

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⁾		
		Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Apr 2025	
Amphibians								
Gunther's Frog	<i>Hyalarana guentheri</i>	-	0.0	0.0	0.0	0.0	3.0	V
		No. of Species Recorded	0	0	0	0	1	1
Reptiles								
Long-tailed Skink	<i>Eutropis longicaudata</i>	-	0.0	0.0	0.0	0.0	1.0	0.0
Many-banded Krait	<i>Bungarus multicinctus</i> <i>multicinctus</i>	-	0.0	0.0	0.0	0.0	0.0	0.5
Checkered Keelback	<i>Xenochrophis flavipunctatus</i>	-	0.0	0.0	0.0	V	0.0	0.0
		No. of Species Recorded	0	0	0	1	1	1

(1) Conservation status follows that of Fellows 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⁾		
		Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Apr 2025	
Amphibians								
Asian Common Toad	<i>Duttaphrynus melanostictus</i>	-	0.0	0.0	0.0	0.0	0.0	0.5
Gunther's Frog	<i>Hyalarana guentheri</i>	-	0.0	0.0	0.0	0.0	0.0	1.0
Ornate Pigmy Frog	<i>Microhyla fissipes</i>	-	0.0	0.0	0.0	0.0	1.0	8.5
		No. of Species Recorded	0	0	0	0	1	3

Common Name	Scientific Name	Conservation Status ⁽¹⁾					Mean ⁽²⁾		
		Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Apr 2025		
Reptiles									
Bowring's Gecko	<i>Hemidactylus bowringii</i>	-	1.0	0.0	0.0	0.0	2.0	3.0	
Four-clawed Gecko	<i>Gehyra mutilata</i>	-	0.0	0.0	0.0	0.0	0.0	0.5	
Checkered Keelback	<i>Xenochrophis flavipunctatus</i>	-	0.0	0.0	0.0	0.0	0.0	0.5	
Chinese Cobra	<i>Naja atra</i>	PRC	0.0	0.0	0.0	0.0	0.0	0.5	
No. of Species Recorded		1	0	0	0	1	4		

(1) Conservation status follows that of Fellows 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⁾				
			Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025
Mammal							
		No. of Species Recorded	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⁾				
			Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025
Mammal							
Leopard Cat#	<i>Prionailurus bengalensis</i>	Class II	1.0	0.0	V	0.0	0.0
Eurasian Wild Pig*	<i>Sus scrofa</i>	-	0.0	0.0	V	1.0	0.0
Japanese Pipistrelle	<i>Pipistrellus abramus</i>	-	0.0	0.0	0.0	0.0	10.0
No. of Species Recorded		1	0	2	1	0	2

(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.

Indicates that scats of Leopard Cat were found.

* Indicates that tracks of Eurasian Wild Pig (previously referred to as Wild Boar) were found.

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

Common Name	Scientific Name	Conservation Status ⁽¹⁾	Mean ⁽²⁾				
Odonata							
Orange-tailed Sprite	<i>Ceriagrion auranticum ryukyuicum</i>	-	1.0	0.0	0.0	0.0	0.0
Common Bluetail	<i>Ischnura senegalensis</i>	-	1.0	0.0	0.0	0.0	0.0
Asian Amberwing	<i>Brachythemis contaminata</i>	-	0.0	0.0	0.0	0.0	7.0
Wandering Glider	<i>Pantala flavescens</i>	LC	2.0	0.0	0.0	0.0	0.0
Variegated Flutterer	<i>Rhyothemis variegata arria</i>	-	5.0	0.0	0.0	0.0	12.0
No. of Species Recorded			4	0	0	0	2
Butterfly							
Common Palmfly	<i>Elymnias hypermnestra hainana</i>	-	1.0	0.0	0.0	0.0	0.0
Pale Grass Blue	<i>Pseudozizeeria maha serica</i>	-	0.0	0.0	0.0	0.0	V 3.5
Red-base Jezebel	<i>Delias pasithoe pasithoe</i>	-	1.0	0.0	0.0	0.0	0.0
Small Cabbage White	<i>Pieris rapae crucivora</i>	-	1.0	0.0	0.0	0.0	34.0 46.5
Common Grass Yellow	<i>Eurema hecabe hecabe</i>	-	0.0	0.0	0.0	0.0	V
Common Mormon	<i>Papilio polytes polytes</i>	-	1.0	0.0	0.0	0.0	0.0
No. of Species Recorded			4	0	0	0	2

(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)

V indicates the species is recorded outside regular surveys

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

Common Name	Scientific Name	Conservation Status ⁽¹⁾	Mean ⁽²⁾				
Odonate							
Orange-tailed Sprite	<i>Ceriagrion auranticum ryukyuannum</i>	-	3.0	0.0	0.0	0.0	0.0
Common Bluetail	<i>Ischnura senegalensis</i>	-	1.0	0.0	0.0	0.0	0.0
Yellow Featherlegs	<i>Copera marginipes</i>	-	1.0	0.0	0.0	0.0	0.0
Blue Dasher	<i>Brachydiplax chalybea flavovittata</i>	-	0.0	0.0	0.0	0.0	V
Asian Amberwing	<i>Brachythemis contaminata</i>	-	1.0	0.0	0.0	0.0	8.0
Russet Percher	<i>Neurothemis fulvia</i>	-	1.0	0.0	0.0	0.0	0.0
Pied Percher	<i>Neurothemis tullia tullia</i>	-	2.0	0.0	0.0	0.0	0.0
Green Skimmer	<i>Orthetrum sabina sabina</i>	-	3.0	0.0	0.0	0.0	0.0
Wandering Glider	<i>Pantala flavescens</i>	-	4.0	0.0	0.0	0.0	0.0
Variegated Flutterer	<i>Rhyothemis variegata arria</i>	-	1.0	0.0	0.0	0.0	6.0
No. of Species Recorded			9	0	0	0	2
Butterfly							
Ceylon Blue Glassy Tiger	<i>Ideopsis similis similis</i>	-	0.0	0.0	0.0	0.0	0.0
Blue-spotted Crow	<i>Euploea midamus midamus</i>	-	2.0	0.0	0.0	0.0	0.0
Great Egg-fly	<i>Hypolimnas bolina kezia</i>	-	V	0.0	0.0	0.0	0.0
Common Sailor	<i>Neptis hylas hylas</i>	-	0.0	0.0	0.0	0.0	1.0
Common Evening Brown	<i>Melanitis leda</i>	-	V	0.0	0.0	0.0	0.0
Common Palmfly	<i>Elymnias hypermnestra hainana</i>	-	2.0	0.0	0.0	0.0	0.0
Dark Brand Bush Brown	<i>Mycalesis mineus mineus</i>	-	5.0	0.0	0.0	0.0	6.0
Pale Grass Blue	<i>Pseudozizeeria maha serica</i>	-	0.0	0.0	0.0	0.0	2.0
Tailless Line Blue	<i>Prosotas dubiosa</i>	-	V	0.0	0.0	0.0	0.0
Red-base Jezebel	<i>Delias pasithoe pasithoe</i>	-	1.0	0.0	0.0	0.0	0.0

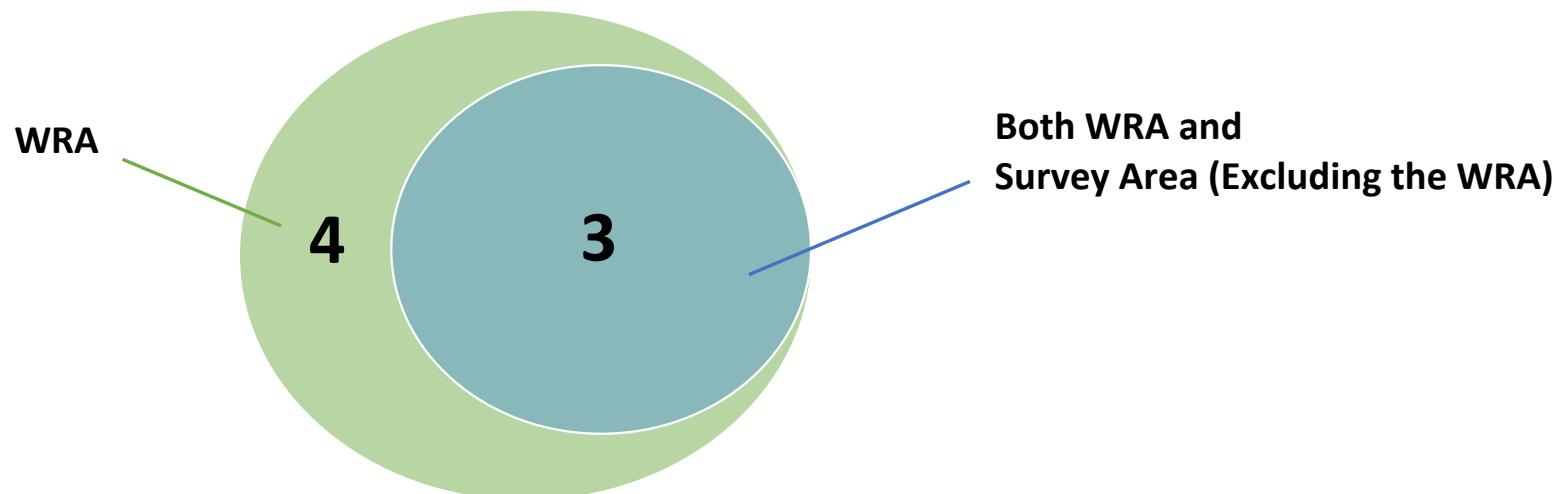
Small Cabbage White	<i>Pieris rapae crucivora</i>	-	1.0	0.0	0.0	0.0	0.0	4.0
Common Grass Yellow	<i>Eurema hecabe hecabe</i>	-	1.0	0.0	0.0	0.0	1.0	0.0
Tailed Jay	<i>Graphium agamemnon agamemnon</i>	-	1.0	0.0	0.0	0.0	0.0	0.0
Lime Butterfly	<i>Papilio demoleus</i>	-	0.0	0.0	0.0	0.0	0.0	0.5
Common Mormon	<i>Papilio polytes polytes</i>	-	1.0	0.0	0.0	0.0	0.0	0.0
No. of Species Recorded			11	0	0	0	4	5

(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

V indicates the species is recorded outside regular surveys

Chart C1: Number of Common Amphibian Species and Amphibian Species Only Found in the WRA or Survey Area (Excluding the WRA) During the Reporting Period

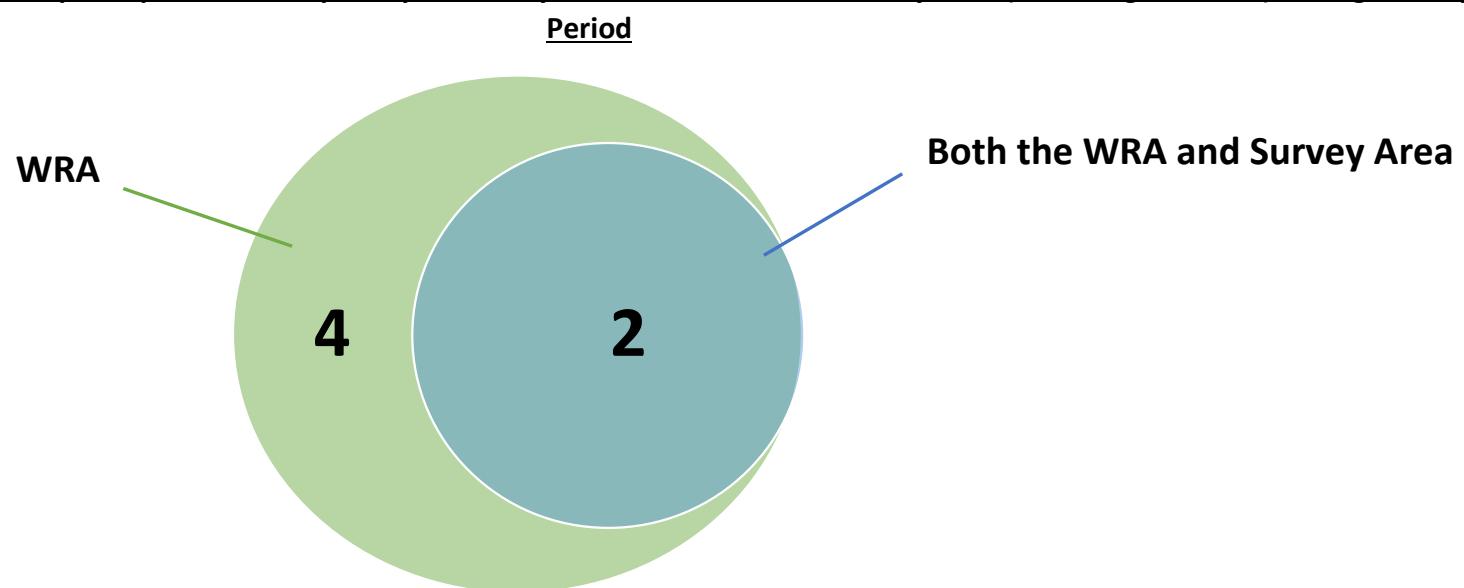


Species Only Found in the WRA
Chinese Bullfrog
Gunther's Frog
Paddy Frog
4

Common Species Found in Both the WRA and Survey Area (Excluding the WRA)
Asian Common Toad
Brown Tree Frog
Asiatic Painted Frog
3

Species Only Found in the Survey Area (Excluding the WRA)
0

Chart C2: Number of Common Reptile Species and Reptile Species Only Found in the WRA or Survey Area (Excluding the WRA) During the Reporting Period



Species Only Found in the WRA
Four-clawed Gecko
Taiwan Kukri
Common Rat Snake
4

Common Species Found in Both the WRA and Survey Area (Excluding the WRA)
Bowring's Gecko
Checkered Keelback
2

Species Only Found in the Survey Area (Excluding the WRA)
0

Chart C3: Number of Common Mammal Species and Mammal Species Only Found in the WRA or Survey Area (Excluding the WRA) During the Reporting Period

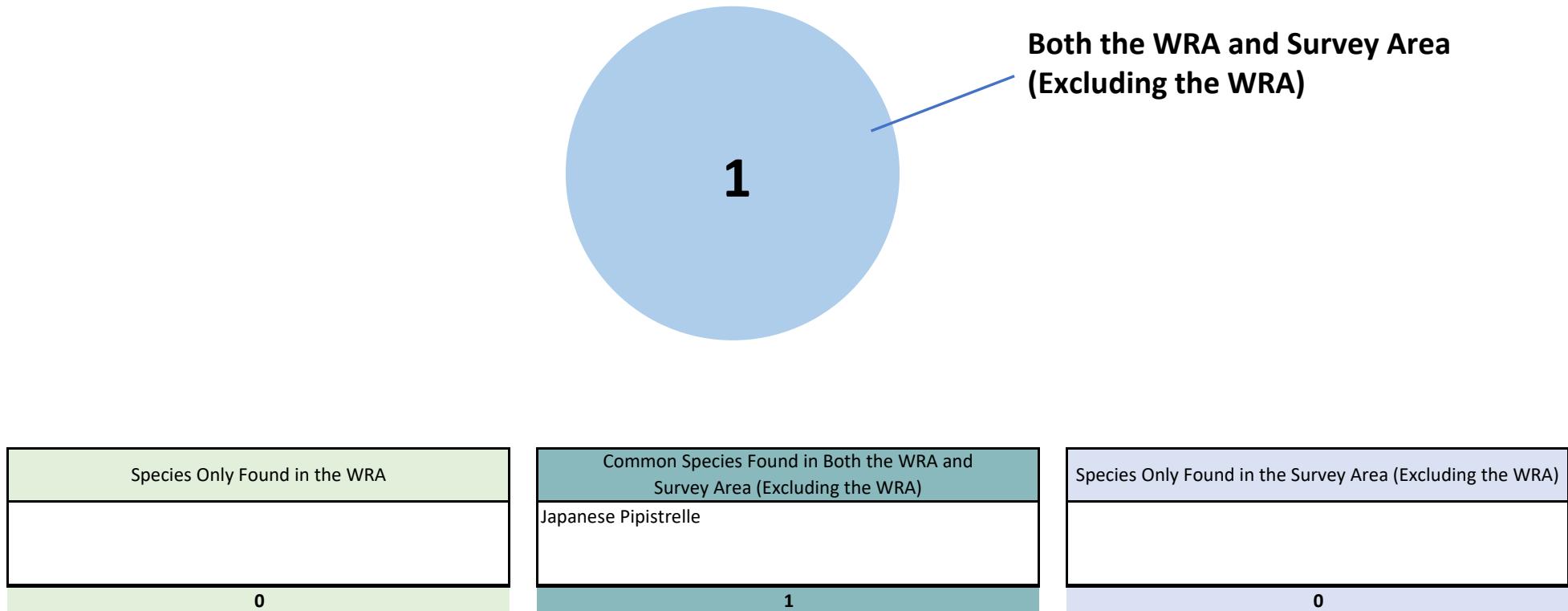
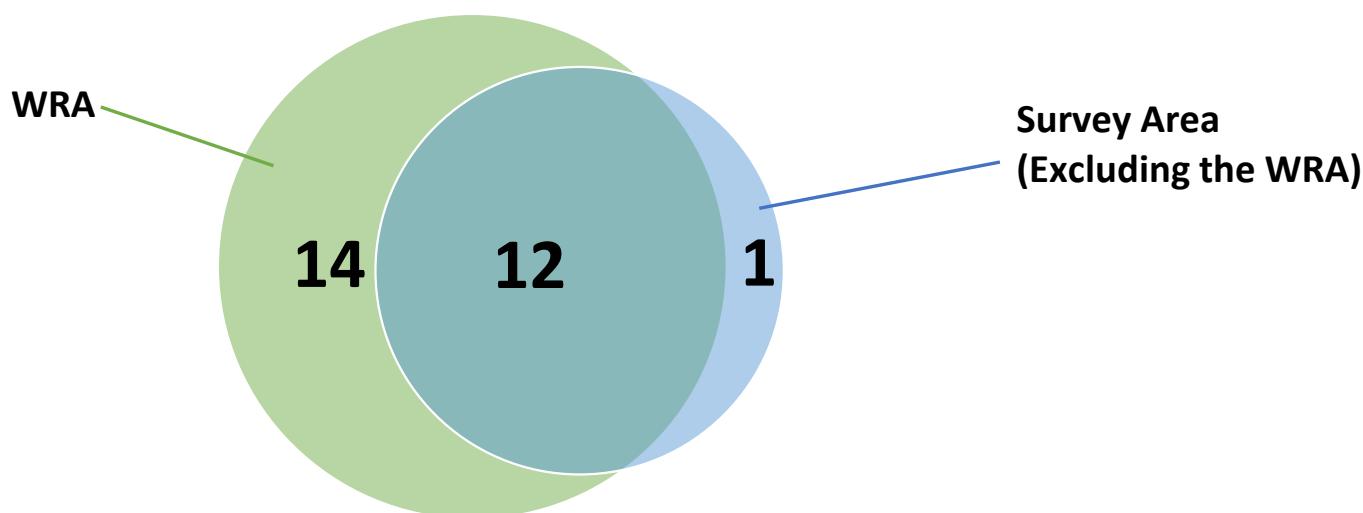


Chart C4: Number of Common Dragonfly Species and Dragonfly Species Only Found in the WRA or Survey Area (Excluding the WRA) During the Reporting Period

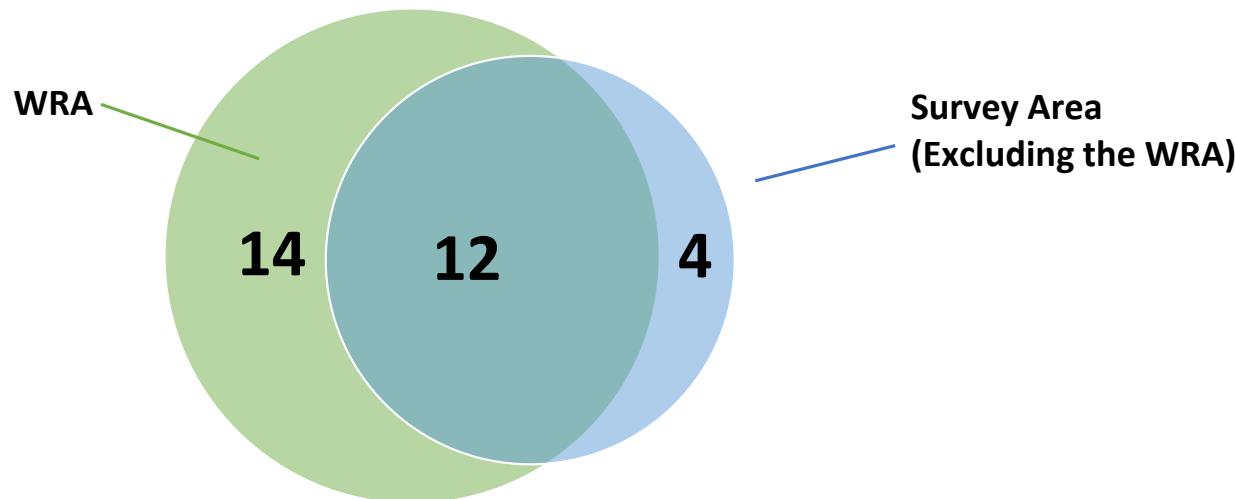


Species Only Found in the WRA	
Orange-tailed Midget	Ruby Darter
Blue Sprite	Evening Skimmer
Orange-faced Sprite	Saddlebag Glider
Yellow Featherlegs	Scarlet Basker
Pale-spotted Emperor	Forest Chaser
Asian Pintail	
Blue Dasher	
Blue Percher	
Red-faced Skimmer	
14	

Common Species Found in Both the WRA and Survey Area (Excluding the WRA)	
Wandering Midget	Wandering Glider
Orange-tailed Sprite	Pied Skimmer
Common Bluetail	Variegated Flutterer
Common Flangetail	
Asian Amberwing	
Crimson Darter	
Russet Percher	
Pied Percher	
Green Skimmer	
12	

Species Only Found in the Survey Area (Excluding the WRA)
Coastal Glider
1

Chart C5: Number of Common Butterfly Species and Butterfly Species Only Found in the WRA or Survey Area (Excluding the WRA) During the Reporting Period



Species Only Found in the WRA	
Plain Tiger	Great Orange Tip
Common Archduke	Three-spot Grass Yellow
Common Mapwing	Common Bluebottle
Dark Evening Brown	Paris Peacock
Common Palmfly	Paintbrush Swift
Silver Streak Blue	Rare Swift
Common Hedge Blue	Chinese Dart
14	

Common Species Found in Both the WRA and Survey Area (Excluding the WRA)	
Blue-spotted Crow	Small Cabbage White
Great Egg-fly	Lemon Emigrant
Common Sailor	Common Grass Yellow
Common Evening Brown	Tailed Jay
Dark Brand Bush Brown	Common Mormon
Pale Grass Blue	Common Straight Swift
12	

Species Only Found in the Survey Area (Excluding the WRA)
Rustic
Red-base Jezebel
Lime Butterfly
Spangle
4

D. Summary of Water Quality Monitoring

Table D1. Water quality at WRA

Nov 2024

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (12 Nov) (cm)	Water Level (14 Nov) (cm)	Water Level (26 Nov) (cm)
1	24.6	7.8	0.2	17.2	5.3	180	180	190
2	24.6	7.7	0.2	17.3	5.3	150	160	165
3	25.1	7.7	0.2	35.1	5.9	190	190	200
4	24.6	7.5	0.2	18.8	4.5	180	190	190

Dec 2024

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (2 Dec)	Water Level (cm) (30 Dec)
1	15.1	7.2	0.2	69.7	9.2	185	170
2	14.0	7.6	0.2	9.1	9.0	155	140
3	15.3	7.9	0.2	30.3	9.7	195	185
4	15.0	7.5	0.2	18.7	9.4	190	175

Jan 2025

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (7 Jan)	Water Level (cm) (27 Jan)
1	16.2	7.2	0.2	63.4	7.7	170	160
2	15.7	7.5	0.2	24.5	7.9	140	130
3	15.9	7.8	0.2	65.5	9.4	185	180
4	16.4	7.8	0.2	19.6	9.7	180	170

Feb 2025

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (4 Feb)	Water Level (cm) (28 Feb)
1	17.3	7.2	0.2	30.6	8.2	155	150
2	16.9	7.5	0.2	38.0	8.8	130	120
3	17.3	7.8	0.2	42.3	10.0	170	170
4	17.4	7.8	0.2	13.9	7.8	160	160

Mar 2025

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (6 Mar)	Water Level (cm) (27 Mar)
1	24.2	7.4	0.2	181.2	8.4	145	145
2	25.5	7.9	0.2	46.9	8.9	120	115
3	25.6	7.8	0.2	59.0	8.6	165	160
4	24.5	7.7	0.2	18.8	8.9	160	155

Apr 2025

Cell No.	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm) (1 Apr)	Water Level (cm) (22 Apr)
1	24.2	7.4	0.2	181.2	8.4	140	135
2	25.5	7.9	0.2	46.9	8.9	115	110
3	25.6	7.8	0.2	59.0	8.6	160	155
4	24.5	7.7	0.2	18.8	8.9	155	140

Action / Limit Level	Temp. (°C)	pH	Salinity (ppt)	Turb. (NTU)	DO (mg/L)	Water Level (cm)
Action Level	-	<6.5 or >8.0	>2	-	<2	<150 or >250
Limit Level	-	<6.0 or >8.5	>5	-	<1	-

Notes: Values highlighted in **bold** indicate that action level is reached; whereas values in **bold and underlined** indicate that limit level is reached
 Additional water level monitoring was conducted

Table D2. Water quality monitoring (Laboratory Testing) at WRA

Apr 2025

Monitoring Location	Ammonia-N (mg/L)	NOx-N (mg/L)	Total P (mg/L)	Reactive P (mg/L)	BOD (mg/L)
Cell 1-1	0.19	<0.01	0.44	<0.01	20.0
Cell 1-2	0.25	0.02	0.43	<0.01	19.0
Cell 1-3	0.23	0.03	0.42	<0.01	20.0
Cell 2-1	0.26	0.03	0.36	0.02	24.0
Cell 2-2	0.18	0.03	0.36	<0.01	29.0
Cell 2-3	0.19	0.03	0.37	<0.01	30.0
Cell 3-1	0.08	0.02	0.05	0.02	<2.0
Cell 3-2	0.08	0.02	0.04	0.02	<2.0
Cell 3-3	0.08	0.02	0.04	0.02	<2.0
Cell 4-1	0.86	0.08	0.15	<0.01	8.0
Cell 4-2	0.91	0.06	0.14	<0.01	8.0
Cell 4-3	0.78	0.08	0.14	<0.01	9.0
Action Level	>3	>5	>5	-	-
Limit Level	>6	>10	>10	-	-

Note: Values highlighted in **bold** indicate that action level is reached; whereas values in **bold and underlined** indicate that limit level is reached.

The additional water samples for ex-situ laboratory analysis were collected on 16 April 2025.