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**SHEUNG SHUI TO LOK MA CHAU SPUR LINE**

**Environmental Committee Meeting**

Minutes of Meeting No. 43 held at 10:00am  
on Wednesday, 24<sup>th</sup> August 2022,  
via Webinar (Microsoft Teams)

<b>Present:</b>		
Dr. Xianji Wen	WWF Hong Kong	Member (NGO)
Mr. Yat-tung Yu	The Hong Kong Bird Watching Society	Member (NGO)
Mr. Chiky Wong	Friends of the Earth (Hong Kong)	Member (NGO)
Ms. Kenny Yiu	Environmental Team	Member (MTR)
Mr. Peter Choi	Environmental Team	Member (MTR)
Mr. Siu-cheong Lau	Civil Maintenance Team	Member (MTR)
Ms. Elizabeth Wu	Ecological Consultant	Member (consultant)
Mr. Linus Hung	Ecological Consultant	Member (consultant)
<b>Absent with apology:</b>		
Mr. Matthew Wong	Civil Maintenance Team	Member (MTR)
Ms. Catherine Leung	Environmental Team	Member (MTR)
Mr. Paul Leader	Ecological Consultant	Member (consultant)

<b>Attachments</b>	
Annex A	Presentation Material of EC Meeting No. 43

<u>Item/Description</u>	<u>Action By</u>
<p>1. <i>A member (MTR)</i> updated that Mr. Mike Kilburn (HKBWS) and Ms. Karen Barretto (FoE) had stepped down from the LMC Environmental Committee in June 2022, and expressed gratitude for Mike and Karen, for their dedication and valuable advice on LMC wetland management in the past 20 years. Mr. YU Yat Tung and Mr. Chiky Wong are the new representatives from HKBWS and FoE respectively on the LMC EC. Members welcomed new EC members to join the LMC EC.</p>	Noted
<p><b><u>Confirmation of minutes of Meeting No. 42</u></b></p> <p>2. There was no comment on the minutes of Meeting No. 42 and the minutes was confirmed.</p>	Noted
<p><b><u>Ecological Enhancement Works and Monitoring – an Update on Management Works and Look Ahead</u></b></p> <p>3. <i>A member (consultant)</i> reported on the major habitat enhancement, modification works, ecological monitoring and management works undertaken from January to June 2022 at the LMC EEA (detailed in <b>Annex A</b>) as follows:</p> <p>3.1 <i>A member (consultant)</i> started the meeting with a brief introduction of the background of the management of the LMC EEA e.g. the locations of the LMC EEA and the two Control Areas, habitat requirements as described in the Environmental Permit (EP) and the Management Compartments.</p> <p>3.2 <i>A member (consultant)</i> reported that 200 Grass Carp and 5,724 kg Tilapia were stocked.</p> <p>3.3 <i>A member (consultant)</i> reported that one dog was trapped in the period and was collected by AFCD. There were 21 Red Imported Fire Ant nests treated in the past six months and the problem was not as severe as in previous years, but the nest will still be treated when seen.</p> <p>3.4 <i>A member (consultant)</i> reported on the performance of the numerical bird target species. Most target species had met the target level, while some are not. The management strategy for the target species will be reviewed in the coming five-yearly review which is under preparation.</p> <p>3.5 <i>A member (consultant)</i> further reported on the non-numerical bird target species.</p> <p>3.6 <i>A member (consultant)</i> reported the roost count data. Over 1,100 Great Cormorant were recorded during the winter, while there were no birds recorded in May and June.</p>	<p>Noted</p> <p>Noted</p> <p>Noted</p> <p>Noted</p> <p>Noted</p>

<u>Item/Description</u>	<u>Action By</u>
3.7 <u>A member (consultant)</u> reported that most of the bird nest boxes provided were occupied (78 by White-shouldered Starlings and 1 by Oriental Magpie Robin), out of 88 boxes.	Noted
3.8 <u>A member (consultant)</u> reported the breeding birds recorded in the LMC EEA, in addition to the findings of nest boxes. There were 12 pairs of Little Grebe, 1 pair of Cinnamon Bittern, 1 pair of Yellow Bittern, 12 pairs of White-breasted Waterhen, 2 pairs of Common Moorhen, 1 pair of Greater Painted-snipe displaying, 1 pair of Greater Painted-snipe mating and 1 pair of Chinese Grosbeak recorded in the first half of 2022.	Noted
3.9 <u>A member (consultant)</u> reported on the globally threatened bird species recorded. Falcated Duck was recorded at the start of the year. The number of Black-faced Spoonbill recorded was not too high. Up to two Greater Spotted Eagle and Eastern Imperial Eagle were recorded. Collared Crow was recorded regularly on site. Curlew Sandpiper and Red-necked Stint were recorded in April, when one of the ponds had part of the bottom exposed. Manchurian Reed Warbler and Yellow-breasted Bunting were recorded on several dates in January and March.	Noted
3.10 <u>A member (consultant)</u> reported that Eurasian Otter was not recorded and Leopard Cat was recorded on 40 days with an OI of 42.9.	Noted
3.11 <u>A member (consultant)</u> noted that all reptile target, Reeves' Turtle, Chinese Soft-shelled Turtle and Burmese Python, were recorded once during the period, with one individual recorded.	Noted
3.12 <u>A member (consultant)</u> reported on the number of Red-eared Slider recorded. A maximum of 8 individuals were recorded on one day. Trapping of Red-eared Slider had been carried out last year, but none was trapped.	Noted
3.13 <u>A member (consultant)</u> reported that there were six amphibian species recorded, and the target species, Chinese Bullfrog, was not recorded. The number of species recorded was fairly typical.	Noted
3.14 <u>A member (consultant)</u> reported that 21 dragonfly species were recorded in the first half of 2022. The number of species recorded was typical for the first half of the year and more surveys will be conducted in the season.	Noted
3.15 <u>A member (consultant)</u> reported that the reprofiling works at Ponds 16, 17, 18 and 20a were completed. Works at Ponds 16, 17 and 18 are to create internal bunds to divide the ponds into smaller cells in order to provide shallow water ponds to facilitate rice planting. Modification of boundary fences, construction of artificial otter holts and upgrade of power supply system were in progress and targeted to be completed in 2022.	Noted

<u>Item/Description</u>	<u>Action By</u>
<p>3.16 <u>A member (NGO)</u> enquired how LMC EEA was being monitored and managed. <u>A member (MTR)</u> replied that there were the landscape maintenance contractor and the ecological consultant working for LMC EEA. Landscape maintenance contractor mainly works on daily management works of LMC EEA such as water level management and grass-cutting of the site. Ecological consultant mainly monitors the ecological and environmental factors of the site such as conducting surveys on various fauna groups, providing management advices. <u>A member (NGO)</u> further enquired the frequency of the ecological consultant being on site. <u>A member (consultant)</u> replied they are on site at least three times a week, at different time depending on the works that are undertaken. <u>A member (NGO)</u> enquired the survey time and methods. <u>A member (consultant)</u> replied they will conduct the surveys according to the target fauna groups. In-person surveys will be conducted mostly, but cameras are installed to monitor mammal activities. Bird surveys include those carried out in the early morning, afternoon and near sunset. Day-time survey targeted for dragonfly (reptile seen will also be recorded), while night-time survey for herpetofauna.</p>	Noted
<p>3.17 <u>A member (NGO)</u> enquired about the information of the otter holt. <u>A member (MTR)</u> replied it was designed based on the advices from the ecological consultant and constructed by a contractor. The otter holt was built already, but waiting for the completion of electricity supply for the monitoring camera to function.</p>	Noted
<p>3.18 <u>A member (NGO)</u> enquired how the trapped Red-eared Slider will be treated after capture. <u>A member (consultant)</u> replied that a local NGO, after liaison and suggestion with AFCD, will receive the captured Red-eared Slider for further caring. <u>A member (NGO)</u> further enquired if Greenhouse Frog will also be trapped, and suggested, from the conservation perspective, it would be good to kill the invasive species. <u>A member (consultant)</u> replied that it will be considered.</p>	Noted
<p>3.19 <u>A member (NGO)</u> enquired what kind of works requires electricity other than the otter holt. <u>A member (MTR)</u> replied there were also four water pumps on site that required the use of electricity supply as they were used during water management among the ponds within the site.</p>	Noted
<p><b><u>Any Other Business</u></b></p> <p>4. <u>A member (MTR)</u> informed that the five-yearly review (2017-2021) was under progress. Management Review Report (MRR) will be distributed to EC members for review, in addition to EPD and AFCD. HCMP will then be updated according to the review of MRR, if necessary.</p> <p>5. <u>A member (MTR)</u> updated EC members that MTR is considering ways in creating blended value for LMC wetland given that it will not violate the EP requirements. If there</p>	MTR  MTR

<b><u>Item/Description</u></b>	<b><u>Action By</u></b>
<p>is any plan/proposal, it will be shared with EC members. <i>A member (NGO)</i> expressed that there are also NGOs, such as HKBWS, working near the LMC EEA. The bird records at the LMC EEA suggested that it is important to the biodiversity and it would be great for various parties to discuss and try to collaborate on the social aspects, but reminded that any “new” activities should not have negative impacts on the ecology of the LMC EEA. <i>A member (MTR)</i> thanked the suggestions provided by the EC member and the suggestions will be considered when working out proposals.</p> <p>6. <i>A member (MTR)</i> suggested arranging a site visit for EC members during this autumn/winter. The exact date and time will be confirmed.</p>	MTR
<p><b><u>Date of Next Meeting</u></b></p> <p>7. The date of the next meeting will be advised.</p>	MTR

# Lok Ma Chau Spur Line 43<sup>rd</sup> Environmental Committee Meeting

Report on Ecological Monitoring and Management, and Works Programme  
January – June 2022


24<sup>th</sup> Aug 2022




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Background



LMC EEA  
San Tin  
Mai Po  
San Tsuen




Lok Ma Chau Spur Line  
43<sup>rd</sup> Environmental Committee Meeting  
Report on Ecological Monitoring and Management, and  
Works Programme (Jan – Jun 2022)


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Background



LMC EEA Boundary  
Fishpond  
Marsh  
Reedbed





Lok Ma Chau Spur Line  
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Background


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Management Works: Fish Stocking

- 200nos. of Grass Carp and 5,724kg of Tilapia were stocked



Stocked with Tilapia  
Stocked with Grass Carp and Tilapia



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Management Works: Pest Management

**Dog Trapping**


- 1 at Pond 5 (24<sup>th</sup> May).

**Pest Management (Red Imported Fire Ant)**

- Red Imported Fire Ant nest treatment using the approved pesticide.

Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022*
No. of Nests Treated	315	790	1,760	1,211	1,333	939	969	269	254	366	157	21

\* include data from January to June



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### Numerical Bird Target Performance in the Past 5 Years

Year	Jul 2017 – Jun 2018			Jul 2018 – Jun 2019			Jul 2019 – Jun 2020			Jul 2020 – Jun 2021			Jul 2021 – Jun 2022		
	LMC	CA	Ratio*	LMC	CA	Ratio*	LMC	CA	Ratio*	LMC	CA	Ratio*	LMC	CA	Ratio*
Density (mean/ha)	0.5	<0.1	46.6	0.6	<0.1	244.7	3	<0.1	19.7	1.7	<0.1	235.9	0.2	<0.1	7.1
Eurasian Teal	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr
Japanese Quail	<0.1	nr	LMC	<0.1	nr	LMC	<0.1	<0.1	0.8	nr	nr	<0.1	nr	LMC	
Black-faced Spoonbill	0.8	0.1	15.1	0.3	<0.1	15.1	0.4	<0.1	21.4	0.5	0.1	7.7	0.2	<0.1	7.5
Chinese Pond Heron	1.9	0.7	2.7	1.6	0.6	2.8	1.0	0.4	2.4	1.1	0.6	1.8	0.7	0.4	1.6
Grey Heron	2.5	0.1	16.9	1.8	0.2	11.2	1.9	0.2	12.1	2.3	0.2	24.4	1.1	0.2	5.8
Great Egret	<2.7	0.5	4.9	1.4	0.2	6.5	1.9	0.5	3.6	2.4	0.8	3.0	0.9	0.5	1.8
Little Egret	1.1	0.7	1.6	0.6	0.6	1.2	1.1	0.7	1.5	1.5	1.0	1.4	0.5	0.8	0.6
Great Cormorant	5.5	0.5	10.7	9.6	0.4	23.2	12.9	0.2	52.7	11.6	0.2	52.2	5.7	0.2	25.1
Greater Spotted Eagle	<0.1	nr	LMC	<0.1	nr	LMC	<0.1	nr	LMC	<0.1	nr	LMC	<0.1	nr	LMC
Eastern Imperial Eagle	<0.1	nr	LMC	<0.1	nr	LMC	<0.1	nr	LMC	<0.1	nr	LMC	<0.1	nr	LMC
Eurasian Coot	<0.1	<0.1	24.7	<0.1	<0.1	16.9	<0.1	<0.1	6.6	<0.1	<0.1	0.7	<0.1	<0.1	0.9
Black-winged Stilt	0.2	0.1	1.1	0.2	0.2	0.8	0.6	0.3	1.8	0.7	0.5	1.3	0.2	0.8	0.2
Greater Painted-snipe	<0.1	nr	LMC	<0.1	nr	LMC	<0.1	<0.1	54.3	<0.1	nr	LMC	<0.1	nr	LMC
Pheasant-tailed Jacana	<0.1	nr	LMC	<0.1	<0.1	74	<0.1	<0.1	33.3	<0.1	nr	LMC	<0.1	<0.1	125.8
Pintail/ Swinhoe's Snipe*	<0.1	<0.1	123.3	0.1	<0.1	71.5	<0.1	<0.1	11.5	<0.1	<0.1	50.1	<0.1	<0.1	11.3
Common Snipe	<0.1	<0.1	2.6	<0.1	<0.1	6.4	<0.1	<0.1	5.1	<0.1	<0.1	5.8	<0.1	<0.1	1.5
Pallas's Grasshopper Warbler	<0.1	<0.1	27.1	<0.1	<0.1	59.2	<0.1	<0.1	26.9	<0.1	nr	LMC	<0.1	<0.1	23.0
Zitting Cisticola	0.1	0.1	1	0.1	<0.1	11.8	0.1	<0.1	2.5	0.1	<0.1	2.5	0.1	<0.1	10.8
Red-billed Stirling	1.9	0.3	6.7	3.5	0.1	41.6	3.2	0.1	36.2	2.5	0.1	48.0	2.0	0.1	17.9
Blue-throat	<0.1	<0.1	0.9	<0.1	<0.1	3.3	<0.1	<0.1	12.9	<0.1	nr	LMC	<0.1	<0.1	19.0
Japanese Yellow Bunting	nr	<0.1	CA	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	<0.1	CA

1. Includes one species pair, Pintail/Swinhoe's Snipe, not distinguishable in the field.  
 \* Started from 2020, data is calculated based on the maximum count of all surveys. I.e. also including the afternoon counts and roost count.  
 nr = Not recorded within LMC EEA or Control Area during the period  
 LMC = Only recorded in LMC EEA  
 CA = Only recorded in the Control Areas  
 Blue = Density in LMC EEA at least twice that in Control Areas  
 Yellow = Density higher in LMC EEA than in Control Areas  
 Red = Target not met and density lower than in Control Areas

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### Non-numerical Bird Target Performance in the Past 5 Years

Year	Jul 2017 – Jun 2018			Jul 2018 – Jun 2019			Jul 2019 – Jun 2020			Jul 2020 – Jun 2021			Jul 2021 – Jun 2022		
	LMC	CA	Ratio*	LMC	CA	Ratio*	LMC	CA	Ratio*	LMC	CA	Ratio*	LMC	CA	Ratio*
Eurasian Wigeon	<0.1	nr	LMC	0.1	<0.1	67.5	0.2	<0.1	60.1	<0.1	<0.1	71.5	<0.1	<0.1	1.2
Little Grebe	1.1	0.9	1.3	1.1	0.8	1.3	0.7	0.7	0.9	0.5	0.7	0.7	0.8	0.6	1.3
Yellow Bittern	Became a target in November 2019	<0.1	<0.1	5.2	<0.1	<0.1	3.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	4.4
Cinnamon Bittern	<0.1	<0.1	7.2	<0.1	<0.1	2.5	<0.1	3.9	<0.1	nr	LMC	<0.1	<0.1	<0.1	5.8
Black-crowned Night Heron	0.3	<0.1	12.8	0.5	<0.1	11.3	0.2	<0.1	5.7	0.6	<0.1	12.3	0.6	0.1	10.9
Intermediate Egret	0.2	<0.1	34.5	0.1	<0.1	10.2	<0.1	<0.1	6.6	<0.1	<0.1	3.0	<0.1	<0.1	0.9
Wood Sandpiper	Became a target in November 2019	0.3	<0.1	5.6	0.2	<0.1	4.8	0.2	0.1	2.5					
White-necked Stirling	0.2	0.1	2.9	0.2	<0.1	27.2	0.6	<0.1	151.0	0.3	<0.1	54.8	0.4	<0.1	207.1
White-shouldered Stirling	1.1	0.1	11.1	1.2	0.1	12.2	1.2	0.1	22.7	1.6	<0.1	42.5	1.4	<0.1	32.6
Yellow-breasted Bunting	<0.1	<0.1	0.8	<0.1	<0.1	23.4	<0.1	<0.1	0.8	<0.1	<0.1	12.3	<0.1	<0.1	148.0

\* Started from 2020, data is calculated based on the maximum count of all surveys. I.e. also including the afternoon counts and roost count.  
 nr = Not recorded within LMC EEA or Control Areas during the period  
 LMC = Only recorded in LMC EEA  
 Blue = Density in LMC EEA at least twice that in Control Areas  
 Yellow = Density higher in LMC EEA than in Control Areas  
 Red = Density in LMC EEA lower than in Control Areas

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### Roost Count from January to June

- Roost is mainly located at Pond 2, including the island and the northern bund.

Species	Jan	Feb	Mar	Apr	May	Jun
Chinese Pond Heron	3	7	12	5	-	-
Eastern Cattle Egret	-	-	19	32	-	-
Great Egret	21	43	32	17	-	-
Little Egret	8	4	24	24	-	-
Great Cormorant	419	1,134	7	-	-	-
<b>Total of Large Waterbirds</b>	<b>451</b>	<b>1,188</b>	<b>94</b>	<b>78</b>	<b>0</b>	<b>0</b>

\* The species occurred on site or recorded dropping into the main site during the surveys.

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### Nest Box Occupation

- 88 nest boxes are accessible for survey;
- 79 nest boxes were occupied: 78 by White-shouldered Stirling and one by Oriental Magpie Robin.



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### Breeding Birds (in addition to nest box)

Number of pairs recorded:

Little Grebe	12 pairs
Cinnamon Bittern	1 pair
Yellow Bittern	1 pairs
White-breasted Waterhen	12 pairs
Common Moorhen	2 pairs
Greater Painted-snipe	1 pair displaying, 1 pair mating
Chinese Grosbeak	1 pair



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### Globally Threatened Bird Species (maximum number) from January to June

Species	IUCN	Jan	Feb	Mar	Apr	May	Jun
Falcated Duck	NT	1	1	-	-	-	-
Black-faced Spoonbill	EN	36	58	14	4	-	-
Greater Spotted Eagle	VU	2	1	1	-	-	-
Eastern Imperial Eagle	VU	1	2	-	-	-	-
Curlew Sandpiper	VU	-	-	-	5	-	-
Red-necked Stint	NT	-	-	-	3	-	-
Collared Crow	VU	2	2	4	2	4	3
Manchurian Reed Warbler	VU	1	-	1	1	-	-
Yellow-breasted Bunting	CR	2	-	1	-	-	-

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### Mammal Targets Recorded in the Past 10 Years

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 <sup>Ⓐ</sup>
<b>Eurasian Otter <i>Lutra lutra</i></b>										
Maximum Count	1	2	0	1	1	1	1	1	1	0
No. of Records <sup>1</sup>	13 <sup>Ⓐ</sup>	5 <sup>Ⓐ</sup>	0	1	2	5	6	19	1	0
<b>Leopard Cat <i>Prionailurus bengalensis</i></b>										
No. of Records <sup>1</sup> /OIR	111	871	114 <sup>1,Ⓐ</sup> 25.2 <sup>2</sup>	65 <sup>1</sup> 24.2 <sup>2</sup>	51 <sup>1</sup> 22.6 <sup>2</sup>	54 <sup>1</sup> 31.2 <sup>2</sup>	70 <sup>1</sup> 53.6 <sup>2</sup>	53 <sup>1</sup> 24.1 <sup>2</sup>	52 <sup>1</sup> 40 <sup>1</sup>	40 <sup>1</sup> 42.9 <sup>2</sup>

Note:  
 1. Number of dates recorded by all installed cameras plus direct observations.  
 2. Occurrence index.  
 Key:  
 # Including one dead individual found at LMC EIA  
 Ⓐ Including direct observation of one individual at Pond 12  
 % Footprints were recorded  
 Ⓐ Include data from January to June

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### Mammal Targets - Leopard Cat



09-Jan (0330hr), Pond 4

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### Reptile Targets Recorded in the past 10 years

- Reeves' Turtle was recorded once in April 2022.
- Chinese Soft-shelled Turtle and Burmese Python were both recorded once in June 2022.

Species	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 <sup>Ⓐ</sup>
Reeves' Turtle <i>Maurymys reevesii</i>	-	-	2 (1)	4 (2)	8 (2)	-	2 (1)	1 (1)	0 (0)	1 (1)
Chinese Soft-shelled Turtle <i>Pladiscus sinensis</i>	2 (1)	2 (1)	2* (1)	*	3 (1)	1 (1)	0 (0)	1 (1) <sup>Ⓐ</sup>	1 (1)	1 (1)
Burmese Python <i>Python bivittatus</i>	1 (1)	3 (1)	1 <sup>Ⓐ</sup> (1)	1 (1)	0 (0)	0 (0)	0 (0)	1 (1)	2 (1)	1 (1)

Reeves' Turtle became target species from November 2019.  
 Number of surveys recorded is indicated in the table, whereas the numbers in brackets are the maximum count per survey.  
 Key:  
 % Sighting reported by the reprofiling contractor  
 \* Include one record of track  
 # It was recorded in the Clean-up Remedied  
 Ⓐ It was recorded by the installed camera  
 Ⓐ include data from January to June

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### Chinese Soft-shelled Turtle: Prepare to Lay Eggs (video)



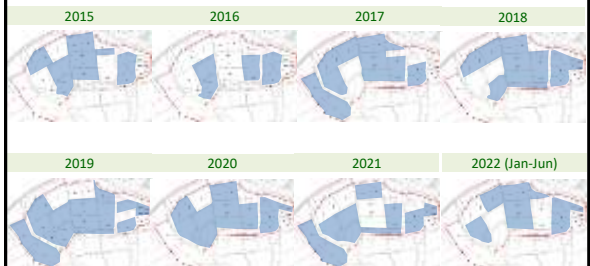
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### Red-eared Slider Recorded since 2015

- A maximum of 8 individuals were recorded on one day (in April);
- Maximum number recorded in the past years:
  - 2021 – 4;
  - 2020 – 6;
  - 2019 – 7;
  - 2018 – 19, egg laying also noted;
  - 2017 – 14, mating also noted;
  - 2016 – 2, egg laying also noted;
  - 2015 – 7.

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### Red-eared Slider Recorded since 2015



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### Amphibian Findings since 2006

- Target species, Chinese Bullfrog, was not recorded in 2022 yet.

Species/ Maximum Total Number of Individuals Recorded in All Ponds in LMC EEA	2006-2013	2014	2015	2016	2017	2018	2019	2020	2021	2022 <sup>#</sup>
Asian Common Toad <i>Bufo melanostictus</i>	4	2	7	1	7	15	6	8	3	-
Asiatic Painted Frog <i>Kalouala pulchra</i>	2	-	-	-	-	1	2	1	1	1
Butler's Pigmy Frog <i>Microhyla butleri</i>	2	-	-	-	-	45	-	3	-	-
Ornate Pigmy Frog <i>Microhyla ornata</i>	128	4	-	-	-	20	18	-	4	38
Marbled Pigmy Frog <i>Microhyla pulchra</i>	-	1	-	-	-	50	-	-	-	-
Paddy Frog <i>Fejervarya limncharis</i>	35	1	10	35	19	13	6	7	9	64
Chinese Bullfrog <i>Hoplobatrachus chinensis</i>	4 (9)	1 (2)	0 (0)	0 (0)	4 (9)	0 (0)	1 (2)	0 (0)	0 (0)	0 (0)
Günther's Frog <i>Rana guentheri</i>	157	293	115	82	342	172	127	73	65	78
Two-striped Grass Frog <i>Rana taipehensis</i>	2	-	2	-	-	-	-	-	-	-
Brown Tree Frog <i>Polypedates megacephalus</i>	33	7	3	6	6	1	5	7	5	4
American Bullfrog <i>Lithobates catesbeianus</i>	-	-	-	-	-	-	-	1	-	-
Greenhouse Frog <i>Eleutherodactylus planirostris</i>	-	-	-	-	-	-	-	-	-	3
<b>Number of species recorded</b>	<b>9</b>	<b>7</b>	<b>5</b>	<b>4</b>	<b>5</b>	<b>8</b>	<b>7</b>	<b>7</b>	<b>6</b>	<b>6</b>

Maximum count (per survey) is indicated in the table; for Chinese Bullfrog, the number in brackets are the total number of individuals recorded in the year.

<sup>#</sup> Include data from January to June.



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### Dragonfly Findings since 2006

Dragonfly Recorded as Adults or Exuviae at LMC EEA	2006-2013	2014	2015	2016*	2017*	2018	2019	2020	2021	2022 <sup>#</sup>
Number of Species Recorded	30	21	17	21	25	21	24	24	27	21
Total Number of Species Recorded	35									

Key: \* A Midget species was also recorded.

<sup>#</sup> include data from January to June.

Species recorded are presented in Appendix for reference.



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### Improvement Works

- Pond reprofiling works at Ponds 16 – 18 and 20a are completed;
- Modification of boundary fences (target to complete in 2022);
- Construction of artificial otter holts (target to complete in 2022); and
- Upgrading power supply system (target to complete in 2022).



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### Thank You



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