



Appendix 8.3: Fauna Species Recorded within the Assessment Area

Butterfly

Common Name	Scientific Name	Distribution in Hong Kong <sup>(1)</sup>	Level of Concern <sup>(2)</sup>	IUCN Red List <sup>(3)</sup>	Habitat Within Assessment Area												
					WL	MWL	PL	SL	GL	DAL	AAL	DA	VO	P	NWC	MWC	
Water Snow Flat	<i>Tagiades litigiosus litigiosus</i>	Common	-	-		+											
Chestnut Angle	<i>Odontoptilum angulatum angulatum</i>	Common	-	-		+											
Chestnut Bob	<i>Iambrix salsala salsala</i>	Uncommon	-	-		+											
Indian Palm Bob	<i>Suastus gremius gremius</i>	Uncommon	-	-				+									
Formosan Swift	<i>Borbo cinnara</i>	Common	-	-	+	+											
Contiguous Swift	<i>Polytremis lubricans lubricans</i>	Common	-	-													+
<b>Dark Swift</b>	<b><i>Caltoris cahira</i></b>	Rare	-	-													+
Common Bluebottle	<i>Graphium sarpedon sarpedon</i>	Very common	-	-	+												+
Common Jay	<i>Graphium doson axion</i>	Common	-	-		+											
Tailed Jay	<i>Graphium agamemnon agamemnon</i>	Common	-	-	+	+	+						+	+			+
Five-bar Swordtail	<i>Pathysa antiphates antiphates</i>	Common	-	-										+			
Red Helen	<i>Papilio helenus helenus</i>	Very common	-	-	+	+								+			+
Common Mormon	<i>Papilio polytes polytes</i>	Very common	-	-	+	+	+							+	+		+
Great Mormon	<i>Papilio memnon agenor</i>	Very common	-	-	+	+	+							+			+
Spangle	<i>Papilio protenor protenor</i>	Very common	-	-	+	+	+										+
Paris Peacock	<i>Papilio paris paris</i>	Very common	-	-			+							+			+
Painted Jezebel	<i>Delias hyparete hierte</i>	Uncommon	-	-										+			
Red-base Jezebel	<i>Delias pasithoe pasithoe</i>	Very common	-	-	+	+								+			
Common Gull	<i>Cepora nerissa nerissa</i>	Common	-	-										+			
Great Orange Tip	<i>Hebomoia glaucippe glaucippe</i>	Common	-	-	+	+								+			
Lemon Emigrant	<i>Catopsilia pomona pomona</i>	Common	-	-	+		+				+	+					
-	<i>Catopsilia sp.</i>	-	-	-		+				+			+				
-	<i>Eurema sp.</i>	-	-	-	++	+	+			+			+	+			+
Dark Cerulean	<i>Jamides bochus bochus</i>	Common	-	-	+									+	+		
<b>Metallic Cerulean</b>	<b><i>Jamides alecto alocina</i></b>	Very rare	-	-	+		+					+					
<b>Forget-me-not</b>	<b><i>Catochrysops strabo strabo</i></b>	Very rare	-	-		+	+							+			
Long-tailed Blue	<i>Lampides boeticus</i>	Common	-	-		+								+			+
Pale Grass Blue	<i>Pseudozizeeria maha serica</i>	Very common	-	-	+	+	+							+			
Common Hedge Blue	<i>Acytolepis puspa gisca</i>	Common	-	-		+									+		
Gram Blue	<i>Euchrysops cnejus cnejus</i>	Uncommon	-	-													+
Punchinello	<i>Zemeros flegyas flegyas</i>	Common	-	-		+											
Plum Judy	<i>Abisara echerius echerius</i>	Very common	-	-										+	+		
Common Evening Brown	<i>Melanitis leda leda</i>	Common	-	-		+											
Banded Tree Brown	<i>Lethe confusa confusa</i>	Common	-	-	+									+			
Common Palmfly	<i>Elymnias hypermnestra hainana</i>	Common	-	-		+								+			
Dark Brand Bush Brown	<i>Mycalesis mineus mineus</i>	Very common	-	-	+	+	+										
Common Five-ring	<i>Ypthima baldus baldus</i>	Very common	-	-			+										+
Tawny Rajah	<i>Charaxes bernardus bernardus</i>	Common	-	-										+			

Butterfly

Common Name	Scientific Name	Distribution in Hong Kong <sup>(1)</sup>	Level of Concern <sup>(2)</sup>	IUCN Red List <sup>(3)</sup>	Habitat Within Assessment Area												
					WL	MWL	PL	SL	GL	DAL	AAL	DA	VO	P	NWC	MWC	
Angled Castor	<i>Ariadne ariadne alterna</i>	Common	-	-								+					
Rustic	<i>Cupha erymanthis erymanthis</i>	Very common	-	-	++												+
Great Egg-fly	<i>Hypolimnas bolina kezia</i>	Common	-	-	+	+							+	+			
Common Sailer	<i>Neptis hylas hylas</i>	Very common	-	-		+											
Southern Sullied Sailer	<i>Neptis clinia susruta</i>	Common	-	-	+	+											
Short-banded Sailer	<i>Phaedyma columella columella</i>	Common	-	-										+			
Common Lascar	<i>Pantoporia hordonia</i>	Uncommon	-	-	+												
Common Mapwing	<i>Cyrestis thyodamas chinensis</i>	Common	-	-		+							+				
Red Ring Skirt	<i>Hestina assimilis assimilis</i>	Common	-	-		+											
Common Archduke	<i>Lexias pardalis</i>	-	-	-		+											
Glassy Tiger	<i>Parantica aglea melanooides</i>	Common	-	-	+												
Ceylon Blue Glassy Tiger	<i>Ideopsis similis similis</i>	Very common	-	-	+	+							+				
Blue Tiger	<i>Tirumala limniace limniace</i>	Common	-	-									+				
Common Tiger	<i>Danaus genutia genutia</i>	Common	-	-									+				+
Blue-spotted Crow	<i>Euploea midamus midamus</i>	Very common	-	-	+	+							+				+

Notes:

(1) AFCD (2019b). Hong Kong Biodiversity Database.

(2) Fellowes *et al.* (2002).

(3) IUCN (2020). IUCN Red List of Threatened Species. Version 2020.1.

Species of conservation importance is in bold type face

Code of Abundance: +=Rare; +=Occasional; +++=Common; ++++=Abundant; +++++=Dominant

WL=Woodland; MWL=Mixed Woodland; SL=Shrubland; PL=Plantation; GL=Grassland; DAL=Active Agricultural Land; AAL=Abandoned Agricultural Land; DA=Developed Area;

VO=Village/Orchard; P=Pond; NWC=Natural Watercourse; MWC=Modified Watercourse

**Appendix 8.3: Fauna Species Recorded within the Assessment Area**

**Odonate**

Common Name	Scientific Name	Distribution in Hong Kong <sup>(1)</sup>	Level of Concern <sup>(2)</sup>	IUCN Red List <sup>(3)</sup>	Habitat Within Assessment Area													
					WL	MWL	PL	SL	GL	DAL	AAL	DA	VO	P	NWC	MWC		
Common Blue Jewel	<i>Rhinocypha perforata</i>	Abundant	-	-	+												++	
Black-banded Gossamerwing	<i>Euphaea decorata</i>	Abundant	-	-													+	
Yellow Featherlegs	<i>Copera marginipes</i>	Abundant	-	-		+												+
Black Threadtail	<i>Prodasineura autumnalis</i>	Abundant	-	-									+					
Blue Percher	<i>Diplacodes trivialis</i>	Abundant	-	-				+										
Red-faced Skimmer	<i>Orthetrum chrysis</i>	Abundant	-	-													+	+
Common Blue Skimmer	<i>Orthetrum glaucum</i>	Abundant	-	-		+											+	+
Green Skimmer	<i>Orthetrum serapia</i>	Abundant	-	-														
Lesser Blue Skimmer	<i>Orthetrum triangulare triangulare</i>	Common	-	-	++	+											+	
Wandering Glider	<i>Pantala flavescens</i>	Abundant	-	-			++++		++				++				+++	
Indigo Dropwing	<i>Trithemis festiva</i>	Abundant	-	-													+	
<b>Emerald Cascader</b>	<b><i>Zygonyx iris insignis</i></b>	Abundant	PGC	-													+	

Notes:

(1) AFCD (2019b). Hong Kong Biodiversity Database.

(2) Fellowes *et al.* (2002): PGC: Potential Global Concern.

(3) IUCN (2020). IUCN Red List of Threatened Species. Version 2020.1.

Species of conservation importance is in bold type face

Code of Abundance: +=Rare; +=Occasional; +++=Common; ++++=Abundant; +++++=Dominant

WL=Woodland; MWL=Mixed Woodland; SL=Shrubland; PL=Plantation; GL=Grassland; DAL=Active Agricultural Land; AAL=Abandoned Agricultural Land; DA=Developed Area;

VO=Village/Orchard; P=Pond; NWC=Natural Watercourse; MWC=Modified Watercourse

**Appendix 8.3: Fauna Species Recorded within the Assessment Area**
**Amphibian**

Common Name	Scientific Name	Distribution in Hong Kong <sup>(1)</sup>	Level of Concern <sup>(2)</sup>	Protection Status in China <sup>(3)</sup>	China Red Data Book <sup>(4)</sup>	Red List of China's Vertebrates <sup>(5)</sup>	IUCN Red List <sup>(6)</sup>	Habitat Within Assessment Area											
								WL	MWL	PL	SL	GL	DAL	AAL	DA	VO	P	NWC	MWC
Common Toad	<i>Duttaphrynus melanostictus</i>	Widely distributed	-	-	-	-	-	+	+	+					+	+		+	
<b>Lesser Spiny Frog</b>	<b><i>Quasipaa exilispinosa</i></b>	Occurs throughout territory	PGC	-	-	Vulnerable	Vulnerable											+	+
Gunther's Frog	<i>Hylarana guentheri</i>	Widely distributed	-	-	-	-	-							+	+				
Brown Tree Frog	<i>Polypedates megacephalus</i>	Widely distributed	-	-	-	-	-	+										+	
Greenhouse Frog	<i>Eleutherodactylus planirostris</i>	-	-	-	-	-	-	+	+						+				

**Reptile**

Common Name	Scientific Name	Distribution in Hong Kong <sup>(1)</sup>	Level of Concern <sup>(2)</sup>	Protection Status in	China Red Data Book <sup>(4)</sup>	Red List of China's	IUCN Red List <sup>(6)</sup>	Habitat Within Assessment Area											
								WL	MWL	PL	SL	GL	DAL	AAL	DA	VO	P	NWC	MWC
Red-eared Slider	<i>Trachemys scripta</i>	Widely distributed and commonly found in reservoirs or ponds in urban parks	-	-	-	-	-								+			+	
Chinese Striped Terrapin	<i>Ocadia sinensis</i>	-	-	-	-	-	Endangered								+(7)				
<b>Four-clawed Gecko</b>	<b><i>Gehyra mutilata</i></b>	Widely but thinly distributed throughout Hong Kong	-	-	-	Vulnerable	-		+										
Chinese Gecko	<i>Gekko chinensis</i>	Very common and widely distributed	-	-	-	-	-	+							+	+			
Bowring's Gecko	<i>Hemidactylus bowringii</i>	Distributed throughout Hong Kong	-	-	-	-	-	+							+				
Changeable Lizard	<i>Calotes versicolor</i>	Widely distributed	-	-	-	-	-		+						+				+
Long-tailed Skink	<i>Eutropis longicaudata</i>	Widely distributed	-	-	-	-	-	+					+						+
<b>Indian Forest Skink</b>	<b><i>Sphenomorphus indicus</i></b>	Commonly distributed in woodlands in the eastern and central New Territories	LC	-	-	-	-												+
<b>Chinese Water Dragon</b>	<b><i>Physignathus cocincinus</i></b>	-	-	-	-	-	Vulnerable												+
-	<b><i>Enhydris spp.</i></b> <sup>(8)</sup>	-	-	-	-	-	-						+						
<b>Taiwan Kukri Snake</b>	<b><i>Oligodon formosanus</i></b>	Widely distributed	-	-	-	Near Threatened	-	+											

**Notes:**

(1) AFCD (2019b). Hong Kong Biodiversity Database.

(2) Fellowes *et al.* (2002): LC=Local Concern.

(3) List of Wild Animals Under Special State Protection

(4) Zhao *et al.* (1998). China Red Data Book of Endangered Animals. Amphibia and Reptilia.

(5) Jiang *et al.* (2016). Red List of China's Vertebrates

(6) IUCN (2020). IUCN Red List of Threatened Species. Version 2020.1.

(7) The individual(s) is artificially introduced/released to the habitat, thus it is not considered as species of conservation importance.

(8) All *Enhydris* spp. in Hong Kong are considered as species of conservation importance (either listed as "Local Concern" in Fellowes *et al.* (2002) or "Vulnerable" Jiang *et al.* (2016))

Species of conservation importance is in bold type face

Code of Abundance: +=Rare; ++=Occasional; +++=Common; ++++=Abundant; +++++=Dominant

WL=Woodland; MWL=Mixed Woodland; SL=Shrubland; PL=Plantation; GL=Grassland; DAL=Active Agricultural Land; AAL=Abandoned Agricultural Land; DA=Developed Area;

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Appendix 8.3: Fauna Species Recorded within the Assessment Area

Reptile

Common Name	Scientific Name	Distribution in Hong Kong <sup>(1)</sup>	Level of Concern <sup>(2)</sup>	Protection Status in China <sup>(3)</sup>	China Red Data Book <sup>(4)</sup>	Red List of China's Vertebrates <sup>(5)</sup>	IUCN Red List <sup>(6)</sup>	Habitat Within Assessment Area													
								WL	MWL	PL	SL	GL	DAL	AAL	DA	VO	P	NWC	MWC		
Red-eared Slider	<i>Trachemys scripta</i>	Widely distributed and commonly found in reservoirs or ponds in urban parks	-	-	-	-	-										+			+	
Chinese Striped Terrapin	<i>Ocadia sinensis</i>	-	-	-	-	-	Endangered										+(7)				
<b>Four-clawed Gecko</b>	<b><i>Gehyra mutilata</i></b>	Widely but thinly distributed throughout Hong Kong	-	-	-	Vulnerable	-		+												
Chinese Gecko	<i>Gekko chinensis</i>	Very common and widely distributed	-	-	-	-	-	+									+	+			
Bowring's Gecko	<i>Hemidactylus bowringii</i>	Distributed throughout Hong Kong	-	-	-	-	-	+									+				
Changeable Lizard	<i>Calotes versicolor</i>	Widely distributed	-	-	-	-	-		+								+				+
Long-tailed Skink	<i>Eutropis longicaudata</i>	Widely distributed	-	-	-	-	-	+						+							+
<b>Indian Forest Skink</b>	<b><i>Sphenomorphus indicus</i></b>	Commonly distributed in woodlands in the eastern and central New Territories	LC	-	-	-	-														+
<b>Chinese Water Dragon</b>	<b><i>Physignathus cocincinus</i></b>	-	-	-	-	-	Vulnerable														+
-	<b><i>Enhydryis spp.</i></b>	-	-	-	-	-	-							+							
<b>Taiwan Kukri Snake</b>	<b><i>Oligodon formosanus</i></b>	Widely distributed	-	-	-	Near Threatened	-	+													

Notes:

(1) AFCD (2019b). Hong Kong Biodiversity Database.

(2) Fellowes *et al.* (2002): LC=Local Concern.

(3) List of Wild Animals Under Special State Protection.

(4) Zhao *et al.* (1998). China Red Data Book of Endangered Animals. Amphibia and Reptilia.

(5) Jiang *et al.* (2016). Red List of China's Vertebrates

(6) IUCN (2020). IUCN Red List of Threatened Species. Version 2020.1.

(7) The individual(s) is artificially introduced/released to the habitat, thus it is not considered as species of conservation importance.

(8) All *Enhydryis spp.* in Hong Kong are considered as species of conservation importance (either listed as "Local Concern" in Fellowes *et al.* (2002) or "Vulnerable" Jiang *et al.* (2016))

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Appendix 8.3: Fauna Species Recorded within the Assessment Area

Mammal

Common Name	Scientific Name	Distribution in Hong Kong <sup>(3)</sup>	Level of Concern <sup>(4)</sup>	Protection Status in China <sup>(5)</sup>	China Red Data Book <sup>(6)</sup>	Red List of China's Vertebrates <sup>(7)</sup>	IUCN Red List <sup>(8)</sup>	Habitat Within Assessment Area												
								WL	MWL	PL	SL	GL	DAL	AAL	DA	VO	P	NWC	MWC	
Short-nosed Fruit Bat <sup>(1)</sup>	<i>Cynopterus sphinx</i>	Abundant	-	-	Indeterminate	Near Threatened	-		+	+						+				
Chinese Noctule <sup>(1)</sup>	<i>Nyctalus plancyi</i>	Common	PRC, (RC)	-	-	-	-			+										
Japanese Pipistrelle <sup>(1)</sup>	<i>Pipistrellus abramus</i>	Very Common	-	-	-	-	-		+	+					+	++	++			+
Least Pipistrelle <sup>(1)</sup>	<i>Pipistrellus tenuis</i>	Uncommon	-	-	-	Near Threatened	-			+						+				
Chinese Pipistrelle <sup>(1)</sup>	<i>Hypsugo pulveratus</i>	Rare	(LC)	-	-	Near Threatened	-			+						+				
Rhesus Macaque <sup>(1)(2)</sup>	<i>Macaca mulatta</i>	Common	-	Class II	Vulnerable	-	-	++								+				
Pallas's Squirrel <sup>(1)</sup>	<i>Callosciurus erythraeus</i>	Fairly widely distributed	-	-	-	-	-	+		+										

Notes:

- (1) Protected under Wild Animals Protection Ordinance (Cap. 170).
- (2) Protected under Protection of Endangered Species of Animals and Plants Ordinance (Cap. 586).
- (3) AFCD (2019b). Hong Kong Biodiversity Database.
- (4) Fellowes *et al.* (2002): RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern.
- (5) List of Wild Animals Under Special State Protection
- (6) Wang *et al.* (1998). China Red Data Book of Endangered Animals. Mammalia.
- (7) Jiang *et al.* (2016). Red List of China's Vertebrates.
- (8) IUCN (2020). IUCN Red List of Threatened Species. Version 2020.1.

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Appendix 8.3: Fauna Species Recorded within the Assessment Area

Aquatic Fauna

Scientific Name	Common Name	Family	Distribution in Hong Kong (1)	Level of Concern (3)	China Red Data Book (4)	Red List of China's Vertebrates (5)	IUCN Red List (6)	Sampling Points						Other NWC	Other MWC
								SP1	SP2	SP3	SP4	SP5	SP6		
<b>Insect</b>															
-	Mayfly (larvae)	Baetidae	Very common (2)	-	-	-	-	+		+++		+++	+++		
-	Mayfly (larvae)	Heptageniidae	Common (2)	-	-	-	-					+			
-	Mayfly (larvae)	Caenidae	-	-	-	-	-	+							
-	Backswimmer	Notonectidae	Very common (2)	-	-	-	-			+++			+	+	
<i>Ptilomera tigrina</i>	Waterskater/Water strider	Gerridae	Very common (2)	-	-	-	-					+		+	
<i>Metrocoris</i> sp.	Waterskater/Water strider	Gerridae	Very common (2)	-	-	-	-	+						+	
<i>Rhagovelia</i> sp.	Waterskater/Water strider	Gerridae	Common (2)	-	-	-	-	++				+		+	
-	Non-biting Midge	Chironomidae	Very common (2)	-	-	-	-	+		++					
-	Whirligig Beetle	Gyrinidae	Rare (2)	-	-	-	-			+					
-	Beetle	Scirtidae	Very common (2)	-	-	-	-							+	
-	Caddisfly	Helicopsychidae	Rare (2)	-	-	-	-			+		+			
-	Caddisfly	Odontoceridae	Common (2)	-	-	-	-					+			
-	Caddisfly	Hydropsychidae	Very common (2)	-	-	-	-			+					
-	True Fly (larvae)	Diptera	Very common (2)	-	-	-	-			+					
-	Mosquito (larvae)	Culicidae	-	-	-	-	-	+							
<i>Chironomus plumosus</i>	Blood Worm	Chironomidae	Abundant in polluted waters; Very common (2)	-	-	-	-						+		
<i>Anaciaeschna jaspidea</i>	Common Evening Hawker (larvae)	Aeshnidae	Common	-	-	-	Least Concern			+					
<i>Anax guttatus</i>	Pale-spotted Emperor (larvae)	Aeshnidae	Common	-	-	-	Least Concern			+					
<i>Ophiogomphus sinicus</i>	Chinese Hooktail (larvae)	Gomphidae	-	-	-	-	Data Deficient					+			
<i>Zygonyx iris insignis</i>	<b>Emerald Cascader (larvae)</b>	Libellulidae	Abundant	PGC	-	-	Least Concern	+							
<i>Polycanthagyna erythromelas</i>	<b>Tiger Hawker (larvae)</b>	Aeshnidae	Common	LC	-	-	Least Concern								+
<b>Crustacean</b>															
<i>Caridina</i> sp.	Atyid Shrimp	Atyidae	-	-	-	-	-	++							++
<i>Macrobrachium</i> sp.	-	Palaemonidae	Very common (2)	-	-	-	-							+	
<i>Cryptopotamon anacoluthon</i>	-	Cryptopotamon	Common (2); Endemic	PGC	-	-	Vulnerable							+	
<i>Eriocheir japonicus</i>	-	Varunidae	-	-	-	-	-					+		+	
<b>Amphibian</b>															
<i>Quasipaa exilispinosa</i>	<b>Lesser Spiny Frog (tadpole)</b>	Ranidae	Occurs throughout territory; Common (2)	PGC	-	Vulnerable	Vulnerable			++					



Aquatic Fauna

Scientific Name	Common Name	Family	Distribution in Hong Kong (1)	Level of Concern (3)	China Red Data Book (4)	Red List of China's Vertebrates (5)	IUCN Red List (6)	Sampling Points						Other NWC	Other MWC
								SP1	SP2	SP3	SP4	SP5	SP6		
<b>Freshwater Fish</b>															
<b><i>Parazacco spilurus</i></b>	<b>Predaceous Chub</b>	Cyprinidae	Common	-	Vulnerable	-	Data Deficient	+				+		++++	
<i>Gambusia affinis</i>	Mosquito Fish	Poeciliidae	Common	-	-	-	Least Concern					+			
<i>Poecilia reticulata</i>	Guppy	Poeciliidae	Common	-	-	-	-	+++				+++	+++		
<i>Oreochromis niloticus</i>	Nile Tilapia	Cichlidae	Common	-	-	-	-						+++		
<i>Mugil cephalus</i>	Grey Mullet	Mugilidae	Common	-	-	-	Least Concern							+++	
<i>Scatophagus argus</i>	Spotted Scat	Scatophagidae	Common	-	-	-	Least Concern							+	
<i>Siganus canaliculatus</i>	White-spotted Rabbit Fish	Siganidae	Common	-	-	-	-							+	
<i>Rhinogobius duospilus</i>	-	Gobiidae	Common	-	-	Data Deficient	-	+				+		++	
<i>Xiphophorus variatus</i>	Variable Platyfish	Poeciliidae	Common	-	-	-	Least Concern	++				+		+	
<i>Liniparhomaloptera disparis</i>	Broken-band Hillstream Loach	Balitoridae	Common	-	-	Data Deficient	Data Deficient							+	
<b>Gastropod</b>															
<i>Thiaridae</i> sp.	-	Thiaridae	Very common (2)	-	-	-	-					++	+++		
<i>Sulcospira hainanensis</i>	Large Stream Snail	Pachychilidae	Abundant and widespread; Very common (2)	-	-	-	Least Concern							+	

Notes:

- (1) AFCD (2019b). Hong Kong Biodiversity Database.
- (2) Dudgeon D. (2003). Hong Kong Field Guides: Hillstreams.
- (3) Fellowes *et al.* (2002). LC=Local Concern; PGC=Potential Global Concern.
- (4) Yue P. and Chen Y. (1998). China Red Data Book of Endangered Animals: Pisces.
- (5) Jiang *et al.* (2016). Red List of China's Vertebrates.
- (6) IUCN (2020). IUCN Red List of Threatened Species. Version 2020.1.

Species of conservation importance is in bold type face  
Code of Abundance: +=Rare; +=Occasional; +++=Common; ++++=Abundant; +++++=Dominant  
NWC=Natural Watercourse; MWC=Modified Watercourse