

## J. Summary of Herpetofauna, Mammal and Insect Surveys conducted

**Table J1: Summary of herpetofauna monitoring in the Survey Area (excluding the WRA)**

Species Name	Scientific Name	Conservation Status <sup>(1)</sup>	Jun 2023 Occurrence <sup>(2)</sup>	Jun 2023 Mean <sup>(3)</sup>	Records Outside Surveys <sup>(4)</sup>
<b>Amphibian</b>	<b>No. of species recorded:</b>	<b>5</b>			
Asian Common Toad	<i>Bufo melanostictus</i>	-	2	3.5	0
Gunther's Frog	<i>Hylarana guentheri</i>	-	2	2.0	0
Brown Tree Frog	<i>Polypedates megacephalus</i>	-	1	2.5	0
Asiatic Painted Frog	<i>Kaloula pulchra pulchra</i>	-	1	0.5	0
Ornate Pygmy Frog	<i>Microhyla fissipes</i>	-	1	1.0	0
Species Name	Scientific Name	Conservation Status <sup>(1)</sup>	Jun 2023 Occurrence <sup>(2)</sup>	Jun 2023 Mean <sup>(3)</sup>	Records Outside Surveys <sup>(4)</sup>
<b>Reptile</b>	<b>No. of species recorded:</b>	<b>1</b>			
Bowring's Gecko	<i>Hemidactylus bowringii</i>	-	1	5.5	0

Note:

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

(2) Indicates number of surveys recorded within the reporting period.

(3) Refers to the mean number of individuals recorded in the reporting period (excluding the WRA).

(4) Includes observations during other surveys and/or site visits.

(5) Two regular surveys and seven outside surveys were conducted.

V Indicates the species is recorded outside regular surveys

**Table J2: Summary of herpetofauna monitoring in the WRA**

Species Name	Scientific Name	Conservation Status <sup>(1)</sup>	Jun 2023 Occurrence <sup>(2)</sup>	Jun 2023 Mean <sup>(3)</sup>	Records Outside Surveys <sup>(4)</sup>
<b>Amphibian</b>	<b>No. of species recorded:</b>	<b>5</b>			
Asian Common Toad	<i>Bufo melanostictus</i>	-	1	1.5	0
Gunther's Frog	<i>Hylarana guentheri</i>	-	2	2.5	0
Brown Tree Frog	<i>Polypedates megacephalus</i>	-	1	1.5	0
Asiatic Painted Frog	<i>Kaloula pulchra pulchra</i>	-	1	0.5	0
Ornate Pygmy Frog	<i>Microhyla fissipes</i>	-	1	2.5	0

Species Name	Scientific Name	Conservation Status <sup>(1)</sup>	Jun 2023 Occurrence <sup>(2)</sup>	Jun 2023 Mean <sup>(3)</sup>	Records Outside Surveys <sup>(4)</sup>
<b>Reptile</b>	<b>No. of species recorded:</b>	<b>2</b>			
Bowring's Gecko	<i>Hemidactylus bowringii</i>	-	2	5.5	0
Long-tailed Skink	<i>Eutropis longicaudata</i>	-	1	0.5	0

Note:

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

(2) Indicates number of surveys recorded within the reporting period.

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

(4) Includes observations during other surveys and/or site visits.

(5) Two regular surveys and 21 outside surveys were conducted.

V Indicates the species is recorded outside regular surveys

**Table J3: Summary of mammal monitoring in the Survey Area (excluding the WRA)**

Species Name	Scientific Name	Conservation Status <sup>(1)</sup>	Jun 2023 Occurrence <sup>(2)</sup>	Jun 2023 Max <sup>(3)</sup>	Records Outside Surveys <sup>(4)</sup>
<b>Mammal</b>	<b>No. of species recorded:</b>	<b>2</b>			
Short-nosed Fruit Bat	<i>Cynopterus sphinx</i>	-	1	1	0
Japanese Pipistrelle	<i>Pipistrellus abramus</i>	-	1	5	0

Note:

(1) Conservation status follows that of Fellowes *et al.* (2002) and Shek (2006).

(2) Indicates number of surveys recorded within the reporting period.

(3) Refers to the maximum number of individuals recorded in the reporting period (excluding the WRA).

(4) Includes observations during other surveys and/or site visits.

(5) Nine regular surveys were conducted.

V Indicates the species is recorded outside regular surveys

**Table J4: Summary of mammal monitoring in the WRA**

Species Name	Scientific Name	Conservation Status <sup>(1)</sup>	Jun 2023 Occurrence <sup>(2)</sup>	Jun 2023 Max <sup>(3)</sup>	Records Outside Surveys <sup>(4)</sup>
<b>Mammal</b>	<b>No. of species recorded:</b>	<b>2</b>			
Short-nosed Fruit Bat	<i>Cynopterus sphinx</i>	-	1	3	0
Japanese Pipistrelle	<i>Pipistrellus abramus</i>	-	1	5	0

Note:

(1) Conservation status follows that of Fellowes *et al.* (2002) and Shek (2006).

(2) Indicates number of surveys recorded within the reporting period.

(3) Refers to the maximum number of individuals recorded in the reporting period in the WRA.

(4) Includes observations during other surveys and/or site visits.

(5) Nine regular surveys and 14 outside surveys were conducted

V Indicates the species is recorded outside regular surveys

**Table J5: Summary of dragonflies (odonata) and butterfly monitoring in the Survey Area (excluding the WRA)**

Species Name	Scientific Name	Conservation Status <sup>(1)</sup>	Jun 2023 Occurrence <sup>(2)</sup>	Jun 2023 Max <sup>(3)</sup>	Records Outside Surveys <sup>(4)</sup>
<b>Odonata</b>	<b>No. of species recorded:</b>	<b>10</b>			
Wandering Midget	<i>Agriocnemis pygmaea</i>	-	1	0.5	0
Common Bluetail	<i>Ischnura senegalensis</i>	-	2	45.0	0
Pale-spotted Emperor	<i>Anax guttatus</i>	-	1	1.0	0
Golden Flangetail	<i>Sinictinogomphus clavatus</i>	-	1	0.5	0
Asian Amberwing	<i>Brachythemis contaminata</i>	-	2	13.5	0
Green Skimmer	<i>Orthemis sabina</i>	-	2	7.0	0
Wandering Glider	<i>Pantala flavescens</i>	-	2	12.5	0
Pied Skimmer	<i>Pseudothemis zonata</i>	-	1	1.0	0
Variegated Flutterer	<i>Rhyothemis variegata arria</i>	-	2	34.0	0
Saddlebag Glider	<i>Tramea virginia</i>	-	1	3.0	0
Species Name	Scientific Name	Conservation Status <sup>(1)</sup>	Jun 2023 Occurrence <sup>(2)</sup>	Jun 2023 Mean <sup>(3)</sup>	Records Outside Surveys <sup>(4)</sup>
<b>Butterflies</b>	<b>No. of species recorded:</b>	<b>14</b>			
Great Egg-fly	<i>Hypolimnas bolina kezia</i>	-	2	1.5	0
Common Sailor	<i>Neptis hylas hylas</i>	-	2	1.5	0
Red Ring Skirt	<i>Hestina assimilis assimilis</i>	-	1	1.0	0
Dark Brand Bush Brown	<i>Mycalopsis mineus mineus</i>	-	2	1.0	0
Long-banded Silverline	<i>Spindasis lohita</i>	-	1	0.5	0
Long-tailed Blue	<i>Lampides boeticus</i>	-	1	0.5	0
Pale Grass Blue	<i>Pseudozizeeria maha serica</i>	-	2	9.0	0
Tiny Grass Blue	<i>Zizula hylax</i>	-	1	0.5	0
Red-base Jezebel	<i>Delias pasithoe pasithoe</i>	-	1	2.0	0
Indian Cabbage White	<i>Pieris canidia canidia</i>	-	1	0.5	0
Lemon Emigrant	<i>Catopsilia pomona pomona</i>	-	1	0.5	0
Common Grass Yellow	<i>Eurema hecabe hecabe</i>	-	1	3.0	0
Common Mormon	<i>Papilio polytes polytes</i>	-	2	2.0	0
Paris Peacock	<i>Papilio paris</i>	-	1	0.5	0

Note:

- (1) Conservation status follows that of Fellowes *et al.* (2002), Lo & Hui (2004), Tam *et al.* (2011) and Young & Yiu (2002).  
 (2) Indicates number of surveys recorded within the reporting period.  
 (3) Refers to the mean number of individuals recorded in the reporting period (excluding the WRA).  
 (4) Includes observations during other surveys and/or site visits.  
 (5) Two regular surveys and seven outside surveys were conducted.  
 V Indicates the species is recorded outside regular surveys

**Table J6: Summary of dragonflies (odonata) and butterfly monitoring in the WRA**

Species Name	Scientific Name	Conservation Status <sup>(1)</sup>	Jun 2023 Occurrence <sup>(2)</sup>	Jun 2023 Mean <sup>(3)</sup>	Records Outside Surveys <sup>(4)</sup>
<b>Odonata</b>	<b>No. of species recorded:</b>	<b>19</b>			
Wandering Midget	<i>Agriocnemis pygmaea</i>	-	1	1.0	0
Common Bluetail	<i>Ischnura senegalensis</i>	-	2	4.0	0
Pale-spotted Emperor	<i>Anax guttatus</i>	-	2	3.5	0
Dingy Dusk-hawker	<i>Gynacantha subinterrupta</i>	LC	-	-	V
Common Flangetail	<i>Ictinogomphus pertinax</i>	-	1	0.5	0
Golden Flangetail	<i>Sinictinogomphus clavatus</i>	-	1	0.5	0
Blue Dasher	<i>Brachydiplax chalybea flavovittata</i>	-	2	4.5	0
Asian Amberwing	<i>Brachythemis contaminata</i>	-	2	2.5	0
Crimson Darter	<i>Crocothemis servilia servilia</i>	-	2	2.5	0
Blue Percher	<i>Diplacodes trivialis</i>	-	1	0.5	0
Pied Percher	<i>Neurothemis tullia tullia</i>	-	1	6.0	0
Mangrove Skimmer	<i>Orthetrum poecilops</i>	GC	-	-	V
Green Skimmer	<i>Orthetrum sabina sabina</i>	-	2	2.5	0
Wandering Glider	<i>Pantala flavescens</i>	-	2	5.0	0
Pied Skimmer	<i>Pseudothemis zonata</i>	-	2	2.0	0
Variegated Flutterer	<i>Rhyothemis variegata arria</i>	-	2	13.0	0
Evening Skimmer	<i>Tholymis tillarga</i>	-	2	5.0	0
Saddlebag Glider	<i>Tramea virginia</i>	-	1	2.5	0
Dingy Dusk-darter	<i>Zyxomma petiolatum</i>	-	1	0.5	V
Species Name	Scientific Name	Conservation Status <sup>(1)</sup>	Jun 2023 Occurrence <sup>(2)</sup>	Jun 2023 Mean <sup>(3)</sup>	Records Outside Surveys <sup>(4)</sup>
<b>Butterflies</b>	<b>No. of species recorded:</b>	<b>28</b>			
Great Egg-fly	<i>Hypolimnas bolina kezia</i>	-	1	1.0	0
Common Sailor	<i>Neptis hylas hylas</i>	-	1	0.5	0

Species Name	Scientific Name	Conservation Status <sup>(1)</sup>	Jun 2023 Occurrence <sup>(2)</sup>	Jun 2023 Mean <sup>(3)</sup>	Records Outside Surveys <sup>(4)</sup>
Angled Castor	<i>Ariadne ariadne atternus</i>	-	1	0.5	0
Common Duffer	<i>Discophora sondaica tulliana</i>	-	1	0.5	0
Common Palmfly	<i>Elymnias hypermnestra hainana</i>	-	2	1.0	0
Dark Brand Bush Brown	<i>Mycalesis mineus mineus</i>	-	1	1.0	0
Chocolate Royal	<i>Remelana jangala mudra</i>	-	1	0.5	0
Long-banded Silverline	<i>Spindasis lohita</i>	-	1	0.5	0
Long-tailed Blue	<i>Lampides boeticus</i>	-	1	1.5	0
Pale Grass Blue	<i>Pseudozizeeria maha serica</i>	-	2	8.0	0
Lesser Grass Blue	<i>Zizina otis</i>	-	1	1.0	0
Tiny Grass Blue	<i>Zizula hylax</i>	-	1	0.5	0
Tailless Line Blue	<i>Prosotas dubiosa</i>	-	2	4.5	0
Red-base Jezebel	<i>Delias pasithoe pasithoe</i>	-	1	0.5	0
Indian Cabbage White	<i>Pieris canidia canidia</i>	-	1	0.5	0
Small Cabbage White	<i>Pieris rapae crucivora</i>	-	1	2.5	0
Lemon Emigrant	<i>Catopsilia pomona pomona</i>	-	2	2.0	0
Common Grass Yellow	<i>Eurema hecabe hecabe</i>	-	2	2.0	0
Three-spot Grass Yellow	<i>Eurema blanda hylama</i>	-	1	0.5	0
Small Grass Yellow	<i>Eurema brigitta</i>	LC	1	1.0	0
Common Bluebottle	<i>Graphium sarpedon sarpedon</i>	-	1	0.5	0
Common Mime	<i>Chilasa clytia clytia</i>	-	1	0.5	0
Common Mormon	<i>Papilio polytes polytes</i>	-	2	1.5	0
Paris Peacock	<i>Papilio paris</i>	-	1	0.5	0
Dart	<i>Potanthus sp.</i>	-	1	0.5	0
Formosan Swift	<i>Borbo cinnara</i>	-	1	0.5	0
Rare Swift	<i>Pamara ganga</i>	-	1	1.0	0
Colon Swift	<i>Caltoris bromus</i>	-	2	1.0	0

Note:

- (1) Conservation status follows that of Fellowes *et al.* (2002), Lo & Hui (2004), Tam *et al.* (2011) and Young & Yiu (2002).
- (2) Indicates number of surveys recorded within the reporting period.
- (3) Refers to the mean number of individuals recorded in the reporting period in the WRA.
- (4) Includes observations during other surveys and/or site visits.
- (5) Two regular surveys and 21 outside surveys were conducted.
- V Indicates the species is recorded outside regular surveys