelised Watercourse	Ditch	Drainage Channel	Minor Channelised Watercourse	Seasonal Stream	Perennial Stream
Dwarf Snakehead <i>Channa gachua</i>			+				
Notes: +: species recorded within the monitoring station (no. of individuals from 1-10) ++: species commonly recorded within the monitoring station (no. of individuals from 11-20) +++: most abundant species recorded within monitoring station (no. of individuals from 21 and above) -: no recorded species							