

## APPENDIX 13.4 REPTILES

**Appendix 13.4.1.** Reptile species recorded in the Study Area in this and/or previous studies. Where study boundaries of previous studies extended beyond the current study area boundary, only records from within the area covered by this study are included. Note that for some sources, lists are incomplete and/or only some records are attributed to a specific locality.

Species	Conservation and Protection Status <sup>1</sup>	Habitats Utilised	NENT Study - KTN <sup>2</sup>	Present Study - KTN	AFCD Biodiversity Database 2002 to June 2012- KTN	Hung and Pang (2008)	Wan (2010)	NENT Study - FLN <sup>2</sup>	Present Study - FLN	AFCD Biodiversity Database 2002 to June 2012 - FLN	Other Studies <sup>3</sup>
Reeves' Terrapin <i>Chinemys reevesii</i>	Cap. 170, GC, IUCN(EN), CRDB(CD)	Lowland wetlands			Y	Y	(Y)				Y
Three-banded Box Terrapin <i>Cuora trifasciata</i>	Cap. 170, Class II in China, App. II in CITES GC, IUCN(CE), CRDB(CE)	Wooded hill streams		Y							
Red-eared Slider <i>Trachemys scripta</i>	Cap. 170	Lowland wetlands				Y			Y		Y
Chinese Soft-shelled Turtle <i>Pelodiscus sinensis</i>	Cap. 170, GC, IUCN(VU), CRDB(VU)	Lowland wetlands		Y		Y					
Four-clawed Gecko <i>Gehyra mutilata</i>	-	Buildings, manmade structures		Y							
Chinese Gecko <i>Gekko chinensis</i>	-	Many lowland and upland habitats			Y		Y		Y	Y	
Tokay Gecko <i>Gekko gekko</i>	Class II in China, RC, CRDB(EN)	Not well known, rocky cliffs and boulders surrounded by forest or brush				Y					
Bowring's Gecko <i>Hemidactylus bowringii</i>	-	Buildings, manmade structures, shrubland, grassland	Y	Y	Y		Y		Y	Y	Y
Brook's Gecko <i>Hemidactylus brookii</i>	-	Buildings, manmade structures			Y						
Changeable Lizard <i>Calotes versicolor</i>	-	Lowland dry habitats	Y	Y			Y	Y	Y		Y
Common Water Monitor <i>Varanus salvator</i>	Cap. 170, Class I in China,	Lowland rivers and wetlands				Y					

Species	Conservation and Protection Status <sup>1</sup>	Habitats Utilised	NENT Study - KTN <sup>2</sup>	Present Study - KTN	AFCD Biodiversity Database 2002 to June 2012- KTN	Hung and Pang (2008)	Wan (2010)	NENT Study - FLN <sup>2</sup>	Present Study - FLN	AFCD Biodiversity Database 2002 to June 2012 - FLN	Other Studies <sup>3</sup>
	App. II in CITES RC, CRDB(CE/EW)										
Grass Lizard <i>Takydromus sexlineatus</i>	-	Lowland grassland, open areas							Y	Y	Y
Chinese Forest Skink <i>Ateuchosaurus chinensis</i>	-	Lowland woodland, shrubland, and agriculture		Y	Y						
Long-tailed Skink <i>Mabuya longicaudata</i>	-	Upland grassland and shrubland		Y	Y				Y		
Chinese Skink <i>Eumeces chinensis</i>	-	Lowland habitats		Y					Y		Y
Five-striped Blue-tailed Skink <i>Plestiodon elegans</i>	LC	Woodland edges									Y
Reeves' Smooth Skink <i>Scincella reevesii</i>	-	Many lowland and upland habitats	Y	Y	Y		Y		Y	Y	Y
Indian Forest Skink <i>Sphenomorphus indicus</i>	LC	Woodland									Y
Common Blind Snake <i>Ramphotyphlops braminus</i>	-	Lowland habitats			Y	Y	(Y)				Y
Burmese Python <i>Python bivittatus</i>	Cap. 170, Class I in China, App. II in CITES PRC, IUCN(VU)CRDB(C E)	Shrubland, woodland, mangrove				Y				Y	
Buff-striped Keelback <i>Amphiesma stolatum</i>	LC	Lowland wetlands			Y	Y					Y
Copperhead Racer <i>Elaphe radiata</i>	PRC, CRDB(EN)	Upland grassland and shrubland									Y
Chinese Water Snake <i>Enhydryis chinensis</i>	-	Lowland wetlands								Y	Y
Plumbeous Water Snake <i>Enhydryis plumbea</i>	-	Lowland wetlands			Y	Y	(Y)				Y
Common Wolf Snake <i>Lycodon aulicus</i>	-	Upland grassland and shrubland				Y					
Taiwan Kukri Snake <i>Oligodon formosanus</i>	-	Many lowland and upland habitats			Y		(Y)				
Banded Stream Snake <i>Opisthotropis balteata</i>	-	Clean, rocky streams								Y*	
White-spotted Slug Snake	-	Many lowland and								Y	

Species	Conservation and Protection Status <sup>1</sup>	Habitats Utilised	NENT Study - KTN <sup>2</sup>	Present Study - KTN	AFCD Biodiversity Database 2002 to June 2012- KTN	Hung and Pang (2008)	Wan (2010)	NENT Study - FLN <sup>2</sup>	Present Study - FLN	AFCD Biodiversity Database 2002 to June 2012 - FLN	Other Studies <sup>3</sup>
<i>Pareas margaritophorus</i>		upland habitats									
Indo-chinese Rat Snake <i>Ptyas korros</i>	PRC, CRDB(EN)	Open lowland habitats		Y		Y	#		Y		
Common Rat Snake <i>Ptyas mucosus</i>	App. II in CITES PRC, CRDB(EN)	Many lowland habitats			Y	Y	Y #		Y	Y	Y
Red-necked Keelback <i>Rhabdophis subminiatus</i>	-	Upland shrubland and woodland		Y	Y						
Checkered Keelback <i>Xenochrophis piscator</i>	-	Lowland wetlands	Y	Y	Y	Y	Y		Y	Y	
Banded Krait <i>Bungarus fasciatus</i>	RC, CRDB(EN)	Lowland wetlands		Y			(Y)				
Many-banded Krait <i>Bungarus multicinctus</i>	PRC, CRDB(VU)	Many lowland habitats, especially wetlands				Y	Y				Y
Chinese Cobra <i>Naja atra</i>	App. II in CITES PRC, CRDB(VU)	Many lowland and upland habitats except dense woodland and mountain grassland				Y		Y			Y
King Cobra <i>Ophiophagus hannah</i>	App. II in CITES PRC, IUCN(VU), CRDB(CE)	Many lowland and upland habitats				Y					
Bamboo Snake <i>Trimeresurus albolabris</i>	-	Many lowland and upland habitats except wetlands		Y	Y	Y					

**Notes:**

- Conservation and protection status refers to Cap 170, <http://www.sepa.gov.cn>, UNEP-WCMC (2012), Fellowes *et al.* (2002), IUCN (2013), CSIS (2013) and China Red Data Book (Zhao 1998).
  - Cap. 170 = Chapter 170 Wild Animals Protection Ordinance.
  - Conservation Status by Fellowes *et al.* (2002): GC = Global Concern; RC = Regional Concern; PRC = Potential Regional Concern.
  - Conservation Status by IUCN(2013): CE = Critically Endangered; EN = Endangered; VU = Vulnerable; LR/NT = Lower Risk/Near Threatened.
  - Conservation Status by China Red Data Book (Zhao 1998): CE/EW = Critically Endangered/Extinct in Wild; CE = Critically Endangered; EN = Endangered; CD = Conservation Dependent; VU = Vulnerable.
- Maunsell (2003).
- Arup (2010), Atkins (2010), Binnie, Black and Veatch (2002), Dudgeon and Corlett (2001), Maunsell (1997), Mott Macdonald (2010 & 2012), field survey data from Agreement No. CE/2008 (CE). Planning and Engineering Study on Development of Lok Ma Chau Loop - Investigation, 白鼻心 (2013b).

**Key:**

- Y = Species recorded in the corresponding study.  
X = Reported as having occurred in the past but no longer present by Hung & Pang (2008).  
(Y) = Reported as having been observed in other surveys by Wan (2010).  
^ = Suspected records.  
# = Skin of *Ptyas* sp. is (also) recorded.

\* = Also recorded in Kau Lung Hang EIS.

**Appendix 13.4.2.** Maximum count of reptile species recorded in the Kwu Tung North NDA during surveys and observations during further surveys for this study.

Species	Conservation Status <sup>1</sup>	Hong Kong Status (Karsen <i>et al.</i> , 1998)	Habitat Type <sup>2</sup>								
			WA	PO	CS	NS	SH	FSW/SecW	VA	WG	UR
Day-time Survey											
Chinese Soft-shelled Turtle <i>Pelodiscus sinensis</i>	GC, IUCN(VU), CRDB(VU)	Rare and Localised			√						
Changeable Lizard <i>Calotes versicolor</i>	-	Common and widespread			1		1	√			
Chinese Forest Skink <i>Ateuchosaurus chinensis</i>	-	Uncommon			1 #						
Long-tailed Skink <i>Mabuya longicaudata</i>	-	Common and widespread					1				
Chinese Skink <i>Plestiodon chinensis</i>	-	Common and widespread					1 ^				
Indo-chinese Rat Snake <i>Ptyas korros</i>	PRC, CRDB(EN)	Common			1 #						
Red-necked Keelback <i>Rhabdophis subminiatus</i>	-	Common and widespread									1
Checkered Keelback <i>Xenochrophis flavipunctatus</i>	-	Common		1						1	
Bamboo Snake <i>Cryptelytrops albolabris</i>	-	Common and widespread					1#				
Total number of reptile species recorded during day-time survey			0	1	4	0	4	1	0	1	1
Night-time Survey											
Three-banded Box Terrapin <i>Cuora trifasciata</i>	App. II in CITES GC, IUCN(CE), CRDB(CE)	Rare				1					
Four-clawed Gecko <i>Gehyra mutilata</i>	-	Uncommon							1		
Bowring's Gecko <i>Hemidactylus bowringii</i>	-	Very common	1								
Reeves' Smooth Skink <i>Scincella reevesii</i>	-	Common and widespread		1							
Banded Krait <i>Bungarus fasciatus</i>	RC, CRDB(EN)	Very uncommon		1							
Total number of reptile species recorded during night-time survey			1	2	0	1	0	0	1	0	0

**Note:**

1. Conservation and protection status refers to Cap 170, <http://www.sepa.gov.cn>, UNEP-WCMC (2012), Fellowes *et al.* (2002), IUCN (2013), CSIS (2013) and China Red Data Book (Zhao 1998).
  - a. Cap. 170 = Chapter 170 Wild Animals Protection Ordinance.
  - b. Conservation Status by Fellowes *et al.* (2002): GC = Global Concern; RC = Regional Concern; PRC = Potential Regional Concern.

c. Conservation Status by IUCN(2013): CE = Critically Endangered; EN = Endangered; VU = Vulnerable; LR/NT = Lower Risk/Near Threatened.

d. Conservation Status by China Red Data Book (Zhao 1998): CE/EW = Critically Endangered/Extinct in Wild; CE = Critically Endangered; EN = Endangered; CD = Conservation Dependent; VU = Vulnerable.

2. Habitats: WA = Wet Agricultural Land; PO = Pond; CS = Channelised Watercourse; NS = Natural Watercourse; SH = Shrubland; FSW/SecW = *Fung Shui Wood/Secondary Woodland*; VA = Village Area; WG = Waste Ground; UR = Urban/Residential Area. No records from habitat types not listed.

**Key:**

√ = Observed but not during transect surveys.

# = Dead individual sighted

^ = Individual sighted outside systematic surveys for reptiles.

**Appendix 13.4.3. Maximum count of reptile species recorded in the Fanling North NDA during surveys and observations during further surveys for this study.**

Species	Conservation Status <sup>1</sup>	Hong Kong Status (Karsen <i>et al.</i> , 1998)	Habitat Type <sup>2</sup>									
			DA	PO	MW	CS	NS	GR/SW G	PL/MP	OR	WG	UR
Day-time Survey												
Red-eared Slider <i>Trachemys scripta</i>	-	Common		2	3	2^	6^					
Changeable Lizard <i>Calotes versicolor</i>	-	Common and widespread	2			√			1	1		
Grass Lizard <i>Takydromus sexlineatus</i>	-	Uncommon									2	
Long-tailed Skink <i>Mabuya longicaudata</i>	-	Common and widespread	1^									1^
Chinese Skink <i>Eumeces chinensis</i>	-	Common and widespread				1						1
Reeves' Smooth Skink <i>Scincella reevesii</i>	-	Common and widespread							3^			
Indo-chinese Rat Snake <i>Ptyas korros</i>	PRC, CRDB(EN)	Common							1			
Common Rat Snake <i>Ptyas mucosus</i>	App. II in CITES PRC, CRDB(EN)	Common and widespread				√						
Checkered Keelback <i>Xenochrophis piscator</i>	-	Common				√						
Total number of reptile species recorded during day-time survey			2	1	1	5	1	0	3	1	1	2
Night-time Survey												
Chinese Gecko <i>Gekko chinensis</i>	-	Very common						1				
Bowring's Gecko <i>Hemidactylus bowringii</i>	-	Very common						1				
Total number of reptile species recorded during night-time survey			0	0	0	0	0	2	0	0	0	0

**Note:**

1. Conservation and protection status refers to Cap 170, <http://www.sepa.gov.cn>, UNEP-WCMC (2012), Fellowes *et al.* (2002), IUCN (2013), CSIS (2013) and China Red Data Book (Zhao 1998).

a. Cap. 170 = Chapter 170 Wild Animals Protection Ordinance.

b. Conservation Status by Fellowes *et al.* (2002): GC = Global Concern; RC = Regional Concern; PRC = Potential Regional Concern.

c. Conservation Status by IUCN (2013): CE = Critically Endangered; EN = Endangered; VU = Vulnerable; LR/NT = Lower Risk/Near Threatened.

- d. Conservation Status by China Red Data Book (Zhao 1998): CE/EW = Critically Endangered/Extinct in Wild; CE = Critically Endangered; EN = Endangered; CD = Conservation Dependent; VU = Vulnerable.
2. Habitats: DA = Dry Agricultural Land; CS = Channelised Watercourse; NS = Natural Watercourse; GR/SWG = Grassland/Seasonally Wet Grassland; PL/MP = Plantation/Mitigation Plantation; WG = Waste Ground; UR = Urban/Residential Area, MW= Mitigation Wetland. No records from habitat types not listed.
- Key:**
- √ = Observed but not during transect surveys.
  - ^ = Individual sighted outside the systematic surveys for reptiles.