APPENDIX 10.14

OBSERVATIONS FROM THE RUNCORN GAP OF BIRD MOVEMENTS IN 2006 BETWEEN THE MIDDLE MERSEY ESTUARY (SPA) AND THE UPPER MERSEY ESTUARY (LOCAL WILDLIFE SITE)

Key to Abbreviations: Bird Species:-

GB = Great Black-backed Gull

LB = Lesser Black-backed Gull

HG = Herring Gull

CM = Common Gull

BH = Black-headed Gull

CA = Cormorant

CU = Curlew

SU = Shelduck

DN = Dunlin

MA = Mallard

OC = Oystercatcher

FF = Fieldfare

RE = Redwing

RK = Redshank

H = Heron

PW = Pied Wagtail

GW = Grey Wagtail

FU = Flying up the Estuary

FD = Flying down the Estuary

20m arl = 20 metres above the road level of the bridge 30m arl = 30 metres above the road level of the bridge etc

Individual gulls were not recorded during the dawn and dusk influxes. The numbers of gulls flying within these times are recorded on the histograms.

Survey on 25-09-2006

Weather: Dry, scattered cloud

Temp: 15℃

Wind speed: 1-3 mph SW

High water: 1.25 and 13.39 hours Low water: 8.03 and 20.10 hours Sunrise: 7.03 sunset 19.04

Time	Bird presence and movements	Other observations
6.30	Low nos. gulls FU over bridge	Ebbing tide, fairly low
6.45	Large nos. gulls FU over bridge, MAx7 feeding on N bank 100m downstream of bridge	CGX50 on downstream sandbank
6.55	CGx4 FU 10m above water under bridge	No change
7.00	Large nos. gulls FU over bridge, MAx7 feeding on N bank 100m downstream. PWx2 feeding on N bank between bridges	CGx50 on downstream sandbank, BHx2 feeding on upstream sandbank
Cont.		

	25-09-2006 continued	
Time	Bird presence and movements	Other observations
7.04	Large nos. gulls FU over bridge, no change but MAx4 swam downstream under bridge	No change
7.07	Large nos. gulls FU over bridge, no change	No change but Hx1 feeding on upstream sandbank
7.15	Large nos. gulls FU over bridge, PWx2 feeding between bridges.	Mixed flock of gulls (500+) on downstream sandbank + CUx12, SUx17, CGx50+, Hx1. Hx1 and BHx2 on upstream sandbank. Tide ebbing
7.30	No change but low nos. gulls FU over bridge	No change
7.33	No change but low nos. gulls FU over bridge	No change but BHx50+ on upstream sandbank flew down from Upper Estuary
7.37	No change	No change but 2 more H on upstream sandbank
7.45	No change	No change but gulls on upstream sandbank moved further up Estuary.
8.00	No change	No change, low tide
8.03	No change but PWx2 flew up Estuary.	No change, low tide
8.15	Very low nos. gulls FU over bridge. No movements of wildfowl, waders and other seabirds. Several BH and CM flying around N bank between bridges	Mixed flock of gulls (500+) on downstream sandbank + CUx12, SUx17, CGx50+, Hx1
8.30	Very low nos. gulls FU over bridge. Several BH and CM flying around exposed mud on N bank below bridges	No change
8.45	No change. Hx1 landed on N bank mudflat between bridges	No change
8.51	Hx1 FD to downstream sandbank for fishing	No change
9.00	No change	No change
9.15	No change	No change
9.30 9.45	No change No change. Pair GW landed on	No change No change
10.00	shore below railway bridge No change	No change
10.15	No change	No change
10.30	No change	No change
10.45	No change	No change
11.00	No change	No change
11.15	Very occasional gulls (singles) FU and FD over bridge	Gulls on upstream sandbank flown up Estuary. H still present. No change in birds on downstream sandbank
11.30	No change except MAx2 feeding upstream on sandbank, and Hx1 between the bridges moved downstream	No change
11.45	No change	No change
11.51	No change other than MAx2 FD , now Max18 downstream of bridge	No change
12.00	Very occasional gulls (singles) FU and FD over bridge	No change
12.02	All Herons FU	Tide rising fast
	Very occasional gulls (singles) FU	No change
12.04	and FD over bridge	140 Ghango
12.04 12.05	and FD over bridge No change	No change

Survey on	25-09-2006 continued	
Time	Bird presence and movements	Other observations
	Roosting MA feeding on rising tidal	Gulls on downstream sandbank moved to
12.08	waters	higher part of sandbank. Tide rising
12.09	No change	No change
	No bird movements between Upper	
12.15	and Lower Estuary. Pair GW still	No change
	present	
12.18	No change	No change, tide rising
12.19	Mallards flew down Estuary	No change
12.30	Very occasional gulls (singles) FU and FD over bridge (less than 20)	No bird movements
12.39	Very occasional gulls (singles) FU and FD over bridge	Environment Agency boat came up river, beneath bridges. Flock of Lapwings on downstream sandbank flew elsewhere in Middle Estuary
12.42	Very occasional gulls (singles) FU and FD over bridge	Environment Agency boat returned downstream
12.45	No bird movements	Tide rising very fast
12.48	No bird movements	Tide rising very fast
12.50	No bird movements except GWx2 flew up Estuary.	Tide rising very fast
13.00	No bird movements	Tide rising very fast
13.06	Large flock of Lapwing (1000+) and smaller waders (20+) landed 1 km downstream of bridge on sandbank	Tide rising very fast
13.30	Lapwing flock not evident but probably still on vegetated sandbank downstream. No bird movements between Upper and Middle Estuary	Tide rising very fast
13.45	No bird movements	Tide still rising
13.53	Large Lapwing flock visible on downstream sandbank	Tide still rising
13.56	Lapwing flown further downstream leaving only Hx3, CGx20+ and small nos. of gulls on downstream sandbank	Tide still rising
14.00	GWx2 calling near bridge. No bird movements up or down the Estuary	Tide till rising
14.15	No bird movements	Tide still rising slightly
14.28	No bird movements	High tide
14.29	No bird movements	Tide starting to ebb
14.30	GWx2 calling under bridge, no other bird movements	Tide starting to ebb
14.45	No bird movements	About 30 gulls on downstream sandbank
15.00	No bird movements	Tide ebbing quickly
15.15	No bird movements	Tide ebbing quickly
15.30	No bird movements	Tide ebbing quickly
15.45	No bird movements	Tide ebbing quickly
15.40	GWx2 calling under bridge, no other bird movements	Tide ebbing quickly
16.00	No bird movements except very occasional gulls (singles) FU and FD over bridge	Tide ebbing quickly
16.07	No bird movements except very occasional gulls (singles) FU and FD over bridge	Gulls, SU, L and CU and smaller waders on downstrean sandbank, must have come from further west in Middle Estuary.
16.15	Small nos. gulls FD over bridge. No other bird movements	No change
Cont.		

	25-09-2006 continued	
Time	Bird presence and movements	Other observations
16.20	Small nos. gulls FD over bridge. No other bird movements and nothing visible upstream.	Increased nos. of gulls + SU, L and CU and smaller waders on downstream sandbank, many gulls flying around sandbank waiting for exposure.
16.30	Low nos. gulls FD over bridge. No other bird movements and nothing visible upstream.	Increased nos. of gulls + SU, L, CU, Hx10 and smaller waders on downstream sandbank.
16.45	Small nos. gulls FD over bridge. GWx2 calling under bridge but no other bird movements and nothing visible upstream.	Large nos. of gulls + SU, L, CU, Hx10 and smaller waders on downstream sandbank.
16.47	No change but MSx10 FU over bridge	No change
17.00	Small nos. gulls FD over bridge. No other bird movements	Large nos. of gulls + SU, L, CU, Hx10 and smaller waders on downstream sandbank. Upstream sandbank still covered by tide.
17.02	No change but RKx2 FD and started feeding 40m downstream of bridge	No change
17.15	Small nos. gulls FD over bridge. No other bird movements. RKx2 still feeding downstream.	No change
17.30	Small nos. gulls FD over bridge. No other bird movements. RKx2 still feeding downstream.	No change except MAx16 flew from across river and landed downstream of railway bridge to feed.
17.45	Increasing nos. gulls FD over bridge. No other bird movements.	No change
18.00	Increasing nos. gulls FD over bridge. Hx1 FD but no other bird movements. MAx10 and RKx2 still feeding downstream.	No change
18.06	No change except CAx6 FU below bridge	No change
18.15	Large nos. gulls FD over bridge. MA, RK and H still feeding downstream. No other bird movements	No change
18.30	Larger nos. gulls FD over bridge. MA, and RK still feeding downstream but Hx1 FU . No other bird movements	No change
18.45	Large nos. gulls FD over bridge. No other bird movements past bridge. CA, SU, L and CU still on downstream sandbank.	Some gulls and other birds on downstream sandbank beginning to leave and flying downstream in Middle Estuary.
19.00	Large nos. gulls FD over bridge. RKx2 FU . MA still on N bank roosting. No other bird movements past bridge.	No change
19.15	Large nos. gulls FD over bridge. MA still on N bank roosting. No other bird movements past bridge.	No change, low tide
19.30	Large nos. gulls FD over bridge. No other bird movements past bridge.	No change, low tide. Becoming dark.

Survey on 02-10-2006 Weather: Heavy showers Temp: 13 °C Wind speed: 10 mph W High water: 7.04 and 19.44 hours Low water: 13.58 hours Sunrise: 7.15 sunset 18.47

Time	Bird presence and movements	Other observations
6.30	Too dark to see birds	Rain, high & rising tide
6.45	Too dark to see birds	Rain, high & rising tide
	Large nos. gulls FU over N part of	, 0
7.00	bridge	Upstream sandbanks covered
	Large nos. gulls FU over N part of	
7.15	bridge, some up to 300m inland	Tide still rising slightly
7.19	CA FU , 5m above water	Tide still rising slightly
7.30	Gulls FU	Heavy rain. Tide still rising slightly. 15-20mpg
7.45	Gulls FU	High tide (neap tide)
7.48	CA FU , 3m above water	Persistent rain
7.52	CA FU, 3m above water	Persistent rain
	·	Persistent rain, downstream sandbanks
8.00	Low nos. gulls FU	exposed, gullsx150, CGx8 CUx16 Hx1
	_	Lx1000+ SUx10+
8.10	Low nos. gulls FU	Tide ebbing
8.12	Low nos. gulls FU	Peregrine hunting along bridges
		Rain ceased. Upstream sandbank slightly
8.15	Occasional gulls FU	exposed, downstream sandbanks
		Lx1000+MAx25
8.30	Occasional gulls FU	Occ. light rain, tide ebbing, downstream
		sandbanks: Lx1000+Max25
8.32	CA FD, 3m above water	Downstream sandbanks: Lx1000+Max25
8.45	Occasional gulls FU	Cloudy, sunny intervals
9.00	Occasional gulls FU	Downstream sandbanks: Lx1000+Max25
9.15	Occasional gulls FU over bridge	Downstream sandbanks: Lx1000+Max25
9.30	Occasional gulls FU over bridge	Downstream sandbanks: Lx1000+Max25
9.45	Occasional gulls FU over bridge	Sunny, downstream sandbanks: Lx1000+MAx25
10.00	Occasional gulls FU & FD over bridge	Many more gulls arrived from west of Middle Estuary
	Occasional gulls FU & FD over	Sunny, downstream sandbanks CAx6 CGx70+
10.15	bridge	CUx9 gulls (mixed)x1000+SUx7 Hx3
	-	Downstream sandbanks CAx6 CGx70+ CUx9
10.26	CA FD	gulls (mixed)x1000+SUx7 Hx3
10.30	No bird movements	Sunny, scattered cloud, birds unchanged
	Occasional gulls FU & FD over	Most of gulls FD , 100+gulls and other birds
11.00	bridge	remained
11.15	_	Sunny, Most of gulls FD, 100+gulls and other
11.15	No bird movements	birds remained
		Sunny, Most of gulls FD, 100+gulls and other
11.30	No bird movements	birds remained, BHx200+ feeding on edge of
		downstream sandbank
11.45	Occasional gulls FU & FD over	BHxsingles feeding on upstream sandbank
	bridge	2. Monigroo rooding on apotrodin odnabank
11.52	Kestrel hunting over bridge	
12.00	No change	Sunny, few gulls on upstream sandbank, birds unchanged on downstream sandbank
	MA FD over bridge, landed 150m	Sunny, few gulls on upstream sandbank, birds
12.02	downstream to feed. Occasional	unchanged on downstream sandbank
	gulls FU & FD over bridge	anonanged on downstream sandbank
Cont.		

Survey on (02-10-2006 continued	
Time	Bird presence and movements	Other observations
12.14	CA FD 50m above water	Sunny, few gulls on upstream sandbank, birds unchanged on downstream sandbank
12.15	No bird movements	BHxseveral feeding on upstream bank 150m from bridge
12.20	GL feeding on bank between bridges	No change
12.30	No change	No change
12.45	No change	No change
12.46	No change	Pair of Kestrels hunting along bridges
12.47	GL FU	No change
13.00	Occasional gulls FU & FD over bridges	No change
13.15	Occasional gulls FU & FD over bridges	No change
13.17	GL feeding on bank between bridges	No change
13.30	Occasional gulls FU & FD over and under bridges	No change on downstream sandbank but no birds on upstream sandbank
13.45	No change	No change
14.00	No change	Occasional light rain
14.15	No change	No change
14.28	CA fishing under road bridge	No change
14.30	No change	No change. No birds flying over adjacent land
14.33	Max3 FU, feeding below bridge	No change
14.45	No change	No change
15.00	No change	No change
15.15	No change	Sunny, no change
15.30	No change	Sunny, no change
15.45	No change	No change
16.00	No change	No change
16.12	CAx2 FÜ	No change
16.15	No change	No change
16.30	No change	No change
16.45	No change	No change
17.00	No change	No change
17.15	Low nos. gulls FD	No change
17.30	Low nos. gulls FD	No change
17.45	Low nos. gulls FD	No change
18.00	Low nos. gulls FD	No change
18.15	Large nos. gulls FD	No change
18.17	Large nos. gulls FD	No change, tide turned
18.30	Large nos. gulls FD	No change, tide rising
18.45	Large nos. gulls FD	No change, tide rising
19.00	Large nos. gulls FD	No change, tide rising
19.15	Large nos. gulls FD	No change, tide rising, getting dark. Downstream sandbank 30% exposed, all birds FD , upstream sandbank covered.
19.30	Large nos. gulls FD	Almost dark

Survey on 21-11-2006 Weather: Dry, cloudy Temp: 5 °C Wind speed: 10-15 mph W High water: 11.16 hours Low water: 6.12 & 18.30 hours

7.00 Too drark to see birds 7.15 Too dark to see birds 7.30 Occasional gulls FU 7.30 Occasional gulls FU 7.45 GullsXlarge nos. FU No other birds near bridges 8.00 GullsXlarge nos. FU No other birds near bridges 8.15 GullsXlarge nos. FU No other birds near bridges 8.22 As above + Ca FD under bridge, 6m above water 8.30 GullsXlarge nos. FU No other birds near bridges 8.45 GullsXlarge nos. FU No other birds near bridges 8.45 GullsXlarge nos. FU No other birds near bridges 9.00 GullsXlarge nos. FU No other birds near bridges 9.15 No birds near bridges 9.23 No change 9.30 No birds passing the bridge 9.23 No wildfowl or waders 10.00 No wildfowl or waders 10.01 Gullsxingles FU and FD 10.45 A few gulls on the upstream sandbank completely covered, no birds sandbank 11.00 Gullsxocasional singles FU and FD 11.45 Gullsxocasional singles FU and FD 12.00 Gullsxocasional singles FU and FD 12.15 Gullsxocasional singles FU and FD 12.15 Gullsxocasional singles FU and FD 12.20 No wildfowl or waders 12.24 No wildfowl or waders 12.25 No wildfowl or waders 12.26 No wildfowl or waders 12.26 No wildfowl or waders 12.27 No wildfowl or waders 12.28 No wildfowl or waders 12.29 No wildfowl or waders 12.20 No wildfowl or waders 12.20 No wildfowl or waders 12.20 No wildfowl or waders 12.21 No wildfowl or waders 12.22 No wildfowl or waders 12.23 No wildfowl or waders 12.24 No wildfowl or waders 12.25 No wildfowl or waders 12.26 No wildfowl or waders 12.27 No wildfowl or waders 12.28 No wildfowl or waders 12.29 No wildfowl or waders 12.29 No wildfowl or waders 12.20 No wildfowl or waders 12.24 No wildfowl or waders 12.25 No wildfowl or waders 12.26 No wildfowl or waders 12.27 No wildfowl or waders 12.28 No wildfowl or waders 12.29 No wildfowl or waders 12.29 No wildfowl or waders 12.29 No wildfowl or waders 12.20 No wildfo	Time	Bird presence and movements	Other observations
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10.15 Gullsxsingles FU and FD Heavy wintry showers, tide rising 10.45 A few gulls on the upstream sandbank 11.00 Gullsxsingles FU and FD Downstream sandbank completely covered, no birds. Strong winds. 11.15 Gullsxsingles FU and FD, occasionally under bridges GLx2 moving downstream under bridges 11.30 Gullsxoccasional singles FU and FD High tide 12.00 Gullsxoccasional singles FU and FD Gullsxoccasional singles FU and FD High tide 12.15 Gullsxoccasional singles FU and FD High tide. Several 100 gulls swimming near downstream sandbank High tide. Several 100 gulls swimming near downstream sandbank High tide. Several 100 gulls swimming near downstream sandbank, strong west wind Several 100 gulls on downstream sandbank, tide ebbing, all gulls from Middle Estuary Several 100 gulls on downstream sandbank, tide ebbing, rain, poor visibility Several 100 gulls on downstream sandbank. Visibility poor, may be many more gulls.	10.00	No wildfowl or waders	
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12.00 Gullsxoccasional singles FU and FD 12.15 Gullsxoccasional singles FU and FD 12.30 No wildfowl or waders 12.45 No wildfowl or waders 13.00 No wildfowl or waders 13.00 Gullsxoccasional singles FU and FD High tide. Several 100 gulls swimming near downstream sandbank, strong west wind Several 100 gulls on downstream sandbank, tide ebbing, all gulls from Middle Estuary Several 100 gulls on downstream sandbank, tide ebbing, rain, poor visibility Several 100 gulls on downstream sandbank, tide ebbing, rain, poor visibility Several 100 gulls on downstream sandbank. Visibility poor, may be many more gulls.	11.30	Gullsxoccasional singles FU and FD	,
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12.30 No wildfowl or waders 12.45 No wildfowl or waders 13.00 No wildfowl or waders	12.00	Gullsxoccasional singles FU and FD	
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12.45 No wildfowl or waders Several 100 gulls on downstream sandbank, tide ebbing, rain, poor visibility Several 100 gulls on downstream sandbank. Visibility poor, may be many more gulls.	12.30	No wildfowl or waders	Several 100 gulls on downstream sandbank,
13.00 No wildfowl or waders Several 100 gulls on downstream sandbank. Visibility poor, may be many more gulls.	12.45	No wildfowl or waders	Several 100 gulls on downstream sandbank,
	13.00	No wildfowl or waders	Several 100 gulls on downstream sandbank.
	Cont.		, , , , , , , , , , , , , , , , , , , ,

Survey on 21-11-2006 continued		
Time	Bird presence and movements	Other observations
13.15	Gullsxoccasional singles FU and FD	Heavy rain, several 100 gulls on downstream sandbank
13.30	Gullsxoccasional singles FU and FD	Heavy rain, several 100 gulls on downstream sandbank
13.45	Gullsxoccasional singles FU and FD	Heavy rain, several 100 gulls on downstream sandbank
14.00	Gullsxoccasional singles FU and FD	Light rain, several 100 gulls on downstream sandbank
14.15	Gullsxoccasional singles FU and FD	Light rain, several 100 gulls on downstream sandbank
14.30	Gullsxoccasional singles FU and FD	Light rain, several 100 gulls on downstream sandbank
14.45	Gullsxoccasional singles FU and FD	Heavy rain, several 100 gulls on downstream sandbank
15.00	Gullsxoccasional singles FU and FD	Occasional rain, several 100 gulls on downstream sandbank
15.15	Gullsxlow nos. FU and FD	Occasional rain, several 100 gulls on downstream sandbank
15.30	Gullsxlow nos. FU and FD	Light rain, several 100 gulls on downstream sandbank
15.45	Gullsxlow-medium nos. FD	Light rain, several 100 gulls on downstream sandbank
16.00	Gullsxmedium nos. FD	Light rain, several 100 gulls on downstream sandbank, tide still ebbing
16.15	Gullsxlow nos. FD	Light rain, several 100 gulls on downstream sandbank, tide still ebbing
16.30	Gullsxlarge nos. FD	Occasional rain, several 100 gulls on downstream sandbank, low tide, getting dark
16.45	Gullsxlarge nos. FD	Light rain, low tide, almost dark

Survey on 18-12-2006 Weather: Dry, overcast Temp: 6°C Wind speed: 1-3 mph SE High water: 9.33 hours Low water: 16.08 hours

Time	Bird presence and movements	Other observations
7.45	Large nos. gulls FU over bridge	No birds on upstream or downstream sandbanks, rising tide, poor visibility
8.00	Large nos. gulls FU over bridge	No birds on upstream or downstream sandbanks
8.15	Large nos. gulls FU over bridge	No birds on upstream or downstream sandbanks
8.30	Large nos. gulls FU over bridge	No birds on upstream or downstream sandbanks
8.45	Modest nos. gulls FU over bridge	No birds on upstream or downstream sandbanks
9.00	Low nos. gulls FU over bridge	No birds on upstream or downstream sandbanks, daylight but poor visibility
9.03	MAxpair feeding downstream of bridge	No change, tide still rising
9.15	Low nos. gulls FU over bridge	No change
Cont.		

Survey on 1	18-12-2006 continued	
Time	Bird presence and movements	Other observations
9.30	Low nos. gulls FU over bridge	No change
9.45	Low nos. gulls FU over bridge	No change
10.00	Low nos. gulls FU over bridge	No change
10.15	Gullsxsingles FU & FD	Flock of mixed gulls (250+) on downstream
10.15	Guilsxsirigles FU & FD	sandbank + CAx4
10.17	Low nos. gulls FU over bridge	No change
10.22	Low nos. gulls FU over bridge	No change, high tide
10.25	CAx1 FD under bridges	No change, tide ebbing
10.26	Low nos. gulls FU over bridge	No change, tide ebbing
10.30	Gullsxoccasional singles FU and FD	No change, tide ebbing
10.45	Gullsxoccasional singles FU and FD	No change, tide ebbing, Hx1 feeding with gulls on downstream sandbank
11.00	Gullsxoccasional singles FU and FD	No change, tide ebbing, Hx1 feeding with gulls on downstream sandbank
11.09	CA FU below bridges	No change, tide ebbing, Hx1 feeding with gulls on downstream sandbank
11.15	Gullsxoccasional singles FU and FD	No change, tide ebbing, mixed flock of gulls in similar nos. +Hx1 still on downstream sandbank
11.22	No change but MAx3 swimming downstream below bridges	No change
11.30	Gullsxvery occasional singles FU and FD . Max3 feeding on bank	No change, tide ebbing, mixed flock of gulls in similar nos. still on downstream sandbank + Hx2
11.45	Gullsxvery occasional singles FU and FD . MAx3 feeding on bank. No other wildfowl or waders	No change, tide ebbing, mixed flock of gulls in similar nos. still on downstream sandbank + Hx2
11.49	No change but CAx1 FD beneath bridges	No change
11.59	No change but CAx1 FD beneath bridges	No change
12.00	Gullsxoccasional singles FU and FD	No change, tide ebbing, mixed flock of gulls in similar nos. still on downstream sandbank
12.15	Gullsxoccasional singles FU and FD	No change, tide ebbing, mixed flock of gulls in low nos. still on downstream sandbank
12.30	Gullsxoccasional singles FU and FD	Mixed flock of 500+ gulls on downstream sandbank + several CA and H
12.45	Gullsxoccasional singles FU and FD	Mixed flock of 500+ gulls on downstream sandbank + several CA and H
12.53	Gullsxoccasional singles FU and FD CAx1 FD below bridge	Mixed flock of 500+ gulls on downstream sandbank + several CA and H
13.00	Gullsxoccasional singles FU and FD	Mixed flock of 500+ gulls on downstream sandbank + several CA and H
13.15	Gullsxoccasional singles FU and FD	Mixed flock of 500+ gulls on downstream sandbank + several CA and H
13.30	Gullsxoccasional singles FU and FD	Mixed flock of 500+ gulls on downstream sandbank + several CA and H + CUx1
13.34	No change but CAx1 FD under bridge	No change
13.45	Gullsxoccasional singles FU and FD	Mixed flock of 500+ gulls on downstream sandbank + several CA and H + CUx1
14.00	No change	No change, tide still ebbing
14.15	Gullsxoccasional singles FU and FD	Mixed flock of 500+ gulls on downstream sandbank + several CA and H + CUx1
14.30	No change	No change
14.45	No change	No change
15.00	No change	No change, tide still ebbing
15.15	No change	No change, tide still ebbing
Cont.		

Survey on 1	Survey on 18-12-2006 continued		
Time	Bird presence and movements	Other observations	
15.30	Gullsxlarge nos. FD , some resting on downstream sandbank	Overcast, light failing	
15.45	Gullsxlarge nos. FD	Mixed flock of 500+ gulls, on downstream sandbank. Poor visibility.	
16.00	Gullsxlarge nos. FD	Mixed flock of 500+ gulls, on downstream sandbank. Very poor visibility.	
16.15	Gullsxlarge nos. FD	Unable to see downstream sandbank, getting dark	

Survey on 05-01-2007 Weather: Dry, heavy cloud Temp: 11 ℃ Wind speed: 20 mph W, 30mph gusts High water: 12.20 hours Low water: 6.37 and 19.17hours

Time	Bird presence and movements	Other observations
7.30	Gullsxsmall nos. FU	Very low tide
7.45	Large nos. gulls FU	Too dark to see upstream and downstream sandbanks
8.00	Large nos. gulls FU	Hx1 fishing and low nos. gulls feeding on upstream sandbank. Low no. gulls (250+) on downstream sandbank
8.15	Large nos. gulls FU	Hx1 fishing and low nos. gulls feeding on upstream sandbank. Low no. gulls (250+) on downstream sandbank
8.30	Very large nos. gulls FU	Hx1 fishing and low nos. gulls feeding on upstream sandbank. Low no. gulls (250+) on downstream sandbank
8.45	Large nos. gulls FU	Hx1 fishing and low nos. gulls feeding on upstream sandbank. Low no. gulls (250+) on downstream sandbank
9.00	Large nos. gulls FU. Hx1 fishing near bridge, then FU	Low nos. gulls feeding on upstream sandbank. Low no. gulls (250+) on downstream sandbank + Hx2. Strong wind blowing up Estuary, may have reduced gull numbers.
9.13	No change. Hx1 FD	No change
9.15	Large nos. gulls FU	Low nos. gulls feeding on upstream sandbank. Low no. gulls (250+) on downstream sandbank
9.21	CAx1 feeding below bridge	No change
9.28	CAx1 FD below bridges	No change
9.30	Moderate nos. gulls FU	No change.
9.45	Low nos. gulls FU , H and CA feeding near bridges	No change
10.00	Gullsxlow nos. FU and FD	No change
10.15	Gullsxocc. singles FU and FD	No change. No wildfowl or waders seen or heard. Tide very low
10.30	GullsXocc. singles FU and FD	No change. No wildfowl or waders seen or heard. Tide very low
10.31	No change	No change. Tide rising.
10.32	No change. Hx1 and CAx1 feeding near bridge FU	No change, tide rising
10.38	All birds on upstream sandbank FU	All birds on downstream sandbank moving to higher ground on sandbank as tide rises
Cont.		

— ·	05-01-2007 continued	011 1 -1
Time	Bird presence and movements	Other observations
	No change	No wildfowl or waders seen or heard. Tide ver low
10.45	All birds on upstream sandbank dispersed in Upper Estuary	All birds on downstream sandbank moved to higher ground on sandbank or swimming and feeding on incoming tide
10.47	No change	Tide rising rapidly
11.00	Gullsxocc. singles FU and FD	Many gulls downstream dispersed to Middle o Outer Estuary
11.15	Gullsxocc. singles FU and FD	Mixed gulls (200 approx) + CAx1 on downstream sandbank
11.30	No bird movements past the bridge	Mixed gulls (150 approx) on downstream sandbank.
11.45	No change	No change
11.48	No change	No change
12.00	No change	Rain, no change, tide rising
12.05	No change	No change, tide rising
12.15	Gullsxocc. singles FU and FD	No change
12.17	Gullsxocc. singles FU and FD CAx2 FU below bridges	No change
12.20	Gullsxocc. singles FU and FD	All gulls and other birds on downstream sandbank flown to Middle/Outer Estuary. Tide rising
12.30	No birds seen	No birds seen
12.45	Gullsxocc. singles FU and FD	Rain ceased. Almost high tide
13.00	Gullsxocc. singles FU and FD	Almost high tide
13.02	Gullsxocc. singles FU and FD	High tide
13.03	Gullsxocc. singles FU and FD	Tide beginning to ebb
13.15	Gullsxocc. singles FU and FD	Tide ebbing
13.30	Gullsxocc. singles FU and FD	Several 100 gulls flying about on downstrean sandbank
13.33	Gullsxocc. singles FU and FD	Several gulls and Hx1 landed on downstrean sandbank
13.45	Gullsxocc. singles FU and FD	Several 100 gulls on downstream sandbank
13.51	No change but CAx1 FD below bridge	No change, tide ebbing fast
14.00	Gullsxocc. singles FU and FD	Gulls x600+ on downstream sandbank. Upstream sandbank still covered
14.15	Gullsxocc. singles FU and FD	Gullsx1000+ on downstream sandbank + Hx: and CAx5, all feeding
14.30	Gullsxocc. singles FU and FD	Gullsx1000+ on downstream sandbank
14.33	No change but CAx2 FU	No change
14.45	Small nos. gulls FD	No change
15.00	Low nos. gulls FD	No change
15.15	Modest nos. gulls FD	Gullsx1500+ on downstream sandbank + Hx
15.30	Modest nos. gulls FD	Gullsx2000+ on downstream sandbank
15.45	Large nos. gulls FD	Gullsx1000+ on downstream sandbank
	Large nos. gulls FD	No change
16.00	Large 1103. gails 1 D	1.10 0.10.190
16.00 16.15	Large nos. gulls FD	No change, low tide, getting dark

Survey on 014-02-2007 Weather: Dry, overcast Temp: 7 °C Wind speed: 10 mph W High water: 8.38 and 21.15 hours Low water: 15.22 hours

Time	Bird presence and movements	Other observations
7.00	Low nos. gulls FU	Low tide
7.15	Large nos. gulls FU	Tide starting to rise
7.30	Large nos. gulls FU	Tide rising
7.39	Large nos. gulls FU and CGx2 FU below bridges	Tide rising
7.45	Very large nos. gulls FU	Mixed gulls (3000+) on downstream sandbank. Upstream sandbank covered by tide
7.47	No change but CAx2 FD beneath bridges	No change
8.00	Very large nos. gulls FU , from downstream sandbank and Middle/Outer Estuary	Mixed gulls (1500+) on downstream sandbank
8.15	Large nos. gulls FU	Several 100 mixed gulls on downstream sandbank + SUx2, CUx2 and CAx6, Rising tide
8.30	Large nos. gulls FU	200+ gulls on downstream sandbank + SUx2, CUx2 and CAx4
8.45	Modest nos. gulls FU	200+ gulls on downstream sandbank + SUx2, CUx2 and CAx4
9.00	Modest nos. gulls FU	200+ gulls on downstream sandbank + SUx2, CUx2 and CAx4
9.15	Low nos. gulls FU	200+ gulls on downstream sandbank + SUx2, CUx2 and CAx4, high tide
9.30	Gullsxoccasional singles FU and FD	200+ gulls on downstream sandbank + SUx2, CUx2 and CAx4, tide starting to ebb
9.45	Gullsxoccasional singles FU and FD	200+ gulls on downstream sandbank + SUx2, CUx2 and CAx4, tide ebbing
10.00	Gullsxoccasional singles FU and FD	200+ gulls on downstream sandbank + SUx2, CUx2 and CAx4, tide ebbing
10.15	Gullsxoccasional singles FU and FD	600+ gulls on downstream sandbank + SUx4, CUx2 and CAx6, tide ebbing
10.30	Gullsxoccasional singles FU and FD	1000+ gulls on downstream sandbank + SUx4, CUx2 and CAx6, tide ebbing
10.45	Gullsxoccasional singles FU and FD	1000+ gulls on downstream sandbank + SUx4, CUx2 and CAx6, tide ebbing
10.52	Peregrine Falcon hunting pigeons near both bridges	No change, upstream sandbank covered by tide
11.00	Gullsxoccasional singles FU and FD	1000+ gulls on downstream sandbank + SUx4, CUx2 and CAx6, tide ebbing
11.15	Gullsxoccasional singles FU and FD	1000+ gulls on downstream sandbank + SUx4, CUx2 and CAx6, tide ebbing
11.30	Gullsxoccasional singles FU and FD	1000+ gulls on downstream sandbank + SUx4, CUx2 and CAx6, tide ebbing
11.45	Gullsxoccasional singles FU and FD , CAx1 feeding under viaduct	1000+ gulls on downstream sandbank + SUx4, CUx2 and CAx6, tide ebbing
12.00	No change	No change
12.15	No change	No change
12.30	Gullsxoccasional singles FU and FD	1000+ gulls on downstream sandbank but scattered + SUx4, CUx2 and CAx6, tide ebbing
12.45	No change, no movements of wildfowl and waders between Upper and Middle estuaries	No change
Cont.		

Survey on 014-02-2007 continued			
Time	Bird presence and movements	Other observations	
13.00	No change	No change, upstream sandbank exposed but no birds present	
13.15	No change	No change, upstream sandbank exposed and 10 gulls present	
13.30	No change	No change, upstream sandbank exposed and 10 gulls present, low tide	
13.45	No change	No change, upstream sandbank exposed and 10 gulls present, low tide	
14.00	No change	No change, upstream sandbank exposed and 10 gulls present, low tide	
14.15	No change	No change, upstream sandbank exposed and 10 gulls present, low tide	
14.30	No change	No change, upstream sandbank exposed and 10 gulls present, low tide	
14.45	No change	No change, upstream sandbank exposed and 10 gulls present, low tide	
15.00	No change	No change, upstream sandbank exposed and 10 gulls present, low tide	
15.15	No change	No change, upstream sandbank exposed and 10 gulls present, low tide	
15.30	No change	No change, upstream sandbank exposed and 10 gulls present, low tide	
15.45	No change	No change, upstream sandbank exposed and 10 gulls present, low tide	
16.00	Low nos. gulls FD	No change, upstream sandbank exposed and 10 gulls present, low tide	
16.15	Low nos. gulls FD	No change, upstream sandbank exposed and 10 gulls present, low tide	
16.30	Modest nos. gulls FD	No change, upstream sandbank exposed and 10 gulls present, low tide	
16.45	Modest nos. gulls FD	No change, upstream sandbank exposed and 10 gulls present, low tide	
17.00	Large nos. gulls FD	No change, upstream sandbank exposed and 10 gulls present, low tide	
17.15	Large nos. gulls FD	No change, upstream sandbank exposed and 10 gulls present, sunset, low tide	
17.30	Large nos. gulls FD	No change, upstream sandbank exposed and 10 gulls present, sunset, low tide	
17.45	Large nos. gulls FD	No change, upstream sandbank exposed and 10 gulls present, sunset, low tide	
18.00	Large nos. gulls FD	No change, upstream sandbank exposed and 10 gulls present, sunset, low tide	