

C. Summary of Herpetofauna Monitoring, Mammals and Insect Surveys

Table C1: Summary of herpetofauna monitoring data within the Survey Area (excluding the WRA)

Common Name	Scientific Name	Conservation Status ⁽¹⁾	Mean ⁽²⁾					
			May 2021	Jun 2021	Jul 2021	Aug 2021	Sep 2021	Oct 2021
Amphibians								
Asian Common Toad	<i>Bufo melanostictus</i>	-	3.0	5.0	10.0	14.5	0.0	0.0
Gunther's Frog	<i>Hylarana guentheri</i>	-	1.5	1.5	3.5	2.0	0.0	0.0
Paddy Frog	<i>Fejervarya limnocharis</i>	-	0.0	0.0	1.0	23.0	0.0	0.0
Brown Tree Frog	<i>Polypedates megacephalus</i>	-	3.0	1.5	5.0	1.0	0.0	0.0
Asiatic Painted Frog	<i>Kaloula pulchra pulchra</i>	-	0.5	0.5	3.0	1.0	0.0	0.0
Ornate Pygmy Frog	<i>Microhyla fissipes</i>	-	1.5	3.0	2.5	4.0	0.0	0.0
Greenhouse Frog	<i>Eleutherodactylus planirostris</i>	-	2.0	0.0	0.0	2.5	0.0	0.0
No. of Species Recorded			6	5	6	7	0	0
Reptiles								
Red-eared Slider	<i>Trachemys scripta elegans</i>	-	0.0	V	V	0.5	0.0	0.0
Bowring's Gecko	<i>Hemidactylus bowringii</i>	-	8.5	14.0	10.5	15.5	0.0	0.0
Changeable Lizard	<i>Calotes versicolor</i>	-	0.5	1.0	0.0	0.0	0.0	0.0
Long-tailed Skink	<i>Eutropis longicaudata</i>	-	0.0	0.5	0.5	0.0	0.0	0.0
Chinese Cobra	<i>Naja atra</i>	PRC	V	0.0	0.0	0.0	0.0	0.0
No. of Species Recorded			3	4	3	2	0	0

- (1) Conservation status follows that of Fellows that of Fellowes et al. (2002), Chan et al. (2005) and Karsen et al. (1998).
 (2) Refers to the mean number of individuals recorded in the reporting period (excluding the WRA)
 V Indicates the species is recorded outside regular surveys.

Table C2: Summary of herpetofauna monitoring in the WRA

Common Name	Scientific Name	Conservation Status ⁽¹⁾	Mean ⁽²⁾					
			May 2021	Jun 2021	Jul 2021	Aug 2021	Sep 2021	Oct 2021
Amphibians								
Asian Common Toad	<i>Bufo melanostictus</i>	-	1.5	5.0	6.5	9.0	1.0	0.0
Gunther's Frog	<i>Hylarana guentheri</i>	-	2.0	1.0	4.5	2.5	1.0	0.0
Paddy Frog	<i>Fejervarya limnocharis</i>	-	0.0	0.0	3.0	10.0	0.0	0.0
Brown Tree Frog	<i>Polypedates megacephalus</i>	-	0.0	1.0	1.0	2.0	0.0	0.0
Asiatic Painted Frog	<i>Kaloula pulchra pulchra</i>	-	0.0	1.0	1.0	0.5	0.0	0.0
Ornate Pygmy Frog	<i>Microhyla fissipes</i>	-	0.5	2.0	2.0	2.0	0.0	0.0
Greenhouse Frog	<i>Eleutherodactylus planirostris</i>	-	4.0	2.5	4.0	3.0	0.0	0.0
No. of Species Recorded			4	6	7	7	2	0
Reptiles								
Red-eared Slider	<i>Trachemys scripta elegans</i>	-	0.0	V	0.5	0.0	1.0	0.0
Bowring's Gecko	<i>Hemidactylus bowringii</i>	-	6.5	5.5	4.5	7.5	0.0	0.0
Changeable Lizard	<i>Calotes versicolor</i>	-	0.5	0.0	0.0	0.0	0.0	0.0
Long-tailed Skink	<i>Eutropis longicaudata</i>	-	0.5	1.5	V	0.0	0.0	0.0
Reeve's Smooth Skink	<i>Scincella reevesii</i>	-	0.0	1.0	0.5	1.0	0.0	0.0
Checkered Keelback	<i>Xenochrophis flavipunctatus</i>	-	V	V	0.0	0.0	0.0	0.0
Many-banded Krait	<i>Bungarus multicinctus multicinctus</i>	-	0.0	0.0	0.5	0.0	0.0	0.0
Chinese Cobra	<i>Naja atra</i>	PRC	V	1.0	0.0	0.0	0.0	0.0
No. of Species Recorded			5	6	5	2	1	0

(1) Conservation status follows that of Fellows that of Fellowes et al. (2002), Chan et al. (2005) and Karsen et al. (1998).

(2) Refers to the mean number of individuals recorded in the reporting period at WRA.

V Indicates the species is recorded outside regular surveys.

Table C3: Summary of mammal monitoring in the Survey Area (excluding the WRA)

Common Name	Scientific Name	Conservation Status ⁽¹⁾	Max ⁽²⁾					
			May 2021	Jun 2021	Jul 2021	Aug 2021	Sep 2021	Oct 2021
Mammal								
No records								
No. of Species Recorded			0	0	0	0	0	0

- (1) Conservation status follows that of Fellows et al. (2002) and Shek (2006).
- (2) Refers to the maximum number of individuals recorded in each month in the survey area (excluding WRA).
- V Indicates the species is recorded outside regular surveys.

Table C4: Summary of mammal monitoring in the WRA

Common Name	Scientific Name	Conservation Status ⁽¹⁾	Max ⁽²⁾					
			May 2021	Jun 2021	Jul 2021	Aug 2021	Sep 2021	Oct 2021
Mammal								
Japanese Pipistrelle	<i>Pipistrellus abramus</i>	-	0	0	3	0	0	0
Leopard Cat	<i>Prionailurus bengalensis</i>	-	0	0	V	0	0	0
No. of Species Recorded			0	0	2	0	0	0

- (1) Conservation status follows that of Fellows et al. (2002) and Shek (2006).
- (2) Refers to the maximum number of individuals recorded in each month at WRA.
- V Indicates the species is recorded outside regular surveys.

Table C5: Summary of dragonfly and butterfly monitoring in the Survey Area (excluding the WRA)

Common Name	Scientific Name	Conservation Status ⁽¹⁾	Mean ⁽²⁾						
			May 2021	Jun 2021	Jul 2021	Aug 2021	Sep 2021	Oct 2021	
Odonate									
Wandering Midget	<i>Agriocnemis pygmaea</i>	-	0.0	0.0	0.0	2.0	0.0	0.0	
Orange-tailed Sprite	<i>Ceriagrion auranticum ryukyuanum</i>	-	0.5	0.0	0.0	0.0	0.0	0.0	
Common Bluetail	<i>Ischnura senegalensis</i>	-	190.5	19.5	0.0	3.5	1.0	5.0	
Pale-spotted Emperor	<i>Anax guttatus</i>	-	1.0	0.0	3.0	0.5	0.0	1.0	
Common Flangetail	<i>Ictinogomphus pertinax</i>	-	1.5	0.5	1.0	5.0	3.0	4.0	
Golden Flangetail	<i>Sinictinogomphus clavatus</i>	-	3.5	1.5	0.0	0.5	0.0	0.0	
Regal Pond Cruiser	<i>Epopthalmia elegans</i>	-	0.5	0.5	0.5	0.5	1.0	1.0	
Blue Dasher	<i>Brachydiplax chalybea flavovittata</i>	-	0.0	0.0	0.0	0.5	0.0	0.0	
Asian Amberwing	<i>Brachythemis contaminata</i>	-	22.0	26.0	29.0	3.5	1.0	5.0	
Crimson Darter	<i>Crocothemis servilia servilia</i>	-	0.0	1.5	3.5	10.0	2.0	1.0	
Amber-winged Glider	<i>Hydrobasileus croceus</i>	-	0.0	0.0	0.5	0.0	0.0	0.0	
Coastal Glider	<i>Macrodiplax cora</i>	LC	0.0	0.0	2.0	1.5	2.0	1.0	
Green Skimmer	<i>Orthetrum sabina sabina</i>	-	34.5	17.0	9.0	12.5	11.0	25.0	
Wandering Glider	<i>Pantala flavescens</i>	-	24.5	6.0	29.5	30.0	5.0	12.0	
Pied Skimmer	<i>Pseudothemis zonata</i>	-	1.0	0.0	0.0	0.0	0.0	0.0	
Variiegated Flutterer	<i>Rhyothemis variegata arria</i>	-	67.0	41.5	16.0	26.5	7.0	13.0	
Saddlebag Glider	<i>Tramea virginia</i>	-	6.5	3.5	1.0	0.0	1.0	4.0	
Scarlet Basker	<i>Urothemis signata signata</i>	LC	0.0	0.0	0.0	1.0	7.0	2.0	
Emerald Cascader	<i>Zygonyx iris insignis</i>	PGC	0.0	0.0	0.0	0.5	0.0	0.0	
No. of Species Recorded			12	10	11	15	11	12	
Butterfly									
Plain Tiger	<i>Danaus chrysippus</i>	-	0.0	0.5	0.0	0.0	1.0	3.0	
Common Tiger	<i>Danaus genutia</i>	-	0.0	0.0	0.0	0.0	1.0	0.0	
Blue-spotted Crow	<i>Euploea midamus midamus</i>	-	0.0	0.0	0.0	1.0	0.0	1.0	

Butterfly			May 2021	Jun 2021	Jul 2021	Aug 2021	Sep 2021	Oct 2021
Lemon Pansy	<i>Junonia lemonias lemonias</i>	-	0.0	0.0	0.5	0.0	0.0	0.0
Great Egg-fly	<i>Hypolimnias bolina kezia</i>	-	1.0	1.0	1.5	2.0	2.0	2.0
Common Sailor	<i>Neptis hylas hylas</i>	-	0.0	1.0	0.0	0.0	0.0	0.0
Red Ring Skirt	<i>Hestina assimilis assimilis</i>	-	0.0	0.0	0.0	1.0	0.0	2.0
Angled Castor	<i>Ariadne ariadne atternus</i>	-	1.0	0.0	0.0	0.0	0.0	0.0
Common Palmfly	<i>Elymnias hypermnestra hainana</i>	-	0.0	0.0	0.0	0.5	1.0	1.0
Dark Brand Bush Brown	<i>Mycalesis mineus mineus</i>	-	1.5	2.5	0.0	0.5	4.0	1.0
Long-tailed Blue	<i>Lampides boeticus</i>	-	0.0	0.0	0.0	0.0	0.0	1.0
Pale Grass Blue	<i>Pseudozizeeria maha serica</i>	-	6.5	6.0	2.0	4.5	3.0	10.0
Tiny Grass Blue	<i>Zizula hylax</i>	-	0.5	0.0	0.0	0.0	0.0	2.0
Tailless Line Blue	<i>Prosotas dubiosa</i>	-	0.0	0.0	0.0	0.0	0.0	1.0
Dark Cerulean	<i>Jamides bochus bochus</i>	-	1.0	0.0	0.0	0.0	0.0	0.0
Red-base Jezebel	<i>Delias pasithoe pasithoe</i>	-	2.5	0.0	1.0	0.5	1.0	1.0
Indian Cabbage White	<i>Pieris canidia canidia</i>	-	0.5	0.0	0.0	0.0	0.0	0.0
Small Cabbage White	<i>Pieris rapae crucivora</i>	-	1.5	0.0	0.0	0.0	0.0	0.0
Lemon Emigrant	<i>Catopsilia pomona pomona</i>	-	0.5	1.0	1.0	4.0	9.0	12.0
Common Grass Yellow	<i>Eurema hecabe hecabe</i>	-	0.5	3.0	1.0	0.0	0.0	1.0
Three-spot Grass Yellow	<i>Eurema blanda hylama</i>	-	0.5	0.5	0.0	0.0	0.0	0.0
Common Bluebottle	<i>Graphium sarpedon sarpedon</i>	-	0.0	0.0	0.0	0.5	1.0	2.0
Common Mime	<i>Chilasa clytia clytia</i>	-	0.0	0.0	0.0	0.5	2.0	0.0
Lime Butterfly	<i>Papilio demoleus</i>	-	0.0	0.0	0.0	0.0	0.0	1.0
Red Helen	<i>Papilio helenus</i>	-	0.0	0.0	0.0	0.5	0.0	0.0
Common Mormon	<i>Papilio polytes polytes</i>	-	2.5	2.5	1.0	1.0	8.0	3.0
Spangle	<i>Papilio protenor</i>	-	0.0	0.0	0.0	0.5	3.0	1.0
Paris Peacock	<i>Papilio paris</i>	-	1.0	0.0	0.0	0.0	0.0	0.0
No. of Species Recorded			14	9	7	13	12	17

(1) Conservation status follows that of Fellows et al. (2002) and Shek (2006), Lo & Hui (2004), Wilson (2004) and Young & Yiu (2002).

(2) Refers to the mean number of individuals recorded in each month in the survey area (excluding the WRA)

Table C6: Summary of dragonfly and butterfly monitoring in the WRA

Common Name	Scientific Name	Conservation Status ⁽¹⁾	Mean ⁽²⁾						
			May 2021	Jun 2021	Jul 2021	Aug 2021	Sep 2021	Oct 2021	
Odonate									
Wandering Midget	<i>Agriocnemis pygmaea</i>	-	0.0	V	0.0	1.0	0.0	0.0	
Orange-tailed Sprite	<i>Ceriagrion auranticum ryukyuanum</i>	-	0.0	0.0	0.5	1.5	0.0	1.0	
Common Bluetail	<i>Ischnura senegalensis</i>	-	10.5	3.0	3.0	2.0	0.0	2.0	
Blue Sprite	<i>Pseudagrion microcephalum</i>	-	0.0	0.0	1.0	1.0	0.0	0.0	
Yellow Featherlegs	<i>Coperia marginipes</i>	-	0.0	0.0	0.5	0.5	0.0	1.0	
Pale-spotted Emperor	<i>Anax guttatus</i>	-	3.0	2.0	5.0	6.5	0.0	1.0	
Lesser Emperor	<i>Anax parthenope julius</i>	-	0.0	0.0	0.5	1.0	0.0	0.0	
Common Flangetail	<i>Ictinogomphus pertinax</i>	-	0.5	1.0	4.0	3.5	0.0	0.0	
Golden Flangetail	<i>Sinictinogomphus clavatus</i>	-	1.0	0.5	0.0	0.0	0.0	0.0	
Regal Pond Cruiser	<i>Epopthalmia elegans</i>	-	0.0	0.5	1.0	1.0	3.0	1.0	
Asian Pintail	<i>Acisoma panorpoides</i>	-	0.0	0.0	0.0	0.5	0.0	0.0	
Blue Dasher	<i>Brachydiplax chalybea flavovittata</i>	-	5.5	4.0	8.5	19.5	15.0	14.0	
Asian Amberwing	<i>Brachythemis contaminata</i>	-	2.0	2.0	4.0	3.0	3.0	7.0	
Crimson Darter	<i>Crocothemis servilia servilia</i>	-	5.0	6.0	11.5	14.0	4.0	2.0	
Blue Percher	<i>Diplacodes trivialis</i>	-	0.5	0.0	0.0	0.0	0.0	0.0	
Amber-winged Glider	<i>Hydrobasileus croceus</i>	-	0.0	0.0	1.0	1.5	0.0	0.0	
Coastal Glider	<i>Macrodiplax cora</i>	LC	0.0	0.0	2.0	1.5	0.0	0.0	
Pied Percher	<i>Neurothemis tullia tullia</i>	-	13.0	0.5	5.5	5.0	17.0	11.0	
Mangrove Skimmer	<i>Orthetrum poecilops</i>	GC, VU	0.5	0.0	0.0	0.0	0.0	0.0	
Common Red Skimmer	<i>Orthetrum pruinosum neglectum</i>	-	0.0	0.0	0.5	0.0	0.0	0.0	
Green Skimmer	<i>Orthetrum sabina sabina</i>	-	14.5	5.0	6.0	9.0	12.0	16.0	
Wandering Glider	<i>Pantala flavescens</i>	-	9.0	2.0	14.0	27.5	2.0	37.0	
Pied Skimmer	<i>Pseudothemis zonata</i>	-	2.0	3.0	2.5	2.5	0.0	0.0	
Ruby Darter	<i>Rhodothemis rufa</i>	LC	0.5	1.0	2.5	3.0	0.0	0.0	
Variegated Flutterer	<i>Rhyothemis variegata arria</i>	-	16.0	39.0	29.5	30.5	16.0	14.0	

Common Name	Scientific Name	Conservation Status ⁽¹⁾	Mean ⁽²⁾						
Evening Skimmer	<i>Tholymis tillarga</i>	-	3.5	5.0	4.0	3.0	3.0	1.0	
Saddlebag Glider	<i>Tramea virginia</i>	-	6.0	5.0	2.5	2.5	4.0	5.0	
Scarlet Basker	<i>Urothemis signata signata</i>	LC	1.5	0.5	0.0	1.0	4.0	2.0	
Dingy Dusk-darter	<i>Zyxomma petiolatum</i>	-	1.5	0.5	0.5	0.5	0.0	1.0	
No. of Species Recorded			19	19	23	25	11	16	
Butterfly			May 2021	Jun 2021	Jul 2021	Aug 2021	Sep 2021	Oct 2021	
Blue Tiger	<i>Tirumala limniace</i>	-	0.0	0.0	0.5	0.5	0.0	0.0	
Common Tiger	<i>Danaus genutia</i>	-	0.0	0.0	0.0	0.0	0.0	1.0	
Blue-spotted Crow	<i>Euploea midamus midamus</i>	-	0.5	0.0	0.5	1.5	1.0	0.0	
Common Indian Crow	<i>Euploea core amydone</i>	-	0.0	0.0	0.5	0.0	0.0	0.0	
Lemon Pansy	<i>Junonia lemonias lemonias</i>	-	0.0	0.0	0.5	0.0	0.0	0.0	
Great Egg-fly	<i>Hypolimnas bolina kezia</i>	-	0.5	0.5	2.0	3.0	7.0	8.0	
Common Sailor	<i>Neptis hylas hylas</i>	-	0.0	0.5	0.5	1.0	1.0	1.0	
Red Ring Skirt	<i>Hestina assimilis assimilis</i>	-	0.0	0.0	1.0	4.0	0.0	4.0	
Southern Sullied Sailer	<i>Neptis clinia susruta</i>	-	0.0	0.0	0.0	0.0	0.0	1.0	
Danaid Egg-fly	<i>Hypolimnas misippus</i>	LC	1.5	0.0	0.0	0.0	0.0	0.0	
Common Palmfly	<i>Elymnias hypermnestra hainana</i>	-	0.0	0.5	0.0	0.5	0.0	0.0	
Dark Brand Bush Brown	<i>Mycalesis mineus mineus</i>	-	0.5	0.5	2.5	2.0	4.0	4.0	
South China Bush Brown	<i>Mycalesis zonata</i>	-	0.0	0.0	0.0	0.0	2.0	1.0	
Chocolate Royal	<i>Remelana jangala mudra</i>	-	0.0	0.0	0.0	0.0	2.0	0.0	
Gram Blue	<i>Euchrysops cnejus</i>	-	0.0	0.0	0.0	0.0	0.0	1.0	
Long-tailed Blue	<i>Lampides boeticus</i>	-	1.5	0.0	0.0	0.0	0.0	1.0	
Pale Grass Blue	<i>Pseudozizeeria maha serica</i>	-	7.0	9.0	5.5	7.5	9.0	8.0	
Lesser Grass Blue	<i>Zizina otis</i>	-	0.0	1.0	2.0	2.0	0.0	0.0	
Tiny Grass Blue	<i>Zizula hylax</i>	-	1.5	0.5	0.5	1.5	12.0	11.0	
Tailless Line Blue	<i>Prosotas dubiosa</i>	-	3.5	3.0	2.0	0.0	7.0	8.0	
Dark Cerulean	<i>Jamides bochus bochus</i>	-	0.0	0.5	0.0	0.0	0.0	0.0	
Red-base Jezebel	<i>Delias pasithoe pasithoe</i>	-	0.5	0.0	0.5	0.5	1.0	2.0	

Butterfly			May 2021	Jun 2021	Jul 2021	Aug 2021	Sep 2021	Oct 2021
Small Cabbage White	<i>Pieris rapae crucivora</i>	-	2.0	0.0	0.0	0.0	0.0	0.0
Lemon Emigrant	<i>Catopsilia pomona pomona</i>	-	7.0	1.0	1.0	1.5	3.0	2.0
Common Grass Yellow	<i>Eurema hecabe hecabe</i>	-	2.5	2.0	2.5	4.0	0.0	0.0
Three-spot Grass Yellow	<i>Eurema blanda hylama</i>	-	2.0	0.5	0.5	1.0	5.0	5.0
Common Jay	<i>Graphium doson axion</i>	-	0.0	0.0	0.0	0.0	1.0	0.0
Tailed Jay	<i>Graphium agamemnon agamemnon</i>	-	0.0	0.0	0.0	0.0	0.0	1.0
Common Mime	<i>Chilasa clytia clytia</i>	-	1.0	0.5	0.5	0.5	6.0	5.0
Lime Butterfly	<i>Papilio demoleus</i>	-	0.0	1.0	0.0	0.0	0.0	0.0
Common Mormon	<i>Papilio polytes polytes</i>	-	1.5	0.5	3.5	2.5	2.0	2.0
Spangle	<i>Papilio protenor</i>	-	0.0	0.0	0.0	0.0	0.0	1.0
Dart	<i>Potanthus sp.</i>	-	0.5	0.5	0.5	0.0	0.0	0.0
Formosan Swift	<i>Borbo cinnara</i>	-	0.0	1.0	0.0	0.0	0.0	0.0
Conjoined Swift	<i>Pelopidas conjunctus</i>	-	0.0	0.0	0.5	0.5	0.0	0.0
Small Branded Swift	<i>Pelopidas mathias oberthueri</i>	-	0.0	0.5	0.0	0.0	0.0	0.0
Rare Swift	<i>Parnara ganga</i>	-	0.0	0.5	0.0	0.0	0.0	0.0
Colon Swift	<i>Caltoris bromus</i>	-	0.0	0.5	0.5	0.5	1.0	1.0
Dark Swift	<i>Caltoris cahira</i>	-	0.0	0.0	0.0	0.5	1.0	0.0
Chinese Dart	<i>Potanthus confucius confucius</i>	-	0.0	0.0	0.0	0.0	0.0	1.0
Indian Palm Bob	<i>Suastus gremius gremius</i>	-	0.0	0.0	0.5	0.0	0.0	0.0
Banana Skipper	<i>Erionota torus</i>	-	0.5	0.0	0.0	0.0	0.0	0.0
No. of Species Recorded			17	20	22	19	17	21

(1) Conservation status follows that of Fellowes et al. (2002), Lo & Hui (2004), Wilson (2004) and Young & Yiu (2002).

(2) Refers to the mean number of individuals recorded in each month in the survey area at WRA