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Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme 2013 - 14

Monthly Waterbird Monitoring

Biannual Report 1 (April to September 2013)

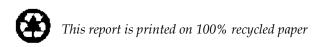


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The Hong Kong Bird Watching Society
Approved Charitable Institution of a Public Character

to Agriculture, Fisheries & Conservation Department

Hong Kong SAR Government

December 2013



Contract Reference No.: AFCD/SQ/57/13

Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme 2013-14

Waterbird Count Coordinator

YU Yat-tung The Hong Kong Bird Watching Society

Data Contributors

Bonnie CHAN, CHAN Ka-ho, Gary CHOW, Emily CHOW. Camille CHUNG, Forest FONG, Helen FONG, Vivian FU, Bowie FUNG, Martin HALE, John and Jemi HOLMES, Tony HUNG, HUNG Wai-ming, Aaron KEUNG, LAI Nga-yee, Alan LAM, Shirley LAM, Roger LEE, Austin NG, SO Ying-kin, Graham TALBOT, Ivan TSE, Captain WONG, YING Hak-king and YU Yat-tung, The Hong Kong Bird Watching Society, Shenzhen Bird Watching Society, Agriculture, Fisheries and Conservation Department

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Report available for public information

Agriculture, Fisheries and Conservation Department Hong Kong SAR Government 7/F, Cheung Sha Wan Government Offices 303 Cheung Sha Wan Road Kowloon, Hong Kong

E-mail: faunaenq@afcd.gov.hk Website: www.afcd.gov.hk

And

The Hong Kong Bird Watching Society 7/C, V Ga Building, 532 Castle Park Road, Lai Chi Kok, Kowloon, Hong Kong E-mail: hkbws@hkbws.org.hk Website: www.hkbws.org.hk

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Monthly Waterbird Monitoring Biannual Report 1 (April to September 2013)

Report



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation Department

Monthly Waterbird Monitoring Biannual Report 1

1. Introduction

Comprehensive counts of waterbirds in the Deep Bay area undertaken by the Hong Kong Bird Watching Society (HKBWS) were inaugurated as part of the Wetlands International - Asian Waterbird Census in 1979. These continued every January (excluding 1980) until 1992-93, when the duration of the counts was extended to cover the winter period from November to March as the HKBWS "Winter Waterbird Count". After the designation of the Mai Po Inner Deep Bay Ramsar Site, a monthly waterbird monitoring programme was developed and has been coordinated by the HKBWS since 1998 with support from the Agriculture, Fisheries and Conservation Department (AFCD), and it became a contract project since 2004. Monthly counts of waterbirds in the site form a major part of the programme, supplemented by counts of shorebirds during the migration seasons and egretry surveys during the breeding season. Monthly summary reports are compiled, and seasonal reports are produced bi-annually, i.e. Biannual Report 1, covering the period from April to September, and Biannual Report 2, covering October to March of the succeeding year. This report summarises the results of monthly waterbird counts in the period from April to September 2013 under the contract referenced AFCD/SQ/57/13.

2. Methodology

The methodology adopted is described in detail in the *Waterbird Count Handbook* (Carey undated, Carey 2002) and the areas covered in this monitoring are shown in Maps 1 to 3. It involves recording the number of birds in individual fishponds, or *gei wais*, at specified areas. The inter-tidal areas of Inner Deep Bay were surveyed simultaneously to avoid double-counting as far as possible. Counts were conducted during rising tide, preferably at a tidal height of about 2.2m. To increase the accuracy of data recorded, counts of individual species recorded one week before or after the counting day were adopted if the number was higher than that taken on the counting day.

The numbers of waterbirds presented in this report were obtained mainly from the counting sites in two main survey areas: the Mai Po Inner Deep Bay (the Ramsar Site) and the wetland areas at and around the Ramsar Site (the 'Deep Bay area'). The latter area included the mudflat between Tsim Bei Tsui and Lau Fau

Shan, the fishpond areas in Ma Tso Lung (Hoo Hok Wai), Sam Po Shue, San Tin, Mai Po San Tsuen, Tam Kon Chau, Tai Sang Wai, Lut Chau, Luen Hing Wai, Wing Kei Tsuen, Nam Sang Wai, Tsim Bei Tsui and Tin Shui Wai. The survey also covered Hong Kong Wetland Park in Tin Shui Wai and the Futian National Nature Reserve in the Shenzhen Special Economic Zone in Mainland China. Maps 1, 2 and 3 show the location of all the survey sites within the survey area. The coverage of the survey area was the same as that of the preceding winter period (Anon 2013a).

3. Results

In summer 2013, the monthly waterbird monitoring was conducted on 14 April, 12 May, 9 June, 21 July, 18 August and 8 September ('survey period').

The total number of waterbirds recorded in the Deep Bay area was 19,191 in April, 4,712 in May, 1,367 in June, 2,612 in July, 4,022 in August and 4,434 in September. The corresponding records at the Ramsar Site were 10,622, 3,029, 706, 1,190, 1,880 and 2,251, respectively. There were a total of 76 waterbird species recorded in the Deep Bay area during the survey period. The pattern of changes of waterbird numbers between April and September from 2009 to 2013 are shown in Figures 1 and 2.

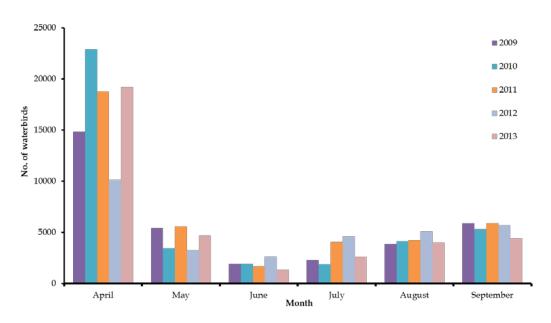


Figure 1. Waterbird numbers in the Deep Bay area from April to September, 2009-2013.

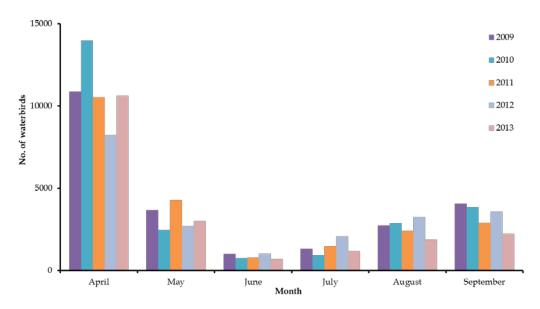


Figure 2. Waterbird numbers in the Ramsar Site from April to September, 2009-2013.

Results of the monthly counts conducted between April and September from 2009 onwards are presented in Tables 1a and 1b. Details of the counts in summer 2013 are reported in the monthly summaries which are available in Appendix 1.

Summaries of the counts are presented in Tables 2a to 2f and Tables 3a and 3b. Sections 3.1 to 3.7 discuss the results collected in April to September 2013 with reference to specific waterbird groups and globally threatened species that were recorded.

3.1 Great Cormorant

The Great Cormorant *Phalacrocorax carbo* is mainly a winter visitor to the Deep Bay area, so very few individuals were recorded during the period from April to September. A maximum of eight individuals were recorded in April, with fewer in other months and no sightings were recorded in July and September.

3.2 Ardeids

The highest count of this waterbird group in summer 2013 was 2,567 individuals, recorded in April, a slight decrease of 9% from the highest count of the preceding year (2,832 individuals in July 2012, Figure 3). This decrease was possibly related to the fall in the number of Ardeid's in the Futian National Nature Reserve, Shenzhen, as the peak count dropped 69% from that of the preceding year (2012: 1,656 individuals; 2013: 521 individuals). In terms of individual species, the highest count was 1,071 Little Egrets *Egretta garzetta*, recorded in April. The Great Egret *Ardea alba*, a species of regional conservation

concern, also had a high count of 689 in July. The Chinese Pond Heron *Ardeola bacchus* had a high count of 326 individuals in August, representing an increase of 7% from the record of the preceding year (302 individuals).

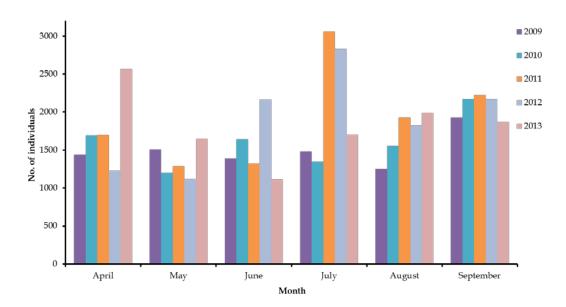


Figure 3. Number of Ardeids in the Deep Bay area from April to September, 2009-2013.

Under the Waterbird Monitoring Programme, egretry monitoring was also undertaken from April to July 2013 to record the number of nests of ardeids at known breeding sites in Hong Kong, with reference to the Mai Po Inner Deep Bay Ramsar Site. Further details of the monitoring result can be found in the Summer 2013 Report: Egretry Counts in Hong Kong (Anon, 2013b).

3.3 Ducks and Grebes

As many ducks returned to their breeding grounds in northeast Asia during the summer, only low numbers were recorded from April to September. The highest count was 249 individuals in April, which was 30% lower than that of the previous year (Figure 4). The counts in June, July and September were also lower, while the counts in May and August were higher than the corresponding records of the previous year. The highest single species count of this group was 160 Little Grebes *Tachybaptus ruficollis*, recorded in April, and the record of 29 Garganeys *Anas querquedula* in April was also a high number for this group during the study period.

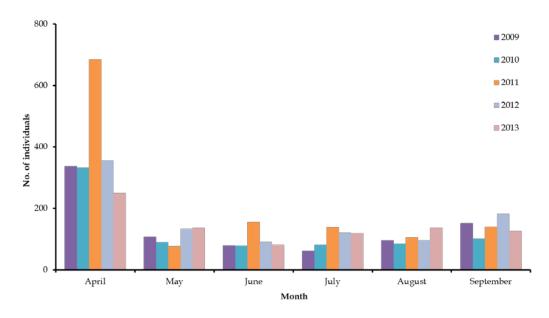


Figure 4. Number of Ducks and Grebes in the Deep Bay area from April to September, 2009-2013.

3.4 Rails and Coots

This group of waterbirds is usually recorded in low numbers compared to the other waterbird groups, as most of them are secretive and are small in size. The two most common species were White-breasted Waterhens *Amaurornis phoenicurus* and Common Moorhens *Gallinula chloropus*. The highest count of this group was 178 individuals, recorded in April, a significant increase of 87% over that of the previous year. Only one Eurasian Coot *Fulica atra* was recorded in April.

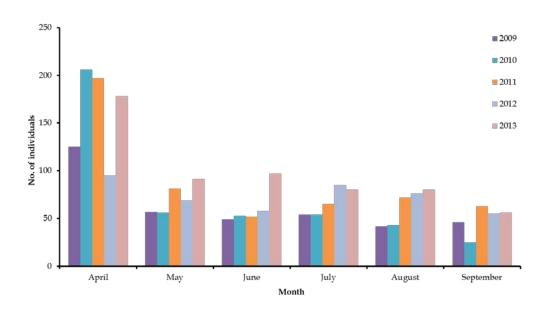


Figure 5. Number of Rails and Coots in the Deep Bay area from April to September, 2009-2013.

3.5 Shorebirds

In spring, a large number of passage shorebirds were recorded in the Deep Bay area. A total of 15,940 shorebirds were recorded in April, an increase of 92% compared with the record of April 2012 (8,281 individuals). The figures in April and May were also significantly higher than those of the preceding year (April 2013: 15,940 birds; April 2012: 8,281 birds; May 2013: 2,728 birds; May 2012: 1,952 birds), while the shorebird numbers in June, July and August were lower (June 2013: 75 birds, June 2012: 314 birds; July 2013: 708 birds, July 2012: 1,588 birds; August 2013: 2,374 birds, August 2012: 3,120 birds). In terms of individual species, the highest count was for the Pied Avocet *Recurvirostra avosetta*, with 3,322 individuals recorded in April and many of them lingering in the Deep Bay area until May. The second highest count was for Black-tailed Godwits *Limosa limosa*, with 1,924 recorded in April.

A few breeding species of shorebirds which had previously bred in the Deep Bay area were recorded. In July a total of 47 Black-winged Stilts *Himantopus himantopus* were recorded, which regularly bred in the Mai Po Marshes Nature Reserve in several previous years, but the presence of stray dogs created extensive disturbances at their previous known breeding sites in the reserve, causing a low number of this species this summer. Also, breeding was thought to be unsuccessful this summer. Another breeding species, the Greater Painted-snipe *Rostratula benghanlensis*, is secretive and difficult to detect. The highest count was of only one individual, which was recorded in May, but other observations provided by volunteers via the HKBWS website indicated that the species was still breeding in the reserve during the study period.

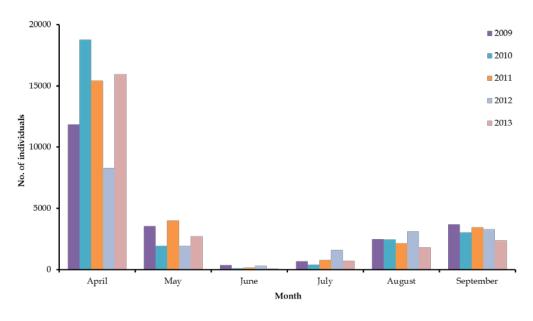


Figure 6. Number of Shorebirds in the Deep Bay area from April to September, 2009-2013.

3.6 Gulls and Terns

The highest count of gulls and terns was 249 individuals, recorded in April, which was a significant increase of 47% compared to that of the previous year. The counts from June to August revealed smaller numbers, as many wintering individuals, including Black-headed Gulls *Chroicocephalus ridibundus* had returned to their breeding grounds. The Gull-billed Tern *Gelochelidon nilotica*, which stops over in the Deep Bay area in spring, was the most numerous, with 132 individuals recorded in April.

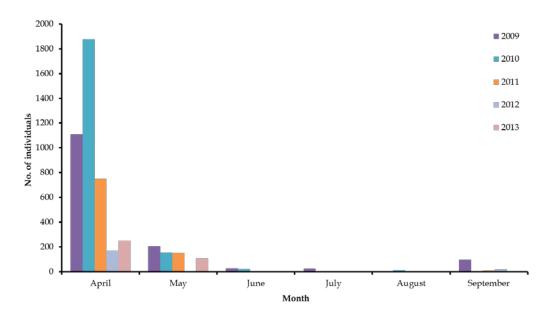


Figure 7. Number of Gulls and Terns in the Deep Bay area from April to September, 2009-2013.

3.7 Globally threatened species

Several globally threatened waterbird species were recorded in summer 2013 as follows:

Black-faced Spoonbill *Platalea minor* (globally endangered) – A high of 165 individuals were counted in April, though the number dropped to 33 in May, and only three immature birds were recorded in June, August and September.

Black-tailed Godwit *Limosa limosa* (globally near threatened) – The highest count in this summer was 1,924 individuals recorded in April. The number dropped to 39 individuals in May and zero in June. One individual was recorded in July and numbers rose to 67 in August and 246 individuals in September.

Eurasian Curlew *Numenius arquata* (globally near threatened) – Only 23 individuals were recorded in April, 13 in May, and 12 in June, but the number increased to 36 in July, 33 in August and 38 in September.

Nordmann's Greenshank *Tringa guttifer* (globally endangered) – Only seven individuals were recorded in April, and one in May and June.

Asian Dowitcher *Limnodromus semipalmatus* (globally near threatened) – Only 12 individuals were recorded in April and 7 in August.

Great Knot *Calidris tenuirostris* (globally vulnerable) – Low numbers were recorded, with only 94 individuals in April, 3 in May, 1 in June and 7 in September.

Spoon-billed Sandpiper *Eurynorhynchus pygmeus* (globally critically endangered) – Only one individual was recorded in April.

4. Discussion

The overall average number of waterbirds in the Deep Bay area was higher than that in the same period (Apr to Sept) of the previous year (2013: mean = 6,056, SD = 6,557, n = 6; 2012: mean = 5,251, SD = 2,653, n = 6), while the average number recorded in the Ramsar Site was lower (2013: mean = 3,280, SD = 3,687, n = 6; 2012: mean = 3,484, SD = 2,497, n = 6). The higher overall average number of waterbirds in the Deep Bay area this summer was attributed to the spring passage migrants in April and May. The lower proportion of waterbirds in the Ramsar Site this summer (2013: 54%; 2012: 66%) might reflect the high tide roosting site preference of the waterbirds. Surveyors reported a low number of waterbirds in *gei wais* in the Mai Po Marshes Nature Reserve, which is the major high tide roosting site in the Ramsar Site, probably due to high water levels and pond re-profiling works during the study period.

5. Acknowledgements

We are indebted to the following counters from the Hong Kong Bird Watching Society for their participation in the counts to collect baseline information for this biannual report: Bonnie Chan, Chan Ka-ho, Gary Chow, Emily Chow, Camille Chung, Forrest Fong, Helen Fong, Vivian Fu, Bowie Fung, Martin Hale, John and Jemi Holmes, Tony Hung, Hung Wai-ming, Aaron Keung, Lai Nga-yee, Alan Lam, Shirley Lam, Roger Lee, Austin Ng, So Ying-kin, Graham Talbot, Ivan Tse, Captain Wong, Ying Hak-king and Yu Yat-tung. We also thank members of the Shenzhen Bird Watching Society and the staff of Hong Kong Wetland Park for providing their records.

6. References

Anon. 2013a. Winter 2012-13 Report on Waterbird Monitoring Programme at the Mai Po Inner Deep Bay Ramsar Site. Report by The Hong Kong Bird Watching Society to the Agriculture, Fisheries and Conservation Department, Hong Kong Special Administrative Region Government.

Anon, 2013b. Summer 2013 Report: Egretry Counts in Hong Kong with particular reference to the Mai Po Inner Deep Bay Ramsar Site. Report by The Hong Kong Bird Watching Society to the Agriculture, Fisheries and Conservation Department, Hong Kong Special Administrative Region Government.

Carey, G.J. 2002. Waterbird Count Handbook: A guide for participants in waterbird counts in Hong Kong. Hong Kong Bird Watching Society. Hong Kong.

Carey, G.J. undated. Waterfowl Count Handbook. Waterfowl Monitoring at the Mai Po Inner Deep Bay Ramsar Site. Hong Kong Bird Watching Society. Hong Kong.

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Maps

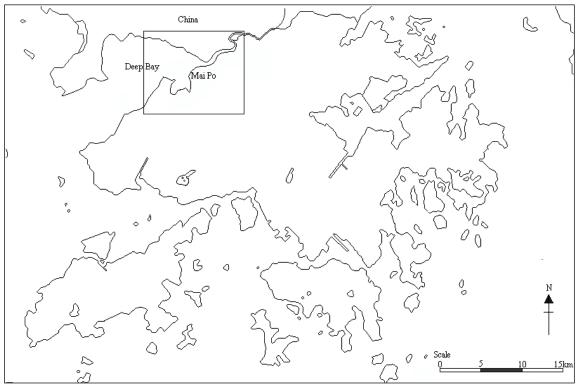


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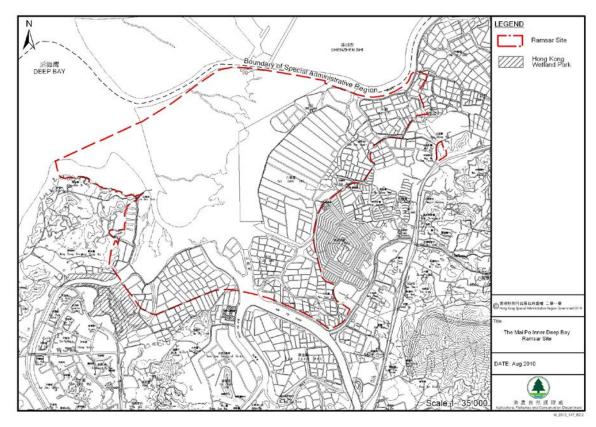


Agriculture, Fisheries and Conservation Department

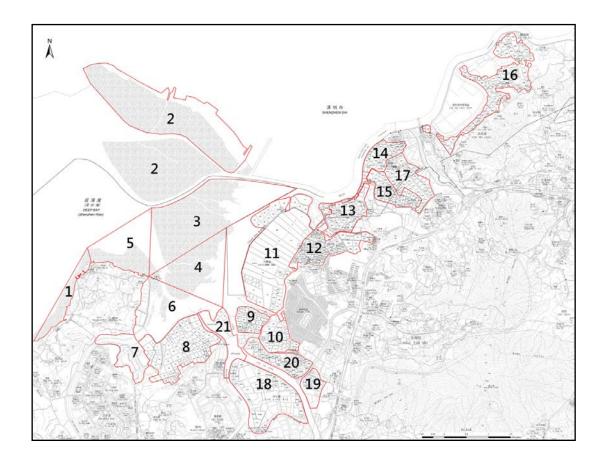
Map 1. Map of Hong Kong showing the location of the Mai Po Inner Deep Bay Ramsar Site.



Map 2. Boundary of the Mai Po Inner Deep Bay Ramsar Site.



Map 3. Locations of counting areas in the Waterbird Monitoring Programme (1: Tsim Bei Tsui to Nim Wan; 2: Deep Bay 'A'; 3: Deep Bay 'B'; 4: Deep Bay 'C'; 5: Deep Bay 'D'; 6: Deep Bay 'E'; 7: Hong Kong Wetland Park; 8: Deep Bay 'F' (Tsim Bei Tsui fishpond); 9: Lut Chau; 10: Tai Sang Wai; 11: Mai Po Marshes Nature Reserve; 12: Tam Kon Chau; 13: Mai Po San Tsuen; 14: Shenzhen River 'A'; 15: San Tin; 16: Shenzhen River 'B'; 17: Sham Po Shue; 18: Nam Sang Wai; 19: Wing Kei Tsuen; 20: Luen Hin Wai; 21: Shan Pui River.)



Monthly Waterbird Monitoring Biannual Report 1 (April to September 2013)

Tables



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation Department

Table 1a. Numbers of waterbirds in the Deep Bay area between April and September, 2009-2013.

	2009	2010	2011	2012	2013	Mean	SD
April	14865	22884	18759	10131	19191	14546	5830
May	5439	3433	5615	3278	4712	4946	2159
June	1927	1919	1694	2633	1367	1975	714
July	2315	1881	4068	4628	2612	3002	868
August	3879	4147	4235	5117	4022	4079	801
September	5913	5333	5899	5717	4434	5629	1165

Figures of mean and SD are calculated from the commencement of this programme in 1998 to the latest count. n/c = no count.

Table 1b. Numbers of waterbirds in the Ramsar Site between April and September, 2009-2013.

	2009	2010	2011	2012	2013	Mean	SD
April	10871	13973	10534	8232	10622	10336	2731
May	3695	2474	4275	2698	3029	3876	1868
June	1011	746	805	1030	706	1055	439
July	1322	951	1471	2094	1190	1601	546
August	2761	2879	2406	3270	1880	2611	508
September	4059	3862	2904	3579	2251	3665	749

Figures of mean and SD are calculated from the commencement of this programme in 1998 to the latest count. n/c = no count.

Table 2a. Summary of waterbird counts for April 2013.

	Deep Bay Area	%	Ramsar Site	%	Starling Inlet
Cormorants	8	0	4	0	0
Ardeids	2567	13	981	9	138
Ducks, grebes, pelicans	249	1	138	1	5
Rails and coot	178	1	52	0	14
Shorebirds	15940	83	9300	88	12
Gulls and terns	249	1	147	1	0
Total	19191	100	10622	100	169

Table 2b. Summary of waterbird counts for May 2013.

	Deep Bay Area	0/0	Ramsar Site	%	Starling Inlet
Cormorants	3	0	1	0	0
Ardeids	1644	35	718	24	155
Ducks, grebes, pelicans	137	3	53	2	6
Rails and coot	91	2	43	1	7
Shorebirds	2728	5	2186	72	1
Gulls and terns	109	2	28	1	0
Total	4712	100	3029	100	169

Table 2c. Summary of waterbird counts for June 2013.

	Deep Bay Area	%	Ramsar Site	%	Starling Inlet
Cormorants	1	0	0	0	0
Ardeids	1112	81	590	84	116
Ducks, grebes, pelicans	81	6	26	4	1
Rails and coot	97	7	19	3	2
Shorebirds	75	5	71	10	0
Gulls and terns	1	0	0	0	0
Total	1367	100	706	100	119

Table 2d. Summary of waterbird counts for July 2013.

	Deep Bay Area	%	Ramsar Site	%	Starling Inlet
Cormorants	0	0	0	0	0
Ardeids	1702	65	670	56	115
Ducks, grebes, pelicans	120	5	43	4	0
Rails and coot	80	3	14	1	5
Shorebirds	708	27	461	39	0
Gulls and terns	2	0	2	0	0
Total	2612	100	1190	100	120

Table 2e. Summary of waterbird counts for August 2013.

	Deep Bay Area	0/0	Ramsar Site	%	Starling Inlet
Cormorants	4	0	0	0	0
Ardeids	1986	49	771	41	102
Ducks, grebes, pelicans	137	3	36	2	1
Rails and coot	80	2	17	1	0
Shorebirds	1809	45	1056	56	0
Gulls and terns	6	0	0	0	0
Total	4022	100	1880	100	103

Table 2f. Summary of waterbird counts for September 2013.

	Deep Bay Area	%	Ramsar Site	%	Starling Inlet
Cormorants	0	0	0	0	0
Ardeids	1870	42	712	32	67
Ducks, grebes, pelicans	127	3	60	3	1
Rails and coot	56	1	14	1	2
Shorebirds	2374	54	1461	65	9
Gulls and terns	7	0	4	0	0
Total	4434	100	2251	100	79

Table 3a. Numbers of waterbird species groups in the Deep Bay area from April to September 2013.

	April	May	June	July	August	September
Cormorants	8	3	1	0	4	0
Ardeids	2567	1644	1112	1702	1986	1870
Ducks, grebes, pelicans	249	137	81	120	137	127
Rails and coot	178	91	97	80	80	56
Shorebirds	15940	2728	75	708	1809	2374
Gulls and terns	249	109	1	2	6	7

Table 3b. Numbers of waterbird species groups in the Ramsar Site from April to September 2013.

	April	May	June	July	August	September
Cormorants	4	1	0	0	0	0
Ardeids	981	718	590	670	771	712
Ducks, grebes, pelicans	138	53	26	43	36	60
Rails and coot	52	43	19	14	17	14
Shorebirds	9300	2186	71	461	1056	1461
Gulls and terns	147	28	0	2	0	4

Monthly Waterbird Monitoring Biannual Report 1 (April to September 2013)

Appendices



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation Department

Summary of Waterbird Counts, April 2013

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SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	SPR	NSW	LHW	WEP	Sha Kiu	NW / LFS	TKC	LC	TSW	MPST	ST	SPS	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	12	26	4				7	10	2	1	15				26		5	9	8	7	28	43	7	12	160	5
Great Crested Grebe			2		1																		1		3	
Great Cormorant	3		1															1			3	1		3	8	
Dalmatian Pelican																									0	
Grey Heron	6	3	3		1	1		6	1	13	2	16		1	1	4	1	2		1	82	10	8	6	144	8
Purple Heron										1															1	
Great Egret	5	241	162	56	20	2		26	1	15	5	3		8	32	2	24	21	1	8	29	96	85	5	661	105
Intermediate Egret	2	4		11											8	1	1				7	10	11	2	34	
Little Egret	5	383	99	43	39	13	2	11	30	80	21	9	2	30	142	12	41	26	22	13	48	235	126	5	1071	13
Swinhoe's Egret																									0	
Pacific Reef Egret																									0	
Cattle Egret	18	26						1			2			33		1	10	12	11	8	19	24		18	141	10
Chinese Pond Heron	16	28	12	3			4	1	1	17	18	1	1	5	22	10	9	19	20	13	13	72	8	16	213	2
Striated Heron																					1				1	
B-c Night Heron	2	5	99	2	1		1		1	1	3			2	1		1	3	3		5	8	5	2	130	
Yellow Bittern										2	1											1			3	
Cinnamon Bittern	1																							1	1	
Great Bittern																					1				1	
Black Stork																									0	
Black-headed Ibis																									0	
Eurasian Spoonbill	1																							1	1	1
Black-faced Spoonbill	67	4	2									14		1	3		10				64	13		67	165	1
Common Shelduck			_												_										0	
Eurasian Wigeon			8	2																	14		2		24	1
Falcated Duck																							_		0	1
Gadwall																									0	1
Baikal Teal																									0	1
Common Teal																									0	1
Mallard																									0	
Spot-billed Duck																									0	1
Chinese Spotbill																1									0	1
Burmese Spotbill																									0	
Northern Pintail	1																							1	1	1
Garganey	1			25								4											25		29	1
Northern Shoveler			2	10						2		6									8		10		28	
Common Pochard				10						Ē													10		0	
Baer's Pochard				1												\vdash	1								0	<u> </u>
Tufted Duck										2					2										4	
Greater Scaup																									0	
Red-breasted Merganser																									0	
Duck sp.		1		 			1		1	1	1				1		1								0	
Slaty-breasted Rail		1		+			1		 	1	 	1	<u> </u>		1	\vdash	1						+		0	
Water Rail		1		+		 	+		 	-	 	-			-	\vdash	+								0	
White-breasted Waterhen	2	11	4	+	 			6		2	5	1			2	1	1	4	5	2	2	16	+	2	48	3
Watercock		11	+	+	 			U)	1				1	1	+	٦			10	+		0	3
Common Moorhen	6	2	52	+			1	9	 	5	2	6		2	15	1	\vdash	2	7	7	14	20		6	129	11
	U		1	+			1	7		J		U			1.0	\vdash	1		/		14	20	1	U	129	11
Eurasian Coot			1	1		l	l	<u> </u>	<u> </u>		<u> </u>	l	<u> </u>		ļ	<u> </u>		l	l	l		l			1	

General Principle	Pheasant-tailed Jacana		I	1	1	I	I					l	I 1	Ī	I	I	1 1	ı	1	ı	1	1		1	1	0	<u> </u>
Black-bringed Stiff																										0	
Pink All Archest 1				39							21		6					1	2	1		185	3			255	
October Appring S		1																12*							1		
Northern Layreving Grown of March Layreving	Oriental Pratincole		5																								
Grey-Morely Components	Northern Lapwing																									0	
Pacific Goldon Brower			1								7											2				10	
Gey Plover Common Ringed Plove				250													2						2			255	1
Common Ringed Plover																											
Little Ringay Provency St St St St St St St S																											
Kentis Plover			8										3					7	1	3	4		8				
Leaser Sand Plover					15								_								-			15			
Greater And Prover Greater Sand Prover Greater Sa																											
Ocean Device Ocean				20*									3								2	90					
Black-stalled Godwit													_								_						
Bartalled Godwith Mark M																		3					3				
Whimber Whim																											
Eurasian Curlew														2													
Far Eastern Curdew Far Easte														<u> </u>													
Sported Redshamk					4																			4			
Common Redshank				8							27		52									48					
Marsh Sandpiper	-													8				2.					2.				
Common Greenshank 2																											
Nordman's Greenshank		2.	3							10			201	1	2.	4			2.	4	2.				2.		8
Green Sandpiper																				•							
Mood Sandpiper Mood		1	4						2.			1				1		1	1	2.			6		1		
Terek Sandpiper Terek Sandpiper		-		1							16	1	22								4	41			-		
Common Sandpiper 21				3																	-						
Grey-tailed Tattler Grey-tailed Sandpiper Grey-t			21					1	3	2	10	10	2	2	9	13	4	12	8	20	4		44	3			
Ruddy Turnstone Image: Control of the con													_								-						
Red-necked Phalarope Red-necked Stint																						5				_	
Pintail Snipe Image: Common Snipe Snipe Image: Common Snipe Sn					1																			1			3
Swinhoe's Snipe																								_			
Printal/Swinhoe's Snipe 11 3 Image: Common Snipe of																										0	
Common Snipe 43 1 I <		11	3																		1	3			11	_	
Snipe spp. Image: Company of the composition of t				1												1	2.		3	2.		1	5				
Long-billed Dowitcher Congression Cong																				<u> </u>	15						
Asian Dowitcher Red Knot Red Knot Red Knot Red Snot																											
Red Knot Image: Control of the control of													1									11					
Great Knot Image: Control of the control																											
Sanderling Image: Control of the control																											
Red-necked Stint																											
Little Stint			4*	5*	1770										12*			55*			10*			1770			
Temminck's Stint 4 5 6 Long-toed Stint 11 1 <t< td=""><td>Little Stint</td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Little Stint		-																								
Long-toed Stint 11 1			4																		2					_	
Pectoral Sandpiper Image: Control of Sandpiper Image:					1											1		8					9	1			
Sharp-tailed Sandpiper 42 5 20 25 42 68 Dunlin 1 1 410* 4						t										Ė		,						_	<u> </u>		
Dunlin 1 1 8 1 8 1 <td></td> <td></td> <td></td> <td></td> <td>42.</td> <td>t</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>5</td> <td></td> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td>25</td> <td>42.</td> <td><u> </u></td> <td></td> <td></td>					42.	t					1					5		20					25	42.	<u> </u>		
Curlew Sandpiper 5100 4410* 62 510 5162					1	t																			<u> </u>		
				5100	4410*	t							62											•	<u> </u>		
	Spoon-billed Sandpiper	1		5100	1								32											1		1	

Broad-billed Sandpiper	İ		Ī	97	1	I	l	l	I	İ		1 1		l	I	ĺ			l	l	1	1	97		97	1 1
Ruff																					1				1	
Small wader spp.																									0	
Wader sp.																									0	
Black-tailed Gull																									0	
Heuglin's Gull			6																						6	
Yellow-legged Gull																									0	
Slaty-backed Gull																									0	
Pallas's Gull																									0	
Large Gull spp.																									0	
Brown-headed Gull																									0	
Black-headed Gull		1	82																1						84	
Saunders's Gull			1																						1	
Whiskered Tern				2												4				11		4	2		17	
White-winged Tern																									0	
Gull-billed Tern				132																			132		132	
Little Tern				2																			2		2	
Caspian Tern				7																			7		7	
Total	162	885	6178	2245	62	16	15	75	48	311	86	631	16	93	313	43	168	120	115	104	7505	733	2384	10622	19191	169
	Deep	%	Ramsar	%	SI	%																				
	Bay Area		Site																							
Cormorants	8	0%	4	0%	0	0%																				
Ardeids etc	2567	13%	981	9%	138	82%																				
Ducks, grebes, pelicans	249	1%	138	1%	5	3%																				
Rails, coot etc	178	1%	52	0%	14	8%	ļ																			
Shorebirds	15940	83%	9300	88%	12	7%																				
Gulls and terns	249	1%	147	1%	0	0%	ļ																			
TOTAL	19191	100%	10622	100%	169	100%																				
Date of count: 14 Apr 2013																										
	High tide	measure	d at TBT: 2	.5m																						
* indicates count consists of o	or includes a	count n	nade up to	one week	either si	de of th	e cou	nt date																		
Wetland-dependent species																	<u> </u>									
SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	SPR	NSW	LHW	WEP	Sha Kiu	NW / LFS	TKC	LC	TSW	MPST	ST	SPS	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Osprey				1																				0	1	
Black Kite										3	3				2		3	1			14	8		22	26	
White-bellied Sea Eagle																								0	0	
Eastern Marsh Harrier																								0	0	
Common Buzzard																								0	0	
Greater Spotted Eagle																								0	0	
Imperial Eagle																								0	0	
Peregrine Falcon				1																				0	1	
Pied Kingfisher		5	7							2							1	2	3		1	3		4	21	1
Common Kingfisher	2	9						1		3	4	1			2	2		7			2	14		16	33	
White-throated Kingfisher	2	1	1												<u> </u>		<u> </u>		1					0	5	
Black-capped Kingfisher				1																			1	1	1	1
Red-billed Starling	1														<u> </u>		<u> </u>							0	0	
Collared Crow		1	3					1		1	1				1	1	2				7	5		12	18	

Summary of Waterbird Counts, May 2013

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD		DBF (TBT)			LHW	1		NW /	ткс			MPST	ST	SPS	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	32	13	5				2	6			10		2224	210	10		2	20	6	13	11	34	2	47	130	6
Great Crested Grebe																			Ť				_	0	0	
Great Cormorant	2								1														1	1	3	
Dalmatian Pelican																								0	0	
Grey Heron	2		1						3			1			1		1				12	2	3	17	21	5
Purple Heron										3											1		_	1	4	
Great Egret	14	34	208	26	31	4	1	53	5	5	7	3	1	5	23		12	28	10	13	75	107	68	250	558	118
Intermediate Egret		1		4			1										2	1	2	2	4	3	5	12	17	
Little Egret	4	24	214	21	42	12	1	41	10	3	10	5	1	11	71	5	14	20	13	34	57	141	85	283	613	15
Swinhoe's Egret																								0	0	
Pacific Reef Egret																								0	0	
Cattle Egret	2	4						5			1				3		28	7	3	3	4	42		46	60	10
Chinese Pond Heron	5	24	20					5	3	4	8			16	19	2	4	15	19	23	5	45	2	52	172	2
Striated Heron				1																	3			3	3	1
B-c Night Heron	17	24	70	1	2		3	4	2	3				1	7		2	8	2	4	4	15	7	26	153	4
Yellow Bittern		1	1	1				1		2	1	2			1			1				4		4	10	
Cinnamon Bittern																								0	0	
Great Bittern																								0	0	
Black Stork																								0	0	
Black-headed Ibis																								0	0	
Eurasian Spoonbill																								0	0	
Black-faced Spoonbill			7	1					1			2									22		2	24	33	
Common Shelduck																								0	0	
Eurasian Wigeon																					3			3	3	
Falcated Duck																								0	0	
Gadwall																								0	0	
Baikal Teal																								0	0	
Common Teal																								0	0	
Mallard																								0	0	
Spot-billed Duck																								0	0	
Chinese Spotbill																								0	0	
Burmese Spotbill																								0	0	
Northern Pintail																								0	0	
Garganey												1												0	1	
Northern Shoveler																								0	0	
Common Pochard																								0	0	
Baer's Pochard																								0	0	
Tufted Duck																					3			3	3	
Greater Scaup																								0	0	
Red-breasted Merganser																								0	0	
Duck sp.																								0	0	
Slaty-breasted Rail																								0	0	
Water Rail																								0	0	
White-breasted Waterhen	7	16	2					5		5	4	3		1	14		4	4	2	3	1	28		29	71	7
Watercock																								0	0	
Common Moorhen			5	1				2			2	1			3			2			4	8	2	14	20	

Eurasian Coot	Ī	I	Ī	I	I		I	1	1 1			l	I	ĺ		l	1	1			İ	0	0	
Pheasant-tailed Jacana																			1			1	1	
Greater Painted Snipe																			1			1	1	
Black-winged Stilt		1									1					2	2		9	2		11	15	
Pied Avocet			1								4						_		923			923	928	
Oriental Pratincole																			7			0	0	
Northern Lapwing																						0	0	
Grey-headed Lapwing																						0	0	
Pacific Golden Plover				5																	5	5	5	
Grey Plover																			33			33	33	
Common Ringed Plover																			33			0	0	
Little Ringed Plover		1															11		1			1	13	
Kentish Plover		•															- 11		•			0	0	
Lesser Sand Plover																			30			30	30	
Greater Sand Plover											1								113			113	114	
Black-tailed Godwit	+	 	<u> </u>	 	 		1				1					1			39			39	39	
Bar-tailed Godwit	†		<u> </u>	1	<u> </u>		 									1			2			2	2	
Whimbrel	+	 	<u> </u>	 	 	1	1									1			24		1	25	25	
Eurasian Curlew	+	 	<u> </u>	 	 	1	1									1			13		1	13	13	
Far Eastern Curlew																			1			1	1	
Spotted Redshank											18								36			36	54	
Common Redshank			17								46								194			194	257	
Marsh Sandpiper			17	1							1								4		1	5	6	
Common Greenshank			4	1							53		2						263	2	1	265	322	
Nordmann's Greenshank			-								33								1			1	1	
Green Sandpiper																		1	1			0	1	
Wood Sandpiper	1	1									1		1					1		1		1	4	
Terek Sandpiper	1	•	4	†							1		-						108	1		108	113	
Common Sandpiper	1	5	9								1	1	2	2	1	4	2			8		8	28	1
Grey-tailed Tattler				12																	12	12	12	
Ruddy Turnstone																			4			4	4	
Red-necked Phalarope																						0	0	
Pintail Snipe																						0	0	
Swinhoe's Snipe																						0	0	
Pintail/Swinhoe's Snipe																						0	0	
Common Snipe																						0	0	
Long-billed Dowitcher																						0	0	
Asian Dowitcher																						0	0	
Red Knot	1			1			1									1			71			71	71	
Great Knot	1	1	İ	1	1														3			3	3	
Sanderling	1	1	İ	1	1																	0	0	
Red-necked Stint		273									75								143			143	491	
Little Stint																						0	0	
Temminck's Stint	1			†			1															0	0	
Long-toed Stint	1			1			1									1	2					0	2	
Pectoral Sandpiper	1			†			1															0	0	
Sharp-tailed Sandpiper	†	2	t	†	t											<u> </u>			119			119	121	
Dunlin	†		t	†	t											<u> </u>			/			0	0	
Curlew Sandpiper	†	t	t	†	t											<u> </u>			6			6	6	
Spoon-billed Sandpiper	†	t	t	†	t											<u> </u>			<u> </u>			0	0	
Broad-billed Sandpiper	†		<u> </u>	1	1		 									1			12			12	12	
Diodd office Ballepipel	1	l	1	1	1	<u> </u>	1	l					I			1	l	l	14		l	1 4	12	

Ruff	I	l	İ	I		1	l	1	l	I	I	1	l	I	I	1 1	ı	I	l	I	I	I	1 1	0	0	
Small wader spp.																								0	0	
Wader sp.																								0	0	
Black-tailed Gull																								0	0	
Heuglin's Gull																								0	0	
Yellow-legged Gull																								0	0	
Slaty-backed Gull																								0	0	
Pallas's Gull																								0	0	
Large Gull spp.																								0	0	
Brown-headed Gull																								0	0	
Black-headed Gull			1																					0	1	
Saunders's Gull			1																					0	0	
Whiskered Tern															49	3				26		9		9	78	
White-winged Tern															24	3			2	1		17		17	27	
Gull-billed Tern															24					1	1	1 /		17	1	
Caspian Tern														1							1			1	2	
Total	87	424	569	71	75	17	8	122	25	25	43	220	2	36	230	12	70	112	76	123	2365	468	196	3029	4712	169
Total	07	424	309	/1	13	17	0	122	23	23	43	220	-	30	230	14	70	112	70	123	2303	400	190	3029	4/12	109
	Deep		Ramsar																							
	Bay Area	%	Site	%	SI	%																				
Cormorants	3	0%	1	0%	0	0%																				
Ardeids etc	1644	35%	718	24%	155	92%																				
Ducks, grebes, pelicans	137	3%	53	2%	6	4%																				
Rails, coot etc	91	2%	43	1%	7	4%																				
Shorebirds	2728	58%	2186	72%	1	1%																				
Gulls and terns	109	2%	28	1%	0	0%																				
TOTAL	4712	100%	3029	100%	169	100%																				
Date of count: 12 May 2013																										
n/c = site not counted	High tide	measured	at TBT: 2	5m		ı																				
me site not counted	Tilgir tide																									
Wetland-dependent species																										
SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	SPR	NSW	LHW	WEP	Sha Kiu	NW / LFS	ткс	LC	TSW	MPST	ST	SPS	MPNR	Ramsar	Ramsar	Ramsar	DEEP BAY AREA	Starling
Osprey			2					(161)					Kiu	LFS							5	ponus	intertidal areas	Site 5	7	Inlet
Black Kite								3	1	1						1		1		1	5	6		11	13	
White-bellied Sea Eagle								3	1	1						1		1		1	3	0		0	0	
Eastern Marsh Harrier																								0	0	
Common Buzzard																								0	0	
Greater Spotted Eagle	1			 							 	 			-	\vdash					 			0	0	
Imperial Eagle																								0	0	
	-			-							 	 			+	\vdash					-			0	0	
Peregrine Falcon	1	4	2	<u> </u>						_	 	 			1	\vdash		-	2		1	2		-	·	1
Pied Kingfisher	2	4	3	<u> </u>						2	1	 			1	\vdash		3	2	1	4	3		7	21	1
Common Kingfisher	1	5		 		1				-	1	-			1	$\vdash\vdash$		1	1	1	2	2	-	4	13	1
White-throated Kingfisher	-	1		 		1				-	-	-			1	$\vdash\vdash$				-	 	-	-	0	1	
Black-capped Kingfisher				 		1									1	\vdash					 			0	0	
Red-billed Starling	-	<u> </u>	5	-		1		_			 	 			<u> </u>						1.5	10		0	5	
Collared Crow	2	5	1					3			<u> </u>	<u> </u>			<u> </u>	3	7	1	5		16	12		28	43	

Summary of Waterbird Counts, June 2013

							ν.		ıaı y	01 1	vaic.	DII		unts,		C 21	013					1	1			
SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	SPR	NSW	LHW	WEP	Sha Kiu	NW / LFS	TKC	LC	TSW	MPST	ST	SPS	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	16	6						12	1	6	5						5	5	5	16	2	23		25	79	1
Great Crested Grebe																								0	0	
Great Cormorant	1																							0	1	
Dalmatian Pelican																								0	0	
Grey Heron										3				1							9			9	13	
Purple Heron																								0	0	
Great Egret	10	18	68		36	8		96	84	6	6	9		4	3	4	4	16	10	10	26	125	127	278	418	90
Intermediate Egret	1								2						1	1	1		1		12	3	2	17	19	
Little Egret	1	16	99		25	12	1	61	25	4	5	23	3	10	6	5	5	14	9	8	10	89	61	160	342	8
Swinhoe's Egret																								0	0	
Pacific Reef Egret																								0	0	
Cattle Egret	2		2			1		3				1					1	2			58	6	1	65	70	8
Chinese Pond Heron	8	25	27		1			5	3	8	7				1	3	3	20	23	13	4	41	1	46	151	
Striated Heron																			2					0	2	
B-c Night Heron	1	45	17	1		1	2		3	1				2				4	9	5	1	6	4	11	91	10
Yellow Bittern									1			1											1	1	2	
Cinnamon Bittern	1																							0	1	
Great Bittern																								0	0	
Black Stork																								0	0	1
Black-headed Ibis																								0	0	1
Eurasian Spoonbill																								0	0	
Black-faced Spoonbill																					3			3	3	
Common Shelduck																								0	0	\vdash
Eurasian Wigeon																								0	0	\vdash
Falcated Duck																								0	0	
Gadwall																								0	0	\vdash
Baikal Teal																			1					0	0	
Common Teal																								0	0	\vdash
Mallard																								0	0	\vdash
Spot-billed Duck																								0	0	\vdash
Chinese Spotbill																								0	0	+
Burmese Spotbill																								0	0	+
Northern Pintail																								0	0	+
Garganey																								0	0	+
Northern Shoveler		 		+		 	 		 	 	 	-												0	0	
Common Pochard																								0	0	
Baer's Pochard		 		+		1						 												0	0	
Tufted Duck		 		+	-	1						 			1		-	1			1			1	2	
Greater Scaup		 		+		1						 			1						1			0	0	
Red-breasted Merganser		1		+	-	1	 		 	 	 	1	-					1			-			0	0	
Duck sp.		1		+			1		1	1	1	1	1					-						0	0	
Slaty-breasted Rail		1		+	-	1	 		 	 	 	1	-					1			-			0	0	+
		-		+	-		-		-	-	-	-	-								-			0	0	
Water Rail	10	20		 	-	<u> </u>					4	1		2			-	0	_	1	-	17		17		-
White-breasted Waterhen	10	29		+	-	 	-		-	-	4	1	1	2			5	8	6	1	-	17			66	2
Watercock	2	1	24	1	<u> </u>	<u> </u>	1	_	1	1	1	1	1					-			-	2		0	0	
Common Moorhen	2	-	24	1		1	1	5	1	1	1	1	1	1		-		1			1	2		2	31	
Eurasian Coot																								0	0	

Pheasant-tailed Jacana	Î	I	1	I	1 1	ı	ĺ	ĺ	ı	ĺ	ı	1	1 1	1	1	1	1	1			0	0	
Greater Painted Snipe																					0	0	
Black-winged Stilt													1			1			7	1	8	8	$\overline{}$
Pied Avocet																-			,	1	0	0	
Oriental Pratincole																					0	0	
Northern Lapwing																					0	0	
Grey-headed Lapwing																					0	0	
Pacific Golden Plover																					0	0	
Grey Plover																					0	0	
Common Ringed Plover																					0	0	
Little Ringed Plover	4														1	9				10	10	14	
Kentish Plover															1					10	0	0	
Lesser Sand Plover																					0	0	
Greater Sand Plover																			1		1	1	
Black-tailed Godwit																					0	0	
Bar-tailed Godwit									+	-						+			1		1	1	
Whimbrel																			21		21	21	
Eurasian Curlew		1	1	-	+ +		\dashv		-				1					-+	12		12	12	
Far Eastern Curlew		1	1	-	+ +		\dashv		-				1					-+	12		0	0	
Spotted Redshank									+	-						+					0	0	
Common Redshank									-	-						-			16		16	16	
Marsh Sandpiper							-	-	-										10		0	0	
Common Greenshank							-	-	-												0	0	
Nordmann's Greenshank							-	-	-										1		1	1	
Green Sandpiper							-	-	-										1		0	0	
Wood Sandpiper							-	-	-												0	0	
Terek Sandpiper							-	-	-												0	0	
Common Sandpiper									+	-						+					0	0	
Grey-tailed Tattler							-	-	-												0	0	
Ruddy Turnstone																					0	0	
Red-necked Phalarope									+	-						+					0	0	
Pintail Snipe							-	-	-												0	0	
Swinhoe's Snipe							-	-	-												0	0	
Pintail/Swinhoe's Snipe																					0	0	
Common Snipe																					0	0	
Long-billed Dowitcher							-	-	-												0	0	
Asian Dowitcher							-	-	-												0	0	
Red Knot							-	-	-												0	0	
Great Knot							-	-	-										1		1	1	
Sanderling		1	1	-	+ +		\dashv		-				1					-+	1		0	0	
Red-necked Stint		1	1	-	+ +		\dashv		-				1					-+			0	0	
Little Stint									-	-			+								0	0	
Temminck's Stint			1	 	+ +				-	$-\dagger$		+	+			-		\dashv			0	0	
Long-toed Stint				 	+ +		-+						+				+	+			0	0	
Pectoral Sandpiper			1	 	+ +		-+		-	-+		+	+	-	-	+		\dashv			0	0	-
Sharp-tailed Sandpiper			-	 	 			- 				+	+					-+			0	0	
Dunlin			-	 	 			- 				+	+					-+			0	0	
Curlew Sandpiper			-	 	 			- 				+	+					-+			0	0	
Spoon-billed Sandpiper			-	 	 			- 				+	+					-+			0	0	
Broad-billed Sandpiper		1	-	 	1								1				-				0	0	
Ruff		1		1	+ +		+		-				+ +					\dashv			0	0	
Kuii			<u> </u>	1																	U	U	

Small wader spp.	1	ĺ	ĺ	I	Ī		1	1	1	Ì	Ì	Ì	ĺ	1	1	1	ĺ		1	ĺ			1	0	0	1 1
Wader sp.																								0	0	
Black-tailed Gull																								0	0	
Heuglin's Gull																								0	0	
Yellow-legged Gull																								0	0	
Slaty-backed Gull																								0	0	
Pallas's Gull																								0	0	
Large Gull spp.																								0	0	
Brown-headed Gull																								0	0	
Black-headed Gull			1																					0	1	
Saunders's Gull																								0	0	
Whiskered Tern																								0	0	
White-winged Tern																								0	0	
Gull-billed Tern																								0	0	
Caspian Tern																								0	0	
Total	53	143	238	0	62	22	3	182	119	28	27	35	3	19	12	13	25	79	65	53	186	323	197	706	1367	119
	Deep		Ramsar																							
	Bay Area	%	Site	%	SI	%																				
Cormorants	1	0%	0	0%	0	0%																				
Ardeids etc	1112	81%	590	84%	116	97%																				
Ducks, grebes, pelicans	81	6%	26	4%	1	1%																				
Rails, coot etc	97	7%	19	3%	2	2%																				
Shorebirds	75	5%	71	10%	0	0%																				
Gulls and terns	1	0%	0	0%	0	0%																				
TOTAL	1367	100%	706	100%	119	100%																				
D + 6 + 0 I 2012																	<u> </u>									
Date of count: 9 Jun 2013	High tide		1 -4 TDT: 2	C												1										
n/c = site not counted	High tide	measured	1 at 1 B 1 : 2	.om	l	ı																				
W-411 dd4i																1										
Wetland-dependent species								DDE					CI	NIXXI /		1						D.	D.	D	DEED DAY	Gt II
SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	SPR	NSW	LHW	WEP	Sha Kiu	NW / LFS	TKC	LC	TSW	MPST	ST	SPS	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Osprey																								0	0	
Black Kite	1							7		1							1		2			7	3	10	12	1
White-bellied Sea Eagle																								0	0	
Eastern Marsh Harrier																								0	0	
Common Buzzard																								0	0	
Greater Spotted Eagle																								0	0	
Imperial Eagle																								0	0	
Peregrine Falcon																								0	0	
Pied Kingfisher	1	2	1							1						1		3	2		1	4		5	12	1
Common Kingfisher	2	9								2		1					<u> </u>	4		2		3		3	20	
White-throated Kingfisher											1					<u> </u>						1		1	1	
Black-capped Kingfisher																<u> </u>								0	0	
Red-billed Starling																<u> </u>			1					0	1	
Collared Crow		5														14	<u> </u>	4	3		5	18		23	31	
Crested Serpent Eagle									ļ						ļ	<u> </u>								0	0	1
Bonelli's Eagle										2														0	2	

Summary of Waterbird Counts, July 2013

			1						•	01 1	vaic.	I DII (umis,		, 4	,13									
SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	SPR	NSW	LHW	WEP	Sha Kiu	NW / LFS	TKC	LC	TSW	MPST	ST	SPS	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	14	15	2					10		1	1				14		10	9	20	18	6	37		43	120	
Great Crested Grebe																								0	0	
Great Cormorant																								0	0	
Dalmatian Pelican																								0	0	
Grey Heron								1													1	1		2	2	
Purple Heron										1														0	1	
Great Egret	18	56	100		38	15	93	17		26	8	1		17	24	20	15	31	41	69	100	101	146	347	689	86
Intermediate Egret			4																		2			2	6	9
Little Egret	4	99	150		17	4	30	9		6	5	2	14	18	32	10	13	9	16	54	70	68	51	189	562	2
Swinhoe's Egret																								0	0	
Pacific Reef Egret																								0	0	
Cattle Egret	4	2	20				1			1										1	5		1	6	34	7
Chinese Pond Heron	29	48	34					5		6	16	1	2	4	34	13	4	15	26	16	5	74		79	258	3
Striated Heron			_																		2			2	2	
B-c Night Heron	1	23	69		3	2	7	1		1	1				5	16	5	5	5	2		31	12	43	146	8
Yellow Bittern										1										1				0	2	
Cinnamon Bittern																								0	0	1
Great Bittern																								0	0	
Black Stork																								0	0	<u> </u>
Black-headed Ibis																								0	0	<u> </u>
Eurasian Spoonbill		1																						0	0	†
Black-faced Spoonbill																								0	0	+
Common Shelduck																								0	0	\vdash
Eurasian Wigeon																								0	0	\vdash
Falcated Duck																			1					0	0	†
Gadwall																								0	0	\vdash
Baikal Teal																								0	0	+
Common Teal																								0	0	\vdash
Mallard																								0	0	\vdash
Spot-billed Duck																								0	0	\vdash
Chinese Spotbill																								0	0	+
Burmese Spotbill																								0	0	+
Northern Pintail																								0	0	+
Garganey		1		+	 	1	1		1			 	<u> </u>		1	 		 	1		 	 		0	0	+
Northern Shoveler				+	<u> </u>	 	-					 			-						 	 		0	0	+
Common Pochard		 		+	 		 									<u> </u>					 	 		0	0	+
Baer's Pochard				+	1	1	 				l										 	 		0	0	+
Tufted Duck		1		+	 	1	 				-						-	1		-	 	 		0	0	+
Greater Scaup				+	1	1	 				l										 	 		0	0	+
Red-breasted Merganser	1	1		+	1	1	-		1			 	-		-	 		1	1		1	1		0	0	+
Duck sp.				+	-	 	-		1			 			-	1		-			-	-		0	0	+
Slaty-breasted Rail	1	1		+	1	1	-		1			 	-		-	 		1	1		1	1		-	0	+
		1		+	-		-		-			-			-	<u> </u>					-	-		0		+
Water Rail	0	1.4	4	+	-	<u> </u>	 	4		1	_	_			10	<u> </u>	1	1	-	0	-	11		0	0	+
White-breasted Waterhen	8	14	4	+	1	 	 	4	1	1	3	2			10	<u> </u>	1	1	5	8	3	11		14	64	5
Watercock		 	10	1	1	<u> </u>	1		1			1			1	<u> </u>		-		_	1	1		0	0	
Common Moorhen		1	13	1	1	1	1		1			1			-			1		3	-	-		0	16	+
Eurasian Coot																								0	0	

Pheasant-tailed Jacana	1	I	1	1	1 1	ĺ	I	I	1	ı	1	ĺ		Ī	1		l	1 1			0	0	
Greater Painted Snipe																					0	0	
Black-winged Stilt											4		6			11	8	14	4	17	21	47	
Pied Avocet																			•		0	0	
Oriental Pratincole																					0	0	
Northern Lapwing																					0	0	
Grey-headed Lapwing																					0	0	
Pacific Golden Plover																					0	0	
Grey Plover																					0	0	
Common Ringed Plover																					0	0	
Little Ringed Plover	1						4									18	6	16		22	22	45	
Kentish Plover	1						7									10	U	10		22	0	0	
Lesser Sand Plover																					0	0	
Greater Sand Plover																			14		14	14	
Black-tailed Godwit																			1		1	1	
Bar-tailed Godwit																					0	0	
Whimbrel			1	1				- 											2		2	2	
Eurasian Curlew		1	1	 	+ +			+											36		36	36	
Far Eastern Curlew		1	1	 	+ +			+											50		0	0	
Spotted Redshank																					0	0	
Common Redshank		50	+	+							31		60			2			191	62	253	334	
Marsh Sandpiper		30									31		00						171	02	0	0	
Common Greenshank											73					5			66	5	71	144	
Nordmann's Greenshank					 						13					3			00		0	0	
Green Sandpiper					 						-		1							1	1	1	
Wood Sandpiper	1	2			 						-		1			27	2			27	27	32	
Terek Sandpiper	1				 						-					21				21	0	0	
Common Sandpiper	5	13					1							1	3	8	4	17		13	13	52	
Grey-tailed Tattler		13					1							-	3	- 0		17		13	0	0	
Ruddy Turnstone																					0	0	
Red-necked Phalarope																					0	0	
Pintail Snipe																					0	0	
Swinhoe's Snipe																					0	0	
Pintail/Swinhoe's Snipe																					0	0	
Common Snipe																					0	0	
Long-billed Dowitcher																					0	0	
Asian Dowitcher																					0	0	
Red Knot																					0	0	
Great Knot																					0	0	
Sanderling																					0	0	
Red-necked Stint		1	1	1	1			+							-						0	0	
Little Stint																					0	0	
Temminck's Stint		1	1	1	1			+							-						0	0	
Long-toed Stint			1	1				- 													0	0	
Pectoral Sandpiper		1	1	1	1			+							-						0	0	
Sharp-tailed Sandpiper			1	1				- 													0	0	
Dunlin			1	1				- 													0	0	
Curlew Sandpiper			1	<u> </u>	1 1																0	0	
Spoon-billed Sandpiper		1	1	 	+ +			+													0	0	
Broad-billed Sandpiper		1	1	 	+ +			+													0	0	
Ruff		1	1	+	+ +			\rightarrow	+						-+						0	0	
17.011			1	1																	U	U	l

Small wader spp.	1	1	ſ	I	I	l	l	l		I	I	l	l	I	1	l	1	I		I	I	I	I I	0	1 0	l I
Wader sp.																								0	0	
Black-tailed Gull																								0	0	
Heuglin's Gull																								0	0	
Yellow-legged Gull																								0	0	
Slaty-backed Gull																								0	0	
Pallas's Gull																								0	0	
Large Gull spp.																								0	0	
Brown-headed Gull																								0	0	
Black-headed Gull																								0	0	
Saunders's Gull																								0	0	
Whiskered Tern																								0	0	
Little Tern																2						2		2	2	
White-winged Tern																Ť								0	0	
Gull-billed Tern																								0	0	
Caspian Tern																								0	0	
Total	78	264	461	0	58	21	131	52	0	44	34	114	16	39	186	62.	51	141	133	219	508	472	210	1190	2612	120
1000	7.0	201	101				101		_		-		10		100	02		111	100	-17	200		210	1170	2012	120
	Deep	0/	Ramsar	0/	O.	0/																				
	Bay Area	%	Site	%	SI	%																				
Cormorants	0	0%	0	0%	0	0%																				
Ardeids etc	1702	65%	670	56%	115	96%																				
Ducks, grebes, pelicans	120	5%	43	4%	0	0%																				
Rails, coot etc	80	3%	14	1%	5	4%																				
Shorebirds	708	27%	461	39%	0	0%																				
Gulls and terns	2	0%	2	0%	0	0%																				
TOTAL	2612	100%	1190	100%	120	100%																				
Date of count: 21 Jul 2013																										
n/c = site not counted	High tide 1	neasure	d at TBT: 2	.9m																						
Wetland-dependent species																										
SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF	SPR	NSW	LHW	WEP	Sha	NW/	TKC	LC	TSW	MPST	ST	SPS	MPNR	Ramsar	Ramsar	Ramsar	DEEP BAY	Starling
0								(TBT)					Kiu	LFS								ponds	intertidal areas	Site ()	AREA	Inlet
Osprey Black Kite		1						6	2	1					1	1		1	2		2	11		13	0 17	
White-bellied Sea Eagle		1						0		1					1	1		1				11		0	0	
Eastern Marsh Harrier																								0	0	
Common Buzzard																								0	0	
Greater Spotted Eagle																								0	0	
Imperial Eagle																								0	0	
Peregrine Falcon																								0	0	
Pied Kingfisher	2	1	1							2								1		1		1		1	8	
Common Kingfisher	2	13	2					1			1	1		2	1		1	1		1		4		4	26	
White-throated Kingfisher		4	5	1			1	2		1	1	2		5	1		1	2		1		4		4	20	
Black-capped Kingfisher		4)	1			1			1)	1		1					4		0	0	
Red-billed Starling			1	1			1					1			1		1	6				6		6	7	
Collared Crow	1		2	1			2	8			1	1			1	4	1	3			13	6 16	2	31	36	
	1			1				0		1	1	1			1	4	-	3			13	10			1	
Bonelli's Eagle	1		L		<u> </u>	1		l		1	<u> </u>					<u> </u>				l				0	1	

Summary of Waterbird Counts, August 2013

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD		DDE				WEP		NW / LFS				MPST	ST	SPS	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	8	15	1					(111)		3			Kiu	8	12		9	14	29	31	6	29	intertidar areas	35	136	1
Great Crested Grebe	0	13	1											0	12			17		31	U	2)		0	0	-
Great Cormorant	2										2													0	4	
Dalmatian Pelican																								0	0	
Grey Heron	3		1							7										1	5			5	17	3
Purple Heron	3									1														0	1	
Great Egret	83	33	103	63	6			78	29	66	4	2		7	56	1	5	13	8	13	63	137	35	235	633	80
Intermediate Egret	1	33	1	0.5	-			23	2)	00				,	30	1		13	0	13	3	23	33	26	28	00
Little Egret	8	46	120	45	4			156	10	121	11	2		7	102	21	20	17	17	28	100	256	14	370	835	8
Swinhoe's Egret	0	70	120	43	_			150	10	121	11			,	102	21	20	17	17	20	100	230	17	0	0	0
Pacific Reef Egret																								0	0	
Cattle Egret	1				1			12								23		1	1	3	11	13		24	52	
Chinese Pond Heron	44	46	28	3	1			4	5	16	10	2		10		14	11	22	37	35	5	77	6	88	326	8
Striated Heron	44	40	20	3	1		 	4	٦	10	10			10	33	14	11	22	31	33	3	//	Ü	0	320	1
B-c Night Heron		8	35	2	3	1	-		1	12					6	1			1	7	10	5	4	19	86	1
Yellow Bittern	1	8	1	2	3	1	1		1	12		1			1	1			1	/	10	1	4	19	4	1
Cinnamon Bittern	1		1									1			1							1		-	0	1
					-																			0	0	
Great Bittern					1																			0		
Black Stork																								0	0	
Black-headed Ibis																								0	0	
Eurasian Spoonbill																								0	0	
Black-faced Spoonbill					1																3			3	3	
Common Shelduck					1																			0	0	
Eurasian Wigeon																								0	0	
Falcated Duck																								0	0	
Gadwall																								0	0	
Baikal Teal																								0	0	
Common Teal																								0	0	
Mallard																								0	0	
Spot-billed Duck																								0	0	
Chinese Spotbill																								0	0	
Burmese Spotbill																								0	0	
Northern Pintail																								0	0	
Garganey																								0	0	
Northern Shoveler																								0	0	
Common Pochard																								0	0	
Baer's Pochard																								0	0	
Tufted Duck																		1				1		1	1	
Greater Scaup																								0	0	
Red-breasted Merganser																								0	0	
Duck sp.																								0	0	
Slaty-breasted Rail																								0	0	
Water Rail																								0	0	
White-breasted Waterhen	10	14	2					2		1	2	5		2	6				2	5	6	7		13	57	
Watercock																								0	0	
Common Moorhen			18											1							4			4	23	
Eurasian Coot																								0	0	

Pheasant-tailed Jacana	Ī		I	I		I	1 1		1 1		l	Ī	I	I	1 1	1		I 1		ĺ		İ	0	0	
Greater Painted Snipe																							0	0	
Black-winged Stilt	9																7			5	7		12	21	
Pied Avocet																	,			Ü			0	0	
Oriental Pratincole																							0	0	
Northern Lapwing																							0	0	
Grey-headed Lapwing																				1			1	1	
Pacific Golden Plover			36																	3			3	39	
Grey Plover			50																				0	0	
Common Ringed Plover																							0	0	
Little Ringed Plover	2												10			4					4		4	16	
Kentish Plover													10			_	3				3		3	3	
Lesser Sand Plover																	3				3		0	0	
Greater Sand Plover																	5			62	5		67	67	
Black-tailed Godwit						1											3			97			97	97	
Bar-tailed Godwit																				21			0	0	
Whimbrel			5																	19			19	24	
Eurasian Curlew			,																	33			33	33	
Far Eastern Curlew																				33			0	0	
Spotted Redshank																							0	0	
Common Redshank			29								89			15			26			264	41		305	423	
Marsh Sandpiper	2		29								09			13			20			204	41		0	2	
Common Greenshank	1		270								45									459			459	775	
Nordmann's Greenshank	1		270								43									439			0	0	
Green Sandpiper		2												2			3				5		5	7	
Wood Sandpiper	33	21	108							3						2	4			3	9		12	174	
Terek Sandpiper	33	21	108							3							4			6	9		6	6	
Common Sandpiper	2	8	15					2	2	3	4			3		8	6	12	17	1	20	2	23	83	
Grey-tailed Tattler		0	13							3	4			3		0	0	12	1 /	1	20	2	0	0	
Ruddy Turnstone																							0	0	
Red-necked Phalarope																							0	0	
Pintail Snipe																							0	0	
Swinhoe's Snipe																							0	0	
Pintail/Swinhoe's Snipe		2																					0	2	
Common Snipe																		1					0	1	
Long-billed Dowitcher																		1					0	0	
Asian Dowitcher																				7			7	7	
Red Knot																				/			0	0	
Great Knot	+		 	-											H								0	0	
Sanderling																							0	0	
Red-necked Stint	+		 	-											H								0	0	
Little Stint																							0	0	
Temminck's Stint																							0	0	
Long-toed Stint			-			1							1		\vdash								0	0	
Pectoral Sandpiper	1		 			1					l												0	0	
Sharp-tailed Sandpiper	+		28	-																			0	28	
Dunlin	+		28	-																			0	0	
			-	-		-																			
Curlew Sandpiper			-	-		-																	0	0	
Spoon-billed Sandpiper			-	-		-																	0	0	
Broad-billed Sandpiper	1		 	ļ					-						1								0	0	
Ruff			l	L	1																		0	0	

Small wader spp.	1		1	ı	I	1	ĺ	ĺ		1	ĺ	ĺ	Ì	ĺ	ĺ	l	ĺ	1	Ì	l	I	I	I I	0	1 0	1 1
Wader sp.																								0	0	
Black-tailed Gull																								0	0	
Heuglin's Gull																								0	0	
Yellow-legged Gull																								0	0	
Slaty-backed Gull																								0	0	
Pallas's Gull																								0	0	
Large Gull spp.																								0	0	
Brown-headed Gull																								0	0	
Black-headed Gull																								0	0	
Saunders's Gull																								0	0	
Whiskered Tern																								0	0	
Common Tern															5				1					0	6	
White-winged Tern																			1					0	0	
Gull-billed Tern																								0	0	
Caspian Tern																								0	0	
Total	210	195	801	113	14	0	0	277	47	227	35	150	0	45	241	60	59	122	109	141	1176	643	61	1880	4022	103
Total	210	173	001	113	17	•	0	2//	7/	221	33	150	U	73	271	00	37	122	107	171	1170	043	01	1000	7022	103
	Deep		Ramsar																							
	Bay Area	%	Site	%	SI	%																				
Cormorants	4	0%	0	0%	0	0%																				
Ardeids etc	1986	49%	771	41%	102	99%																				
Ducks, grebes, pelicans	137	3%	36	2%	1	1%																				
Rails, coot etc	80	2%	17	1%	0	0%																				
Shorebirds	1809	45%	1056	56%	0	0%																				
Gulls and terns	6	0%	0	0%	0	0%																				
TOTAL	4022	100%	1880	100%	103	100%																				
Date of count: 18 Aug 2013																										
n/c = site not counted	High tide 1	neasure	d at TBT: 2	.7m																						
Wetland-dependent species																										
•	an.	ann	DD.4	nnn	DD.G	nnn		DBF	ann	NICITY		TT/ED	Sha	NW/	mvra		TO CITY	> CDCC	COMP	ana	3 6 D 3 7 D	Ramsar	Ramsar	Ramsar	DEEP BAY	Starling
SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DRE	(TBT)	SPR	NSW	LHW	WEP	Kiu	LFS	TKC	LC	TSW	MPST	ST	SPS	MPNR	ponds	intertidal areas	Site	AREA	Inlet
Osprey				1						1														0	2	
Black Kite		2						7	3	7	1				2		2	2	3	1	16	10	1	27	46	
White-bellied Sea Eagle																								0	0	
Eastern Marsh Harrier																								0	0	
Common Buzzard																								0	0	
Greater Spotted Eagle																								0	0	
Imperial Eagle																								0	0	
Peregrine Falcon																								0	0	
Pied Kingfisher	3	1	4															2	2		3	2		5	15	1
Common Kingfisher	5	24	4					1		5		1		1	4	3		3	4	3	2	8		10	60	2
White-throated Kingfisher	1	4	4					1	2	3		2		2		1	1	1		1		3	2	5	23	1
Black-capped Kingfisher			2																					0	2	1
Red-billed Starling			12																	2				0	14	
Collared Crow		2	2				2	2		1		1			1	1	3	2	7		22	9	2	33	46	
Bonelli's Eagle					l			I		1		1		I					l	l	1	1		0	1	

Summary of Waterbird Counts, September 2013

						,	Juli			· · at	CI DI	uc		s, ser		IDC	1 20.	13					1			
SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	SPR	NSW	LHW	WEP	Sha Kiu	NW / LFS	TKC	LC	TSW	MPST	ST	SPS	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Starling Inlet
Little Grebe	7	16	1				7	5			13				18		6	15	16	17	8	41	7	56	122	1
Great Crested Grebe																								0	0	
Great Cormorant																								0	0	
Dalmatian Pelican																								0	0	
Grey Heron		5	15	2	13			5	5	41	1	7		1	10	2				1	10	14	24	48	118	3
Purple Heron										1														0	1	
Great Egret	37	18	89	30	25	7		8	8	88	3	1	8	16	13	2	71	3	65	94	43	90	70	203	592	50
Intermediate Egret	24	2																			3			3	5	
Little Egret	1	34	47	13	17	8		7	6	84	6	1	11	84	67	4	183	10	180	26	17	256	48	321	805	12
Swinhoe's Egret																								0	0	
Pacific Reef Egret																								0	0	
Cattle Egret	3	2	1									2				18	15		10		3	33		36	51	
Chinese Pond Heron	39	60	19				1	3	1	22	15			8	21	6	6	25	27	27	23	64	4	91	264	2
Striated Heron			1											1		1						1		1	3	
B-c Night Heron	9	8	7				2			2	1			3					1			1	2	3	24	
Yellow Bittern		1																1			1	1		2	3	
Cinnamon Bittern																					1			1	1	
Great Bittern																								0	0	
Black Stork																								0	0	
Black-headed Ibis																								0	0	
Eurasian Spoonbill																								0	0	
Black-faced Spoonbill				3																			3	3	3	
Common Shelduck																								0	0	
Eurasian Wigeon																					1			1	1	
Falcated Duck																								0	0	
Gadwall																					2			2	2	
Baikal Teal																								0	0	
Common Teal																								0	0	
Mallard																								0	0	
Spot-billed Duck																								0	0	
Chinese Spotbill																								0	0	
Burmese Spotbill																								0	0	
Northern Pintail																								0	0	
Garganey																								0	0	
Northern Shoveler				1	1		 																	0	0	
Common Pochard				1																				0	0	
Baer's Pochard		<u> </u>		<u> </u>																	<u> </u>	<u> </u>		0	0	
Tufted Duck				1	1		 											1		1		1		1	2	
Greater Scaup				1														1		-		1		0	0	
Red-breasted Merganser																								0	0	
Duck sp.		 		+	1		1	1	-		 				1	1			<u> </u>		 	 		0	0	
Slaty-breasted Rail		 		 	1		 	1			 								-		 	 		0	0	
Water Rail		 		+	1	-	 	 			 				-						 	 		0	0	
White-breasted Waterhen	5	7	3	+			1	 	1	2	3			1	5		1		3	3	3	6	2	11	33	
Watercock	3		3	+	-	1	1	1	1		3			1	J		1		3	3	3	0		0	0	
Common Moorhen		2	17	2	-		1	1			 				1	1			-	1	1	 	2	3	23	2
Eurasian Coot			1/				-	1			 			-	!	1				1	1	-		0	0	

Pheasant-tailed Jacana	İ	I		I		1 1	1	ĺ	1	1		. 1			1 1	1	1					i i		I	0	0	
Greater Painted Snipe																									0	0	
Black-winged Stilt	35	6	141					7		13					6		20	13	8	5	23	18			41	242	
Pied Avocet											\vdash				Ť					_					0	0	
Oriental Pratincole																					2				2	2	
Northern Lapwing																									0	0	
Grey-headed Lapwing			1							2											1				1	4	
Pacific Golden Plover			180																						0	180	
Grey Plover			1	10																			10	1	10	11	
Common Ringed Plover			_																					_	0	0	
Little Ringed Plover	72	1												22	3			32				35			35	58	
Kentish Plover		-	50								$\neg \neg$				-			- 22				- 55			0	50	
Lesser Sand Plover																								_	0	0	
Greater Sand Plover				59										2			1						59	4	59	62	
Black-tailed Godwit			200*	246							$\neg \neg$												246		46	246	
Bar-tailed Godwit				18							$\neg \neg$												18		18	18	
Whimbrel			1	69							$\neg \neg$			2									69		59	72	7
Eurasian Curlew			-	38																			38		38	38	
Far Eastern Curlew											\rightarrow	$\overline{}$											- 23	_	0	0	
Spotted Redshank			30							2															0	32	
Common Redshank			51	244							$\neg \neg$			3	60								244		44	358	
Marsh Sandpiper			2	17											00								17		17	19	
Common Greenshank			29	522						19				7			4	1				5	522		27	582	
Nordmann's Greenshank			- 27	322						17				,				-					322		0	0	
Green Sandpiper		4	20	3				2		2					2		2					4	3		7	35	
Wood Sandpiper	39	10	45							6								2	1	5		2.			2	69	
Terek Sandpiper	37	10	15	68															-				68		58	68	
Common Sandpiper	3	16	22	1						15	6	1	1	7	7	2	1	7	15	11		18	1		19	112	2
Grey-tailed Tattler		10		9						10	Ť		-	2				,	10			10	9	_	9	11	
Ruddy Turnstone				-							$\neg \neg$			2											0	2	
Red-necked Phalarope																									0	0	
Pintail Snipe											$\neg \neg$							1				1			1	1	
Swinhoe's Snipe											$\neg \neg$											_			0	0	
Pintail/Swinhoe's Snipe	1										$\neg \neg$														0	0	
Common Snipe	-		1								$\neg \neg$							1				1			1	2	
Snipe sp.											$\neg \neg$								1			_			0	1	
Long-billed Dowitcher											$\neg \neg$								-						0	0	
Asian Dowitcher											$\neg \neg$														0	0	
Red Knot				2							$\neg \neg$	$\neg \dagger$											2		2	2	
Great Knot		1		7							,	=											7		7	7	
Sanderling		1		<u> </u>							,	=											·		0	0	
Red-necked Stint			50	1																			1		1	51	
Little Stint			-																						0	0	
Temminck's Stint		1		1							,	=													0	0	
Long-toed Stint				4														1		2		1	4		5	7	
Pectoral Sandpiper		1		1							,	=													0	0	
Sharp-tailed Sandpiper		1		1							,	=													0	0	
Dunlin		1				1																			0	0	
Curlew Sandpiper		1		1							$\neg \neg$	\Box											1		1	1	
Spoon-billed Sandpiper	1	1			1						-														0	0	
		1		1						Į.															U	U	

Ruff			İ	Ī	_	1	l		1		l	l	I		I	1	I				İ			0	0	
Small wader spp.																								0	0	
Wader sp.																								0	0	
Black-tailed Gull																								0	0	
Heuglin's Gull																								0	0	
Yellow-legged Gull																								0	0	
Slaty-backed Gull																								0	0	
Pallas's Gull																								0	0	
Large Gull spp.																								0	0	
Brown-headed Gull																								0	0	
Black-headed Gull																								0	0	
Saunders's Gull																								0	0	
Whiskered Tern															3		4					4		4	7	
White-winged Tern																								0	0	
Gull-billed Tern																								0	0	
Caspian Tern																								0	0	
Total	275	192	824	1400	55	15	11	37	21	299	48	12	20	161	215	35	314	113	327	193	142	597	1512	2251	4434	79
	Deep	%	Ramsar	%	SI	%																				
Commonto	Bay Area	00/	Site	00/												1										
Cormorants	1070	0%	0 712	0%	0	0%										1										
Ardeids etc	1870	42%	712	32%	67	85%										1										
Ducks, grebes, pelicans	127	3%	60	3%	1	1%										1										
Rails, coot etc Shorebirds	56 2374	1%	14 1461	1% 65%	9	3% 11%										1										
	7	54%														1										
Gulls and terns TOTAL	4434	0% 100%	4 2251	0% 100%	<u> </u>	0% 100%																				
IOIAL	4434	100%	2251	100%	79	100%																				
Date of count: 8 Sep 2013																										
n/c = site not counted	High tide 1	neasurea	l at TBT: 2	4m																						
are – site not counted	Tingii tide i	reasure	1 41 151.2																							
Wetland-dependent species																										
SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DDE	DBF	CDD	NICINI	LHW	WED	Sha	NW/	TIZO	1.0	TOWN	MPST	ST	SPS	MPNR	Ramsar	Ramsar	Ramsar	DEEP BAY	Starling
SPECIES	SKA	SKD	DDA	рър	DBC	рвр	DDE	(TBT)	SFK	NOW	LHW	WEF	Kiu	LFS	IKC	LC	1511	MFSI	31	srs	MITNK	ponds	intertidal areas	Site	AREA	Inlet
Osprey																					1			1	1	
Black Kite	4	1						1		3	2					1	11		3	2	4	14		18	32	1
White-bellied Sea Eagle																								0	0	
Eastern Marsh Harrier																								0	0	
Common Buzzard																								0	0	
Greater Spotted Eagle																								0	0	
Imperial Eagle																								0	0	
Peregrine Falcon																								0	0	
Pied Kingfisher	3	8													1			1	4	1	1	2		3	19	
Common Kingfisher	3	20		1				1		2	1	1		1	6		2	2	4	3	2	5	1	8	49	1
White-throated Kingfisher	4	1						2				2		2				1				2		2	12	
Black-capped Kingfisher																					2			2	2	1
Red-billed Starling	1																							0	1	
Collared Crow	1						2					1			2	2	6	3	1	1	3	11	2	16	22	
Bonelli's Eagle																					1			1	1	