



Spiorad na Mara Offshore Wind Farm

Offshore Project

Environmental Impact Assessment Report

Annex 14.1.2: Unapportioned Abundance Estimates Turbine Area Plus Buffers, Volume 2c

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1 ANNEX 14.1.2: UNAPPORTIONED ABUNDANCE ESTIMATES TURBINE AREA PLUS BUFFERS

1.1 INTRODUCTION

1.1.1.1 This annex is intended to support the **Appendix 14.1: Ornithology Baseline Report, Volume 2c**. The tables in this annex set out the design-based abundance and density estimates for the following species:

- Curlew;
- Kittiwake;
- Black-headed gull;
- Common gull;
- Great black-backed gull;
- Herring gull;
- Arctic tern;
- Great skua;
- Arctic skua;
- Guillemot;
- Razorbill;
- Black guillemot;
- Puffin;
- Red-throated diver;
- Great northern diver;
- Fulmar;
- Manx shearwater;
- Sooty shearwater;
- Gannet.

1.1.1.2 And the following unidentified species groups:

- Auk species;
- Guillemot/razorbill species;
- Auk/shearwater species;
- Cormorant/shag species;
- Fulmar/gull species;
- Gull species;
- Large gull species;
- Small gull species;
- Storm petrel species;

- Small shearwater species;
- "Commic" tern species (common or Arctic terns);
- Wader species;
- Bird species.

1.1.1.3 When a species was recorded during the site-specific surveys, design-based abundance and density estimates are given for the following areas:

- Turbine Area;
- Turbine Area plus 2 km buffer;
- Turbine Area plus 4 km buffer.

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1.2 CURLEW

Table 1-1 Curlew design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
May 2023	2	18	2	72	<1	0	0	0	0	-	2	18	2	72	<1

Table 1-2 Curlew design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
May 2023	0.13	0.01	0.51	0.00	0.00	0.00	0.13	0.01	0.51

Table 1-3 Curlew design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
May 2023	2	18	2	53	0.944	0	0	0	0	-	2	18	2	53	0.944

Table 1-4 Curlew design-based density estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
May 2023	0.07	0.01	0.20	0.00	0.00	0.00	0.07	0.01	0.20

Table 1-5 Curlew design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
May 2023	2	17	2	52	0.995	0	0	0	0	-	2	17	2	52	0.995

Table 1-6 Curlew design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
May 2023	0.04	0.00	0.13	0.00	0.00	0.00	0.04	0.00	0.13

1.3 KITTIWAKE

Table 1-7 Kittiwake design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
April 2022	3	27	3	63	0.573	1	9	1	27	0.996	2	18	2	45	0.691
May 2022	4	35	4	96	0.808	3	27	3	79	<1	1	8	1	26	1
September 2022	1	9	1	26	0.995	1	9	1	26	0.995	0	0	0	0	-
October 2022	29	262	142	409	0.273	9	81	9	178	0.534	20	180	80	294	0.311
November 2022	19	166	88	265	0.276	0	0	0	0	-	19	166	88	265	0.276
December 2022	5	45	5	98	0.519	0	0	0	0	-	5	45	5	98	0.519
January 2023	52	461	344	591	0.137	5	44	9	88	0.456	47	417	300	547	0.144
February 2023	17	149	79	228	0.248	4	35	4	88	0.61	13	114	61	175	0.266
March 2023	25	221	25	615	0.808	20	176	20	527	<1	5	45	9	97	0.524
April 2023	2	18	2	44	0.725	1	9	1	27	<1	1	9	1	27	<1
October 2023	2	18	2	44	0.689	0	0	0	0	-	2	18	2	44	0.689
November 2023	4	37	4	89	0.618	0	0	0	0	-	4	37	4	89	0.618
December 2023	3	28	3	62	0.551	0	0	0	0	-	3	28	3	62	0.551
January 2024	1	9	1	27	0.996	0	0	0	0	-	1	9	1	27	0.996
February 2024	13	113	52	192	0.331	3	26	3	61	0.572	10	87	26	157	0.389

Table 1-8 Kittiwake design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
April 2022	0.19	0.02	0.45	0.06	0.01	0.19	0.13	0.01	0.32
May 2022	0.25	0.03	0.68	0.19	0.02	0.56	0.06	0.01	0.19

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
September 2022	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00
October 2022	1.87	1.01	2.92	0.58	0.06	1.27	1.28	0.57	2.10
November 2022	1.18	0.63	1.89	0.00	0.00	0.00	1.18	0.63	1.89
December 2022	0.32	0.04	0.70	0.00	0.00	0.00	0.32	0.04	0.70
January 2023	3.29	2.45	4.21	0.31	0.06	0.63	2.97	2.14	3.90
February 2023	1.06	0.56	1.63	0.25	0.03	0.63	0.81	0.44	1.25
March 2023	1.58	0.18	4.39	1.26	0.14	3.76	0.32	0.06	0.69
April 2023	0.13	0.01	0.31	0.06	0.01	0.19	0.06	0.01	0.19
October 2023	0.13	0.01	0.31	0.00	0.00	0.00	0.13	0.01	0.31
November 2023	0.26	0.03	0.63	0.00	0.00	0.00	0.26	0.03	0.63
December 2023	0.20	0.02	0.44	0.00	0.00	0.00	0.20	0.02	0.44
January 2024	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19
February 2024	0.81	0.37	1.37	0.19	0.02	0.44	0.62	0.19	1.12

Table 1-9 Kittiwake design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	2	18	2	44	0.676	0	0	0	0	-	2	18	2	44	0.676
April 2022	3	27	3	62	0.558	1	9	1	27	<1	2	18	2	44	0.699
May 2022	5	43	5	114	0.667	3	25	3	105	<1	2	18	2	44	0.682
September 2022	1	9	1	26	0.99	1	9	1	26	0.99	0	0	0	0	-
October 2022	40	354	195	539	0.247	10	89	18	195	0.505	30	266	124	424	0.285
November 2022	28	244	141	361	0.22	2	18	2	53	0.994	26	227	132	335	0.226
December 2022	5	44	9	97	0.538	0	0	0	0	-	5	44	9	97	0.538

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
January 2023	108	951	757	1154	0.105	16	140	62	238	0.34	92	810	643	986	0.108
February 2023	46	402	279	532	0.163	10	87	26	166	0.389	36	316	209	428	0.177
March 2023	27	230	27	604	0.729	20	168	20	525	0.984	7	62	18	114	0.425
April 2023	2	18	2	44	0.696	1	9	1	27	0.994	1	9	1	27	0.964
July 2023	3	26	3	62	0.712	3	26	3	62	0.712	0	0	0	0	-
October 2023	3	27	3	62	0.576	0	0	0	0	-	3	27	3	62	0.576
November 2023	4	35	4	80	0.619	0	0	0	0	-	4	35	4	80	0.619
December 2023	7	61	18	106	0.372	0	0	0	0	-	7	61	18	106	0.372
January 2024	1	8	1	27	<1	0	0	0	0	-	1	8	1	27	<1
February 2024	21	183	104	278	0.243	4	35	9	70	0.484	17	148	78	235	0.279

Table 1-10 Kittiwake design-based density estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.07	0.01	0.17	0.00	0.00	0.00	0.07	0.01	0.17
April 2022	0.10	0.01	0.24	0.03	0.00	0.10	0.07	0.01	0.17
May 2022	0.16	0.02	0.43	0.10	0.01	0.40	0.07	0.01	0.17
September 2022	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
October 2022	1.35	0.74	2.05	0.34	0.07	0.74	1.01	0.47	1.62
November 2022	0.93	0.54	1.38	0.07	0.01	0.20	0.87	0.50	1.28
December 2022	0.17	0.03	0.37	0.00	0.00	0.00	0.17	0.03	0.37
January 2023	3.62	2.88	4.40	0.53	0.24	0.91	3.09	2.45	3.76
February 2023	1.53	1.06	2.03	0.33	0.10	0.63	1.20	0.80	1.63
March 2023	0.88	0.10	2.30	0.64	0.08	2.00	0.24	0.07	0.43

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
April 2023	0.07	0.01	0.17	0.03	0.00	0.10	0.03	0.00	0.10
July 2023	0.10	0.01	0.24	0.10	0.01	0.24	0.00	0.00	0.00
October 2023	0.10	0.01	0.24	0.00	0.00	0.00	0.10	0.01	0.24
November 2023	0.13	0.02	0.30	0.00	0.00	0.00	0.13	0.02	0.30
December 2023	0.23	0.07	0.40	0.00	0.00	0.00	0.23	0.07	0.40
January 2024	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10
February 2024	0.70	0.40	1.06	0.13	0.03	0.27	0.56	0.30	0.90

Table 1-11 Kittiwake design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	4	35	9	69	0.495	0	0	0	0	-	4	35	9	69	0.495
April 2022	3	26	3	52	0.555	1	9	1	26	<1	2	17	2	43	0.696
May 2022	7	59	9	130	0.544	3	25	3	78	<1	4	34	9	69	0.505
July 2022	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-
September 2022	13	113	13	301	0.709	1	9	1	26	0.987	12	104	12	284	0.765
October 2022	56	484	313	670	0.196	18	155	52	278	0.377	38	328	191	496	0.234
November 2022	35	301	190	415	0.19	2	17	2	52	<1	33	284	173	397	0.192
December 2022	6	54	17	113	0.459	0	0	0	0	-	6	54	17	113	0.459
January 2023	162	1,394	1,138	1,672	0.097	25	215	103	345	0.282	137	1,179	939	1,456	0.104
February 2023	106	912	668	1,181	0.141	21	184	86	334	0.361	85	727	531	950	0.153
March 2023	77	661	120	1,505	0.557	61	522	61	1,341	0.701	16	139	60	224	0.306
April 2023	3	26	3	61	0.581	1	9	1	26	<1	2	18	2	43	0.708
May 2023	3	26	3	61	0.569	0	0	0	0	-	3	26	3	61	0.569

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
July 2023	4	34	4	87	0.629	3	25	3	70	0.77	1	9	1	26	0.999
September 2023	1	9	1	26	<1	0	0	0	0	-	1	9	1	26	<1
October 2023	9	76	17	173	0.57	5	42	5	130	0.957	4	34	9	78	0.509
November 2023	7	61	17	114	0.419	1	9	1	26	<1	6	53	9	105	0.462
December 2023	7	61	26	104	0.367	0	0	0	0	-	7	61	26	104	0.367
January 2024	2	18	2	44	0.682	0	0	0	0	-	2	18	2	44	0.682
February 2024	63	536	384	708	0.158	16	136	60	239	0.342	47	400	273	546	0.173

Table 1-12 Kittiwake design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.09	0.02	0.17	0.00	0.00	0.00	0.09	0.02	0.17
April 2022	0.06	0.01	0.13	0.02	0.00	0.06	0.04	0.00	0.11
May 2022	0.14	0.02	0.32	0.06	0.01	0.19	0.08	0.02	0.17
July 2022	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
September 2022	0.28	0.03	0.74	0.02	0.00	0.06	0.25	0.03	0.69
October 2022	1.18	0.76	1.64	0.38	0.13	0.68	0.80	0.47	1.21
November 2022	0.74	0.46	1.01	0.04	0.00	0.13	0.69	0.42	0.97
December 2022	0.13	0.04	0.28	0.00	0.00	0.00	0.13	0.04	0.28
January 2023	3.41	2.78	4.09	0.53	0.25	0.84	2.88	2.29	3.56
February 2023	2.23	1.63	2.89	0.45	0.21	0.82	1.78	1.30	2.32
March 2023	1.62	0.29	3.68	1.28	0.15	3.28	0.34	0.15	0.55
April 2023	0.06	0.01	0.15	0.02	0.00	0.06	0.04	0.00	0.11
May 2023	0.06	0.01	0.15	0.00	0.00	0.00	0.06	0.01	0.15

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
July 2023	0.08	0.01	0.21	0.06	0.01	0.17	0.02	0.00	0.06
September 2023	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06
October 2023	0.19	0.04	0.42	0.10	0.01	0.32	0.08	0.02	0.19
November 2023	0.15	0.04	0.28	0.02	0.00	0.06	0.13	0.02	0.26
December 2023	0.15	0.06	0.25	0.00	0.00	0.00	0.15	0.06	0.25
January 2024	0.04	0.00	0.11	0.00	0.00	0.00	0.04	0.00	0.11
February 2024	1.31	0.94	1.73	0.33	0.15	0.58	0.98	0.67	1.33

1.4 BLACK-HEADED GULL

Table 1-13 Black-headed gull design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
October 2022	1	9	1	26	0.984	0	0	0	0	-	1	9	1	26	0.984

Table 1-14 Black-headed gull design-based density estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
October 2022	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06

1.5 COMMON GULL

Table 1-15 Common gull design-based abundance estimates for Turbine Area 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
November 2023	1	9	1	36	<1	0	0	0	0	-	1	9	1	36	<1

Table 1-16 Common gull design-based density estimates for Turbine Area 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
November 2023	0.03	0.00	0.14	0.00	0.00	0.00	0.03	0.00	0.14

Table 1-17 Common gull design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
October 2023	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-
November 2023	2	18	2	44	0.679	0	0	0	0	-	2	18	2	44	0.679

Table 1-18 Common gull design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
October 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
November 2023	0.04	0.00	0.11	0.00	0.00	0.00	0.04	0.00	0.11

1.6 GREAT BLACK-BACKED GULL

Table 1-19 Great black-backed gull design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
October 2022	1	9	1	27	0.982	0	0	0	0	-	0	0	0	0	-
November 2022	3	27	3	62	0.565	2	18	2	44	0.680	1	9	1	35	<1
October 2023	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-
November 2023	2	18	2	45	0.684	2	18	2	45	0.684	0	0	0	0	-
December 2023	2	17	2	44	0.710	1	9	1	27	0.954	1	9	1	27	<1

Table 1-20 Great black-backed gull design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
October 2022	0.06	0.01	0.19	0.00	0.00	0.00	0.00	0.00	0.00
November 2022	0.19	0.02	0.44	0.13	0.01	0.31	0.06	0.01	0.25

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
October 2023	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00
November 2023	0.13	0.01	0.32	0.13	0.01	0.32	0.00	0.00	0.00
December 2023	0.12	0.01	0.31	0.06	0.01	0.19	0.06	0.01	0.19

Table 1-21 Great black-backed gull design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
October 2022	1	9	1	27	<1	1	9	1	27	<1	0	0	0	0	-
November 2022	5	44	9	97	0.506	4	34	4	79	0.594	1	9	1	26	0.972
February 2023	1	9	1	26	0.991	0	0	0	0	-	1	9	1	26	0.991
October 2023	1	9	1	26	0.968	1	9	1	26	0.968	0	0	0	0	-
November 2023	4	36	9	71	0.479	4	36	9	71	0.479	0	0	0	0	-
December 2023	2	18	2	44	0.697	1	9	1	26	0.993	1	9	1	26	0.984
January 2024	1	9	1	27	0.987	0	0	0	0	-	1	9	1	27	0.987

Table 1-22 Great black-backed gull design-based density estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
October 2022	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
November 2022	0.17	0.03	0.37	0.13	0.02	0.30	0.03	0.00	0.10
February 2023	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10
October 2023	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
November 2023	0.14	0.03	0.27	0.14	0.03	0.27	0.00	0.00	0.00
December 2023	0.07	0.01	0.17	0.03	0.00	0.10	0.03	0.00	0.10
January 2024	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10

Table 1-23 Great black-backed gull design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
October 2022	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-
November 2022	7	61	17	112	0.415	5	43	9	95	0.500	2	17	2	43	0.733
December 2022	2	18	2	52	0.954	2	18	2	52	0.954	0	0	0	0	-
January 2023	2	18	2	43	0.688	1	8	1	26	0.999	1	9	1	26	0.938
February 2023	2	17	2	43	0.709	0	0	0	0	-	2	17	2	43	0.709
October 2023	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-
November 2023	4	35	9	70	0.517	4	35	9	70	0.517	0	0	0	0	-
December 2023	3	26	3	61	0.599	2	17	2	43	0.726	1	9	1	26	0.995
January 2024	2	18	2	44	0.688	0	0	0	0	-	2	18	2	44	0.688

Table 1-24 Great black-backed gull design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
October 2022	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
November 2022	0.15	0.04	0.27	0.11	0.02	0.23	0.04	0.00	0.11
December 2022	0.04	0.00	0.13	0.04	0.00	0.13	0.00	0.00	0.00
January 2023	0.04	0.00	0.11	0.02	0.00	0.06	0.02	0.00	0.06
February 2023	0.04	0.00	0.11	0.00	0.00	0.00	0.04	0.00	0.11
October 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
November 2023	0.09	0.02	0.17	0.09	0.02	0.17	0.00	0.00	0.00
December 2023	0.06	0.01	0.15	0.04	0.00	0.11	0.02	0.00	0.06
January 2024	0.04	0.00	0.11	0.00	0.00	0.00	0.04	0.00	0.11

1.7 HERRING GULL

Table 1-25 Herring gull design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
November 2023	3	26	3	72	0.734	0	0	0	0	-	3	26	3	72	0.734

Table 1-26 Herring gull design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
November 2023	0.19	0.02	0.51	0.00	0.00	0.00	0.19	0.02	0.51

Table 1-27 Herring gull design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
November 2022	1	9	1	26	<1	0	0	0	0	-	1	9	1	26	<1
October 2023	1	9	1	26	0.998	0	0	0	0	-	1	9	1	26	0.998
November 2023	3	27	3	71	0.765	0	0	0	0	-	3	27	3	71	0.765

Table 1-28 Herring gull design-based density estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
November 2022	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10
October 2023	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10
November 2023	0.10	0.01	0.27	0.00	0.00	0.00	0.10	0.01	0.27

Table 1-29 Herring gull design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
November 2022	1	8	1	26	<1	0	0	0	0	-	1	8	1	26	<1
October 2023	1	8	1	26	0.984	0	0	0	0	-	1	8	1	26	0.984
November 2023	3	26	3	70	0.705	0	0	0	0	-	3	26	3	70	0.705

Table 1-30 Herring gull design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
November 2022	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06
October 2023	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06
November 2023	0.06	0.01	0.17	0.00	0.00	0.00	0.06	0.01	0.17

1.8 ARCTIC TERN

Table 1-31 Arctic tern design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
May 2022	23	204	23	578	0.892	0	0	0	0	-	23	204	23	578	0.892
June 2022	2	17	2	52	0.988	0	0	0	0	-	2	17	2	52	0.988
July 2022	11	97	11	236	0.677	0	0	0	0	-	11	97	11	236	0.677
August 2023	1	9	1	35	0.991	0	0	0	0	-	1	9	1	35	0.991

Table 1-32 Arctic tern design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
May 2022	1.45	0.16	4.12	0.00	0.00	0.00	1.45	0.16	4.12
June 2022	0.12	0.01	0.37	0.00	0.00	0.00	0.12	0.01	0.37
July 2022	0.69	0.08	1.68	0.00	0.00	0.00	0.69	0.08	1.68
August 2023	0.06	0.01	0.25	0.00	0.00	0.00	0.06	0.01	0.25

Table 1-33 Arctic tern design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
May 2022	25	229	25	596	0.774	0	0	0	0	-	25	229	25	596	0.774
June 2022	2	16	2	52	<1	0	0	0	0	-	2	16	2	52	<1
July 2022	24	209	35	464	0.515	0	0	0	0	-	24	209	35	464	0.515
July 2023	15	134	36	267	0.452	0	0	0	0	-	15	134	36	267	0.452

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
August 2023	1	9	1	26	0.966	0	0	0	0	-	1	9	1	26	0.966

Table 1-34 Arctic tern design-based density estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
May 2022	0.87	0.10	2.27	0.00	0.00	0.00	0.87	0.10	2.27
June 2022	0.06	0.01	0.20	0.00	0.00	0.00	0.06	0.01	0.20
July 2022	0.80	0.13	1.77	0.00	0.00	0.00	0.80	0.13	1.77
July 2023	0.51	0.14	1.02	0.00	0.00	0.00	0.51	0.14	1.02
August 2023	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10

Table 1-35 Arctic tern design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
May 2022	26	230	26	613	0.756	0	0	0	0	-	26	230	26	613	0.756
June 2022	2	16	2	51	<1	0	0	0	0	-	2	16	2	51	<1
July 2022	47	407	121	794	0.417	0	0	0	0	-	47	407	121	794	0.417
June 2023	3	27	3	62	0.551	0	0	0	0	-	3	27	3	62	0.551
July 2023	21	185	70	323	0.372	0	0	0	0	-	21	185	70	323	0.372
August 2023	4	35	4	77	0.578	0	0	0	0	-	4	35	4	77	0.578

Table 1-36 Arctic tern design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
May 2022	0.56	0.06	1.50	0.00	0.00	0.00	0.56	0.06	1.50
June 2022	0.04	0.00	0.12	0.00	0.00	0.00	0.04	0.00	0.12
July 2022	0.99	0.30	1.94	0.00	0.00	0.00	0.99	0.30	1.94
June 2023	0.07	0.01	0.15	0.00	0.00	0.00	0.07	0.01	0.15
July 2023	0.45	0.17	0.79	0.00	0.00	0.00	0.45	0.17	0.79
August 2023	0.09	0.01	0.19	0.00	0.00	0.00	0.09	0.01	0.19

1.9 GREAT SKUA

Table 1-37 Great skua design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
October 2022	1	10	1	35	0.979	1	10	1	35	0.979	0	0	0	0	-

Table 1-38 Great skua design-based density estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
October 2022	0.04	0.00	0.13	0.04	0.00	0.13	0.00	0.00	0.00

Table 1-39 Great skua design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
August 2022	1	9	1	34	0.989	0	0	0	0	-	1	9	1	34	0.989
October 2022	1	8	1	26	0.991	1	8	1	26	0.991	0	0	0	0	-

Table 1-40 Great skua design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
August 2022	0.02	0.00	0.08	0.00	0.00	0.00	0.02	0.00	0.08
October 2022	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00

1.10 ARCTIC SKUA

Table 1-41 Arctic skua design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
September 2023	1	8	1	26	<1	0	0	0	0	-	1	8	1	26	<1

Table 1-42 Arctic skua design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
September 2023	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06

1.11 GUILLEMOT

Table 1-43 Guillemot design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	36	320	178	473	0.235	29	259	143	410	0.266	7	61	9	125	0.477
April 2022	6	54	18	99	0.386	5	46	9	81	0.419	1	9	1	27	0.978
May 2022	13	115	35	219	0.368	13	115	35	219	0.368	0	0	0	0	-
June 2022	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-
July 2022	16	142	44	289	0.455	9	78	18	149	0.428	7	64	7	210	0.863
September 2022	127	1,103	784	1,473	0.157	127	1,103	784	1,473	0.157	0	0	0	0	-

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
October 2022	15	134	71	214	0.272	12	107	53	178	0.315	3	27	3	62	0.577
November 2022	3	26	3	71	0.707						3	26	3	71	0.707
December 2022	1	9	1	27	0.991	1	9	1	27	0.991	0	0	0	0	-
January 2023	9	81	26	150	0.416	9	81	26	150	0.416	0	0	0	0	-
February 2023	7	61	18	114	0.37	7	61	18	114	0.37	0	0	0	0	-
March 2023	21	182	105	273	0.226	20	174	97	264	0.234	1	9	1	26	<1
April 2023	13	116	44	205	0.356	8	71	18	151	0.47	5	45	9	98	0.521
May 2023	8	72	18	136	0.399	5	45	9	90	0.463	3	27	3	72	0.73
June 2023	5	46	9	91	0.441	5	46	9	91	0.441	0	0	0	0	-
July 2023	5	45	9	98	0.518	4	36	4	89	0.597	1	9	1	36	<1
August 2023	24	212	106	325	0.269	24	212	106	325	0.269	0	0	0	0	-
September 2023	56	493	272	772	0.257	56	493	272	772	0.257	0	0	0	0	-
October 2023	2	18	2	44	0.684	2	18	2	44	0.684	0	0	0	0	-
November 2023	1	9	1	36	<1	1	9	1	36	<1	0	0	0	0	-
December 2023	2	17	2	44	0.726	1	9	1	27	<1	1	9	1	27	0.996
January 2024	10	91	27	171	0.385	10	91	27	171	0.385	0	0	0	0	-
February 2024	9	77	26	139	0.377	9	77	26	139	0.377	0	0	0	0	-

Table 1-44 Guillemot design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	2.28	1.27	3.37	1.85	1.02	2.92	0.44	0.06	0.89
April 2022	0.39	0.13	0.71	0.33	0.06	0.58	0.06	0.01	0.19
May 2022	0.82	0.25	1.56	0.82	0.25	1.56	0.00	0.00	0.00
June 2022	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
July 2022	1.01	0.31	2.06	0.56	0.13	1.06	0.46	0.05	1.50
September 2022	7.87	5.59	10.50	7.87	5.59	10.50	0.00	0.00	0.00
October 2022	0.96	0.51	1.53	0.76	0.38	1.27	0.19	0.02	0.44
November 2022	0.19	0.02	0.51	0.00	0.00	0.00	0.19	0.02	0.51
December 2022	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00
January 2023	0.58	0.19	1.07	0.58	0.19	1.07	0.00	0.00	0.00
February 2023	0.44	0.13	0.81	0.44	0.13	0.81	0.00	0.00	0.00
March 2023	1.30	0.75	1.95	1.24	0.69	1.88	0.06	0.01	0.19
April 2023	0.83	0.31	1.46	0.51	0.13	1.08	0.32	0.06	0.70
May 2023	0.51	0.13	0.97	0.32	0.06	0.64	0.19	0.02	0.51
June 2023	0.33	0.06	0.65	0.33	0.06	0.65	0.00	0.00	0.00
July 2023	0.32	0.06	0.70	0.26	0.03	0.63	0.06	0.01	0.26
August 2023	1.51	0.76	2.32	1.51	0.76	2.32	0.00	0.00	0.00
September 2023	3.52	1.94	5.51	3.52	1.94	5.51	0.00	0.00	0.00
October 2023	0.13	0.01	0.31	0.13	0.01	0.31	0.00	0.00	0.00
November 2023	0.06	0.01	0.26	0.06	0.01	0.26	0.00	0.00	0.00
December 2023	0.12	0.01	0.31	0.06	0.01	0.19	0.06	0.01	0.19
January 2024	0.65	0.19	1.22	0.65	0.19	1.22	0.00	0.00	0.00
February 2024	0.55	0.19	0.99	0.55	0.19	0.99	0.00	0.00	0.00

Table 1-45 Guillemot design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	95	838	564	1,164	0.184	79	697	423	1,014	0.214	16	141	62	229	0.307
April 2022	16	141	53	257	0.359	9	78	27	142	0.361	7	62	7	159	0.669
May 2022	30	256	140	394	0.246	28	239	131	368	0.255	2	17	2	53	<1
June 2022	2	17	2	43	0.744	2	17	2	43	0.744	0	0	0	0	-
July 2022	30	262	122	446	0.315	14	123	52	219	0.334	16	140	17	289	0.512
August 2022	5	43	5	96	0.54	5	43	5	96	0.54	0	0	0	0	-
September 2022	220	1,929	1,510	2,426	0.117	220	1,929	1,510	2,426	0.117	0	0	0	0	-
October 2022	25	222	124	345	0.254	17	151	80	239	0.26	8	71	18	159	0.561
November 2022	3	25	3	70	0.748	0	0	0	0	-	3	25	3	70	0.748
December 2022	2	18	2	44	0.705	2	18	2	44	0.705	0	0	0	0	-
January 2023	18	157	79	247	0.267	18	157	79	247	0.267	0	0	0	0	-
February 2023	16	139	70	227	0.279	14	121	61	201	0.282	2	18	2	52	0.962
March 2023	43	375	245	517	0.174	42	366	245	508	0.176	1	9	1	26	<1
April 2023	26	230	133	345	0.228	18	159	89	257	0.273	8	70	18	124	0.396
May 2023	10	88	35	150	0.34	7	62	18	106	0.374	3	27	3	71	0.743
June 2023	11	101	36	181	0.368	11	101	36	181	0.368	0	0	0	0	-
July 2023	18	158	71	258	0.301	12	106	36	178	0.351	6	52	9	116	0.538
August 2023	41	359	236	516	0.201	41	359	236	516	0.201	0	0	0	0	-
September 2023	99	872	559	1,223	0.193	99	872	559	1,223	0.193	0	0	0	0	-
October 2023	3	26	3	62	0.571	3	26	3	62	0.571	0	0	0	0	-
November 2023	2	17	2	45	0.706	2	17	2	45	0.706	0	0	0	0	-
December 2023	3	27	3	62	0.587	2	18	2	44	0.727	1	9	1	35	0.972
January 2024	25	224	125	350	0.257	25	224	125	350	0.257	0	0	0	0	-
February 2024	20	174	96	261	0.25	20	174	96	261	0.25	0	0	0	0	-

Table 1-46 Guillemot design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	3.19	2.15	4.44	2.66	1.61	3.86	0.54	0.24	0.87
April 2022	0.54	0.20	0.98	0.30	0.10	0.54	0.24	0.03	0.61
May 2022	0.98	0.53	1.50	0.91	0.50	1.40	0.06	0.01	0.20
June 2022	0.06	0.01	0.16	0.06	0.01	0.16	0.00	0.00	0.00
July 2022	1.00	0.46	1.70	0.47	0.20	0.83	0.53	0.06	1.10
August 2022	0.16	0.02	0.37	0.16	0.02	0.37	0.00	0.00	0.00
September 2022	7.35	5.75	9.24	7.35	5.75	9.24	0.00	0.00	0.00
October 2022	0.85	0.47	1.31	0.58	0.30	0.91	0.27	0.07	0.61
November 2022	0.10	0.01	0.27	0.00	0.00	0.00	0.10	0.01	0.27
December 2022	0.07	0.01	0.17	0.07	0.01	0.17	0.00	0.00	0.00
January 2023	0.60	0.30	0.94	0.60	0.30	0.94	0.00	0.00	0.00
February 2023	0.53	0.27	0.87	0.46	0.23	0.77	0.07	0.01	0.20
March 2023	1.43	0.93	1.97	1.39	0.93	1.94	0.03	0.00	0.10
April 2023	0.88	0.51	1.31	0.61	0.34	0.98	0.27	0.07	0.47
May 2023	0.34	0.13	0.57	0.24	0.07	0.40	0.10	0.01	0.27
June 2023	0.38	0.14	0.69	0.38	0.14	0.69	0.00	0.00	0.00
July 2023	0.60	0.27	0.98	0.40	0.14	0.68	0.20	0.03	0.44
August 2023	1.37	0.90	1.97	1.37	0.90	1.97	0.00	0.00	0.00
September 2023	3.32	2.13	4.66	3.32	2.13	4.66	0.00	0.00	0.00
October 2023	0.10	0.01	0.24	0.10	0.01	0.24	0.00	0.00	0.00
November 2023	0.06	0.01	0.17	0.06	0.01	0.17	0.00	0.00	0.00
December 2023	0.10	0.01	0.24	0.07	0.01	0.17	0.03	0.00	0.13
January 2024	0.85	0.48	1.33	0.85	0.48	1.33	0.00	0.00	0.00
February 2024	0.66	0.37	0.99	0.66	0.37	0.99	0.00	0.00	0.00

Table 1-47 Guillemot design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	124	1,073	770	1,444	0.155	108	933	649	1,263	0.172	16	140	61	225	0.293
April 2022	33	282	147	433	0.254	17	145	69	243	0.304	16	137	52	251	0.397
May 2022	53	461	294	648	0.198	50	435	277	622	0.206	3	26	3	69	0.722
June 2022	2	17	2	43	0.72	2	17	2	43	0.72	0	0	0	0	-
July 2022	36	309	164	501	0.284	19	164	78	276	0.297	17	145	35	311	0.502
August 2022	13	113	43	198	0.35	13	113	43	198	0.35	0	0	0	0	-
September 2022	344	2,961	2,418	3,520	0.092	343	2,952	2,418	3,511	0.092	1	8	1	26	0.99
October 2022	35	305	183	435	0.208	23	200	104	296	0.236	12	105	35	200	0.401
November 2022	11	95	26	190	0.422	8	69	9	147	0.5	3	26	3	69	0.763
December 2022	9	79	26	148	0.367	9	79	26	148	0.367	0	0	0	0	-
January 2023	31	267	164	396	0.22	31	267	164	396	0.22	0	0	0	0	-
February 2023	30	258	163	368	0.203	26	224	137	317	0.207	4	34	4	86	0.709
March 2023	86	738	525	972	0.152	85	729	516	963	0.154	1	9	1	26	0.998
April 2023	54	470	330	626	0.155	44	384	252	530	0.176	10	86	35	148	0.349
May 2023	13	113	52	182	0.295	9	79	26	130	0.337	4	34	4	87	0.614
June 2023	24	213	106	337	0.265	24	213	106	337	0.265	0	0	0	0	-
July 2023	32	278	140	454	0.291	17	148	61	236	0.306	15	130	26	279	0.51
August 2023	87	752	534	981	0.151	87	752	534	981	0.151	0	0	0	0	-
September 2023	211	1,818	1,338	2,402	0.151	211	1,818	1,338	2,402	0.151	0	0	0	0	-
October 2023	5	44	9	87	0.429	4	35	9	69	0.466	1	8	1	26	<1
November 2023	8	70	17	122	0.376	6	52	17	96	0.386	2	17	2	52	<1
December 2023	7	62	26	113	0.361	6	53	17	95	0.388	1	9	1	26	0.993
January 2024	40	353	220	492	0.204	40	353	220	492	0.204	0	0	0	0	-
February 2024	30	255	162	375	0.201	30	255	162	375	0.201	0	0	0	0	-

Table 1-48 Guillemot design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	2.62	1.88	3.53	2.28	1.59	3.09	0.34	0.15	0.55
April 2022	0.69	0.36	1.06	0.35	0.17	0.59	0.33	0.13	0.61
May 2022	1.13	0.72	1.58	1.06	0.68	1.52	0.06	0.01	0.17
June 2022	0.04	0.00	0.11	0.04	0.00	0.11	0.00	0.00	0.00
July 2022	0.76	0.40	1.22	0.40	0.19	0.67	0.35	0.09	0.76
August 2022	0.28	0.11	0.48	0.28	0.11	0.48	0.00	0.00	0.00
September 2022	7.24	5.91	8.60	7.21	5.91	8.58	0.02	0.00	0.06
October 2022	0.75	0.45	1.06	0.49	0.25	0.72	0.26	0.09	0.49
November 2022	0.23	0.06	0.46	0.17	0.02	0.36	0.06	0.01	0.17
December 2022	0.19	0.06	0.36	0.19	0.06	0.36	0.00	0.00	0.00
January 2023	0.65	0.40	0.97	0.65	0.40	0.97	0.00	0.00	0.00
February 2023	0.63	0.40	0.90	0.55	0.33	0.77	0.08	0.01	0.21
March 2023	1.80	1.28	2.38	1.78	1.26	2.35	0.02	0.00	0.06
April 2023	1.15	0.81	1.53	0.94	0.62	1.30	0.21	0.09	0.36
May 2023	0.28	0.13	0.44	0.19	0.06	0.32	0.08	0.01	0.21
June 2023	0.52	0.26	0.82	0.52	0.26	0.82	0.00	0.00	0.00
July 2023	0.68	0.34	1.11	0.36	0.15	0.58	0.32	0.06	0.68
August 2023	1.84	1.30	2.40	1.84	1.30	2.40	0.00	0.00	0.00
September 2023	4.44	3.27	5.87	4.44	3.27	5.87	0.00	0.00	0.00
October 2023	0.11	0.02	0.21	0.09	0.02	0.17	0.02	0.00	0.06
November 2023	0.17	0.04	0.30	0.13	0.04	0.23	0.04	0.00	0.13
December 2023	0.15	0.06	0.28	0.13	0.04	0.23	0.02	0.00	0.06
January 2024	0.86	0.54	1.20	0.86	0.54	1.20	0.00	0.00	0.00
February 2024	0.62	0.40	0.92	0.62	0.40	0.92	0.00	0.00	0.00

1.12 RAZORBILL

Table 1-49 Razorbill design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	42	376	178	616	0.3	42	376	178	616	0.3	0	0	0	0	-
May 2022	3	26	3	70	0.717	3	26	3	70	0.717	0	0	0	0	-
September 2022	20	173	70	296	0.32	20	173	70	296	0.32	0	0	0	0	-
February 2023	3	27	3	61	0.56	3	27	3	61	0.56	0	0	0	0	-
March 2023	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-
April 2023	1	9	1	27	0.933	0	0	0	0	-	1	9	1	27	0.933
June 2023	1	9	1	27	<1	1	9	1	27	<1	0	0	0	0	-
July 2023	1	9	1	27	0.981	1	9	1	27	0.981	0	0	0	0	-
August 2023	38	339	150	581	0.315	38	339	150	581	0.315	0	0	0	0	-
September 2023	7	61	18	105	0.372	7	61	18	105	0.372	0	0	0	0	-
January 2024	2	17	2	45	0.715	2	17	2	45	0.715	0	0	0	0	-
February 2024	19	163	70	279	0.33	19	163	70	279	0.33	0	0	0	0	-

Table 1-50 Razorbill design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	2.68	1.27	4.39	2.68	1.27	4.39	0.00	0.00	0.00
May 2022	0.19	0.02	0.50	0.19	0.02	0.50	0.00	0.00	0.00
September 2022	1.23	0.50	2.11	1.23	0.50	2.11	0.00	0.00	0.00

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
February 2023	0.19	0.02	0.44	0.19	0.02	0.44	0.00	0.00	0.00
March 2023	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00
April 2023	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19
June 2023	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00
July 2023	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00
August 2023	2.42	1.07	4.14	2.42	1.07	4.14	0.00	0.00	0.00
September 2023	0.44	0.13	0.75	0.44	0.13	0.75	0.00	0.00	0.00
January 2024	0.12	0.01	0.32	0.12	0.01	0.32	0.00	0.00	0.00
February 2024	1.16	0.50	1.99	1.16	0.50	1.99	0.00	0.00	0.00

Table 1-51 Razorbill design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	55	492	282	741	0.243	55	492	282	741	0.243	0	0	0	0	-
April 2022	4	35	4	97	0.778	4	35	4	97	0.778	0	0	0	0	-
May 2022	3	25	3	70	0.708	3	25	3	70	0.708	0	0	0	0	-
July 2022	7	61	7	149	0.64	7	61	7	149	0.64	0	0	0	0	-
August 2022	2	18	2	44	0.675	2	18	2	44	0.675	0	0	0	0	-
September 2022	37	324	183	480	0.232	35	307	175	463	0.238	2	17	2	52	<1
February 2023	8	70	9	148	0.503	8	70	9	148	0.503	0	0	0	0	-
March 2023	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-
April 2023	2	18	2	44	0.736	1	9	1	27	0.985	1	9	1	27	<1
June 2023	3	27	3	63	0.591	2	18	2	45	0.712	1	9	1	27	0.989
July 2023	1	9	1	27	0.935	1	9	1	27	0.935	0	0	0	0	-
August 2023	59	513	289	753	0.235	59	513	289	753	0.235	0	0	0	0	-

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
September 2023	17	149	79	218	0.244	17	149	79	218	0.244	0	0	0	0	-
October 2023	2	18	2	44	0.725	2	18	2	44	0.725	0	0	0	0	-
January 2024	7	63	18	117	0.417	7	63	18	117	0.417	0	0	0	0	-
February 2024	29	252	130	400	0.276	28	243	122	391	0.283	1	9	1	26	0.988

Table 1-52 Razorbill design-based density estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	1.87	1.07	2.82	1.87	1.07	2.82	0.00	0.00	0.00
April 2022	0.13	0.02	0.37	0.13	0.02	0.37	0.00	0.00	0.00
May 2022	0.10	0.01	0.27	0.10	0.01	0.27	0.00	0.00	0.00
July 2022	0.23	0.03	0.57	0.23	0.03	0.57	0.00	0.00	0.00
August 2022	0.07	0.01	0.17	0.07	0.01	0.17	0.00	0.00	0.00
September 2022	1.23	0.70	1.83	1.17	0.67	1.76	0.06	0.01	0.20
February 2023	0.27	0.03	0.56	0.27	0.03	0.56	0.00	0.00	0.00
March 2023	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
April 2023	0.07	0.01	0.17	0.03	0.00	0.10	0.03	0.00	0.10
June 2023	0.10	0.01	0.24	0.07	0.01	0.17	0.03	0.00	0.10
July 2023	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
August 2023	1.95	1.10	2.87	1.95	1.10	2.87	0.00	0.00	0.00
September 2023	0.57	0.30	0.83	0.57	0.30	0.83	0.00	0.00	0.00
October 2023	0.07	0.01	0.17	0.07	0.01	0.17	0.00	0.00	0.00
January 2024	0.24	0.07	0.45	0.24	0.07	0.45	0.00	0.00	0.00
February 2024	0.96	0.50	1.52	0.93	0.46	1.49	0.03	0.00	0.10

Table 1-53 Razorbill design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	68	593	363	874	0.214	67	584	355	865	0.217	1	9	1	26	<1
April 2022	21	183	43	372	0.463	19	166	26	355	0.504	2	18	2	52	0.981
May 2022	5	44	5	104	0.589	5	44	5	104	0.589	0	0	0	0	-
July 2022	19	164	52	294	0.378	19	164	52	294	0.378	0	0	0	0	-
August 2022	3	26	3	60	0.564	3	26	3	60	0.564	0	0	0	0	-
September 2022	58	499	327	697	0.188	56	482	318	680	0.191	2	17	2	52	<1
November 2022	2	17	2	43	0.731	2	17	2	43	0.731	0	0	0	0	-
February 2023	14	121	43	214	0.365	11	95	34	180	0.394	3	26	3	77	<1
March 2023	4	35	9	69	0.49	4	35	9	69	0.49	0	0	0	0	-
April 2023	3	27	3	61	0.551	2	18	2	43	0.682	1	9	1	26	0.996
May 2023	2	18	2	43	0.69	2	18	2	43	0.69	0	0	0	0	-
June 2023	6	53	9	106	0.485	5	44	9	98	0.55	1	9	1	27	<1
July 2023	1	9	1	26	0.994	1	9	1	26	0.994	0	0	0	0	-
August 2023	96	817	542	1128	0.187	96	817	542	1128	0.187	0	0	0	0	-
September 2023	53	454	292	643	0.199	53	454	292	643	0.199	0	0	0	0	-
October 2023	4	34	9	78	0.508	4	34	9	78	0.508	0	0	0	0	-
November 2023	2	18	2	44	0.686	2	18	2	44	0.686	0	0	0	0	-
January 2024	10	88	35	158	0.351	10	88	35	158	0.351	0	0	0	0	-
February 2024	39	332	196	512	0.238	38	323	179	495	0.244	1	9	1	26	0.995

Table 1-54 Razorbill design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	1.45	0.89	2.14	1.43	0.87	2.11	0.02	0.00	0.06
April 2022	0.45	0.11	0.91	0.41	0.06	0.87	0.04	0.00	0.13
May 2022	0.11	0.01	0.25	0.11	0.01	0.25	0.00	0.00	0.00
July 2022	0.40	0.13	0.72	0.40	0.13	0.72	0.00	0.00	0.00
August 2022	0.06	0.01	0.15	0.06	0.01	0.15	0.00	0.00	0.00
September 2022	1.22	0.80	1.70	1.18	0.78	1.66	0.04	0.00	0.13
November 2022	0.04	0.00	0.11	0.04	0.00	0.11	0.00	0.00	0.00
February 2023	0.30	0.11	0.52	0.23	0.08	0.44	0.06	0.01	0.19
March 2023	0.09	0.02	0.17	0.09	0.02	0.17	0.00	0.00	0.00
April 2023	0.07	0.01	0.15	0.04	0.00	0.11	0.02	0.00	0.06
May 2023	0.04	0.00	0.11	0.04	0.00	0.11	0.00	0.00	0.00
June 2023	0.13	0.02	0.26	0.11	0.02	0.24	0.02	0.00	0.07
July 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
August 2023	2.00	1.32	2.76	2.00	1.32	2.76	0.00	0.00	0.00
September 2023	1.11	0.71	1.57	1.11	0.71	1.57	0.00	0.00	0.00
October 2023	0.08	0.02	0.19	0.08	0.02	0.19	0.00	0.00	0.00
November 2023	0.04	0.00	0.11	0.04	0.00	0.11	0.00	0.00	0.00
January 2024	0.22	0.09	0.39	0.22	0.09	0.39	0.00	0.00	0.00
February 2024	0.81	0.48	1.25	0.79	0.44	1.21	0.02	0.00	0.06

1.13 BLACK GUILLEMOT

Table 1-55 Black guillemot design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
July 2022	1	9	1	26	0.993	0	0	0	0	-	0	0	0	0	-
October 2023	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-

Table 1-56 Black guillemot design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
July 2022	0.06	0.01	0.19	0.00	0.00	0.00	0.00	0.00	0.00
October 2023	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00

Table 1-57 Black guillemot design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
July 2022	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-
November 2022	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-
March 2023	1	9	1	26	0.981	1	9	1	26	0.981	0	0	0	0	-
October 2023	1	9	1	26	0.973	1	9	1	26	0.973	0	0	0	0	-

Table 1-58 Black guillemot design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
July 2022	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
November 2022	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
March 2023	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
October 2023	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00

Table 1-59 Black guillemot design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	3	26	3	61	0.566	3	26	3	61	0.566	0	0	0	0	-
July 2022	1	8	1	26	0.98	1	8	1	26	0.98	0	0	0	0	-
November 2022	1	9	1	26	0.999	1	9	1	26	0.999	0	0	0	0	-
December 2022	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-
March 2023	9	77	26	138	0.354	9	77	26	138	0.354	0	0	0	0	-
April 2023	2	17	2	43	0.696	2	17	2	43	0.696	0	0	0	0	-

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
October 2023	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-
November 2023	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-
February 2024	2	17	2	43	0.69	2	17	2	43	0.69	0	0	0	0	-

Table 1-60 Black guillemot design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.06	0.01	0.15	0.06	0.01	0.15	0.00	0.00	0.00
July 2022	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
November 2022	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
December 2022	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
March 2023	0.19	0.06	0.34	0.19	0.06	0.34	0.00	0.00	0.00
April 2023	0.04	0.00	0.11	0.04	0.00	0.11	0.00	0.00	0.00
October 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
November 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
February 2024	0.04	0.00	0.11	0.04	0.00	0.11	0.00	0.00	0.00

1.14 PUFFIN

Table 1-61 Puffin design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	1	9	1	27	0.993	1	9	1	27	0.993	0	0	0	0	-
April 2022	3	26	3	81	0.998	3	26	3	81	0.998	0	0	0	0	-
July 2022	338	2,941	2,004	4,060	0.176	215	1,861	1,094	2,783	0.237	123	1,080	569	1,689	0.269
September 2022	18	156	61	270	0.372	18	156	61	270	0.372	0	0	0	0	-
October 2022	5	45	9	107	0.535	5	45	9	107	0.535	0	0	0	0	-
April 2023	25	221	71	409	0.374	4	35	4	98	0.771	21	187	53	356	0.426
June 2023	5	46	5	127	0.689	5	46	5	127	0.689	0	0	0	0	-
July 2023	16	146	45	286	0.414	9	82	9	206	0.62	7	64	9	134	0.5
August 2023	19	169	62	299	0.371	19	169	62	299	0.371	0	0	0	0	-
September 2023	8	69	26	123	0.343	8	69	26	123	0.343	0	0	0	0	-
October 2023	7	61	18	106	0.371	7	61	18	106	0.371	0	0	0	0	-
November 2023	1	9	1	27	0.989	1	9	1	27	0.989	0	0	0	0	-

Table 1-62 Puffin design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00
April 2022	0.19	0.02	0.58	0.19	0.02	0.58	0.00	0.00	0.00
July 2022	20.97	14.29	28.95	13.27	7.80	19.85	7.70	4.06	12.05
September 2022	1.11	0.44	1.93	1.11	0.44	1.93	0.00	0.00	0.00
October 2022	0.32	0.06	0.76	0.32	0.06	0.76	0.00	0.00	0.00
April 2023	1.58	0.51	2.92	0.25	0.03	0.70	1.33	0.38	2.54

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
June 2023	0.33	0.04	0.91	0.33	0.04	0.91	0.00	0.00	0.00
July 2023	1.04	0.32	2.04	0.58	0.06	1.47	0.46	0.06	0.96
August 2023	1.21	0.44	2.13	1.21	0.44	2.13	0.00	0.00	0.00
September 2023	0.49	0.19	0.88	0.49	0.19	0.88	0.00	0.00	0.00
October 2023	0.44	0.13	0.76	0.44	0.13	0.76	0.00	0.00	0.00
November 2023	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00

Table 1-63 Puffin design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	1	9	1	26	0.986	1	9	1	26	0.986	0	0	0	0	-
April 2022	6	53	6	124	0.62	6	53	6	124	0.62	0	0	0	0	-
July 2022	727	6,362	4,382	8,581	0.169	522	4,581	2,729	6,718	0.222	205	1,782	1,076	2,475	0.204
August 2022	4	35	4	87	0.626	4	35	4	87	0.626	0	0	0	0	-
September 2022	41	358	175	576	0.288	41	358	175	576	0.288	0	0	0	0	-
October 2022	7	61	9	124	0.465	7	61	9	124	0.465	0	0	0	0	-
April 2023	34	295	133	496	0.33	5	44	5	115	0.666	29	251	97	451	0.374
May 2023	3	26	3	53	0.564	2	17	2	44	0.691	1	9	1	27	0.991
June 2023	8	72	18	145	0.466	8	72	18	145	0.466	0	0	0	0	-
July 2023	32	279	142	453	0.281	14	122	36	258	0.468	18	157	62	284	0.354
August 2023	52	449	280	648	0.212	52	449	280	648	0.212	0	0	0	0	-
September 2023	24	208	114	297	0.214	24	208	114	297	0.214	0	0	0	0	-
October 2023	16	140	62	229	0.321	16	140	62	229	0.321	0	0	0	0	-
November 2023	2	17	2	45	0.726	2	17	2	45	0.726	0	0	0	0	-
January 2024	1	9	1	27	0.979	1	9	1	27	0.979	0	0	0	0	-

Table 1-64 Puffin design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
April 2022	0.20	0.02	0.47	0.20	0.02	0.47	0.00	0.00	0.00
July 2022	24.24	16.70	32.70	17.46	10.40	25.60	6.79	4.10	9.43
August 2022	0.13	0.02	0.33	0.13	0.02	0.33	0.00	0.00	0.00
September 2022	1.36	0.67	2.19	1.36	0.67	2.19	0.00	0.00	0.00
October 2022	0.23	0.03	0.47	0.23	0.03	0.47	0.00	0.00	0.00
April 2023	1.12	0.51	1.89	0.17	0.02	0.44	0.96	0.37	1.72
May 2023	0.10	0.01	0.20	0.06	0.01	0.17	0.03	0.00	0.10
June 2023	0.27	0.07	0.55	0.27	0.07	0.55	0.00	0.00	0.00
July 2023	1.06	0.54	1.73	0.46	0.14	0.98	0.60	0.24	1.08
August 2023	1.71	1.07	2.47	1.71	1.07	2.47	0.00	0.00	0.00
September 2023	0.79	0.43	1.13	0.79	0.43	1.13	0.00	0.00	0.00
October 2023	0.53	0.24	0.87	0.53	0.24	0.87	0.00	0.00	0.00
November 2023	0.06	0.01	0.17	0.06	0.01	0.17	0.00	0.00	0.00
January 2024	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00

Table 1-65 Puffin design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	1	9	1	35	<1	1	9	1	35	<1	0	0	0	0	-
April 2022	16	137	52	243	0.368	13	110	35	199	0.39	3	27	3	78	<1
June 2022	0	0	0	0	-	0	0	0	0	-	0	0	0	0	-
July 2022	1,043	9,001	6371	11,888	0.155	814	7,028	4,550	9,911	0.192	229	1,974	1,312	2,745	0.191
August 2022	6	53	17	103	0.459	6	53	17	103	0.459	0	0	0	0	-
September 2022	67	584	353	861	0.215	67	584	353	861	0.215	0	0	0	0	-
October 2022	9	78	26	148	0.408	9	78	26	148	0.408	0	0	0	0	-
March 2023	1	8	1	26	0.998	1	8	1	26	0.998	0	0	0	0	-
April 2023	35	303	139	487	0.313	6	53	9	122	0.582	29	250	96	435	0.355
May 2023	6	53	17	104	0.443	5	44	9	96	0.499	1	9	1	26	0.982
June 2023	19	173	62	311	0.369	15	137	44	248	0.387	4	37	4	106	0.94
July 2023	46	400	227	611	0.244	18	157	61	279	0.367	28	243	105	410	0.325
August 2023	88	759	534	1,016	0.162	88	759	534	1016	0.162	0	0	0	0	-
September 2023	52	448	317	592	0.164	52	448	317	592	0.164	0	0	0	0	-
October 2023	34	296	173	450	0.226	34	296	173	450	0.226	0	0	0	0	-
November 2023	5	43	9	87	0.447	5	43	9	87	0.447	0	0	0	0	-
January 2024	2	17	2	44	0.707	2	17	2	44	0.707	0	0	0	0	-
February 2024	1	8	1	26	0.993	1	8	1	26	0.993	0	0	0	0	-

Table 1-66 Puffin design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.02	0.00	0.09	0.02	0.00	0.09	0.00	0.00	0.00
April 2022	0.33	0.13	0.59	0.27	0.09	0.49	0.07	0.01	0.19
June 2022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
July 2022	22.00	15.57	29.05	17.17	11.12	24.22	4.82	3.21	6.71
August 2022	0.13	0.04	0.25	0.13	0.04	0.25	0.00	0.00	0.00
September 2022	1.43	0.86	2.10	1.43	0.86	2.10	0.00	0.00	0.00
October 2022	0.19	0.06	0.36	0.19	0.06	0.36	0.00	0.00	0.00
March 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
April 2023	0.74	0.34	1.19	0.13	0.02	0.30	0.61	0.23	1.06
May 2023	0.13	0.04	0.25	0.11	0.02	0.23	0.02	0.00	0.06
June 2023	0.42	0.15	0.76	0.33	0.11	0.61	0.09	0.01	0.26
July 2023	0.98	0.55	1.49	0.38	0.15	0.68	0.59	0.26	1.00
August 2023	1.85	1.30	2.48	1.85	1.30	2.48	0.00	0.00	0.00
September 2023	1.09	0.77	1.45	1.09	0.77	1.45	0.00	0.00	0.00
October 2023	0.72	0.42	1.10	0.72	0.42	1.10	0.00	0.00	0.00
November 2023	0.11	0.02	0.21	0.11	0.02	0.21	0.00	0.00	0.00
January 2024	0.04	0.00	0.11	0.04	0.00	0.11	0.00	0.00	0.00
February 2024	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00

1.15 GREAT NORTHERN DIVER

Table 1-67 Great northern diver design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	4	37	4	86	0.579	4	37	4	86	0.579	0	0	0	0	-
April 2022	2	17	2	43	0.717	2	17	2	43	0.717	0	0	0	0	-
January 2023	3	26	3	61	0.578	3	26	3	61	0.578	0	0	0	0	-
February 2023	1	9	1	26	0.994	1	9	1	26	0.994	0	0	0	0	-
March 2023	1	9	1	26	0.962	1	9	1	26	0.962	0	0	0	0	-
May 2023	2	17	2	43	0.739	2	17	2	43	0.739	0	0	0	0	-
November 2023	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-
January 2024	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-
January 2024	2	17	2	44	0.7	2	17	2	44	0.7	0	0	0	0	-

Table 1-68 Great northern diver design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.09	0.01	0.21	0.09	0.01	0.21	0.00	0.00	0.00
April 2022	0.04	0.00	0.11	0.04	0.00	0.11	0.00	0.00	0.00
January 2023	0.06	0.01	0.15	0.06	0.01	0.15	0.00	0.00	0.00
February 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
March 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
May 2023	0.04	0.00	0.11	0.04	0.00	0.11	0.00	0.00	0.00
November 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
January 2024	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
January 2024	0.04	0.00	0.11	0.04	0.00	0.11	0.00	0.00	0.00

1.16 RED-THROATED DIVER

Table 1-69 Red-throated diver design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
June 2022	1	9	1	26	0.963	0	0	0	0	-	1	9	1	26	0.963
February 2024	1	8	1	26	0.977	1	8	1	26	0.977	0	0	0	0	-

Table 1-70 Red-throated diver design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
June 2022	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10
February 2024	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00

Table 1-71 Red-throated diver design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
June 2022	1	8	1	26	0.996	0	0	0	0	-	1	8	1	26	0.996
October 2023	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-
February 2024	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-

Table 1-72 Red-throated diver design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
June 2022	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06
October 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
February 2024	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00

1.17 FULMAR

Table 1-73 Fulmar design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	18	158	54	303	0.415	0	0	0	0	-	18	158	54	303	0.415
April 2022	4	36	9	72	0.505	1	9	1	27	<1	3	27	3	54	0.567
May 2022	4	35	9	70	0.487	1	8	1	26	<1	3	26	3	61	0.55
July 2022	23	201	105	333	0.296	16	140	53	263	0.388	7	62	18	123	0.424
August 2022	4	35	9	70	0.485	1	9	1	26	0.997	3	26	3	52	0.566
September 2022	8	70	17	131	0.407	0	0	0	0	-	8	70	17	131	0.407
October 2022	1	9	1	27	0.99	1	9	1	27	0.99	0	0	0	0	-
November 2022	4	35	9	71	0.517	1	9	1	26	<1	3	26	3	62	0.601
December 2022	18	159	36	347	0.513	0	0	0	0	-	18	159	36	347	0.513
January 2023	1	8	1	26	<1	0	0	0	0	-	1	8	1	26	<1
February 2023	6	53	18	105	0.413	0	0	0	0	-	6	53	18	105	0.413
March 2023	23	203	105	316	0.275	1	9	1	26	0.993	22	195	97	308	0.286
April 2023	7	62	9	142	0.517	0	0	0	0	-	7	62	9	142	0.517
May 2023	7	64	18	117	0.415	0	0	0	0	-	7	64	18	117	0.415
June 2023	1	9	1	27	<1	0	0	0	0	-	1	9	1	27	<1
July 2023	12	107	45	179	0.333	2	18	2	45	0.695	10	89	27	161	0.381
August 2023	4	36	4	88	0.587	0	0	0	0	-	4	36	4	88	0.587
September 2023	2	18	2	44	0.705	0	0	0	0	-	2	18	2	44	0.705
December 2023	10	87	35	142	0.32	1	9	1	35	0.99	9	78	35	133	0.336
January 2024	7	64	9	135	0.512	0	0	0	0	-	7	64	9	135	0.512

Table 1-74 Fulmar design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	1.13	0.39	2.16	0.00	0.00	0.00	1.13	0.39	2.16
April 2022	0.26	0.06	0.51	0.06	0.01	0.19	0.19	0.02	0.39
May 2022	0.25	0.06	0.50	0.06	0.01	0.19	0.19	0.02	0.44
July 2022	1.43	0.75	2.37	1.00	0.38	1.88	0.44	0.13	0.88
August 2022	0.25	0.06	0.50	0.06	0.01	0.19	0.19	0.02	0.37
September 2022	0.50	0.12	0.93	0.00	0.00	0.00	0.50	0.12	0.93
October 2022	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00
November 2022	0.25	0.06	0.51	0.06	0.01	0.19	0.19	0.02	0.44
December 2022	1.13	0.26	2.47	0.00	0.00	0.00	1.13	0.26	2.47
January 2023	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19
February 2023	0.38	0.13	0.75	0.00	0.00	0.00	0.38	0.13	0.75
March 2023	1.45	0.75	2.25	0.06	0.01	0.19	1.39	0.69	2.20
April 2023	0.44	0.06	1.01	0.00	0.00	0.00	0.44	0.06	1.01
May 2023	0.46	0.13	0.83	0.00	0.00	0.00	0.46	0.13	0.83
June 2023	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19
July 2023	0.76	0.32	1.28	0.13	0.01	0.32	0.63	0.19	1.15
August 2023	0.26	0.03	0.63	0.00	0.00	0.00	0.26	0.03	0.63
September 2023	0.13	0.01	0.31	0.00	0.00	0.00	0.13	0.01	0.31
December 2023	0.62	0.25	1.01	0.06	0.01	0.25	0.56	0.25	0.95
January 2024	0.46	0.06	0.96	0.00	0.00	0.00	0.46	0.06	0.96

Table 1-75 Fulmar design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	30	265	141	432	0.282	0	0	0	0	-	30	265	141	432	0.282
April 2022	14	123	53	204	0.31	4	35	4	80	0.631	10	88	35	159	0.346
May 2022	4	35	9	70	0.507	1	8	1	26	<1	3	27	3	61	0.57
June 2022	2	18	2	52	0.97	0	0	0	0	-	2	18	2	52	0.97
July 2022	46	405	262	569	0.195	27	238	114	376	0.279	19	168	96	245	0.241
August 2022	11	96	35	174	0.383	5	44	5	113	0.694	6	52	17	96	0.398
September 2022	11	96	44	166	0.349	0	0	0	0	-	11	96	44	166	0.349
October 2022	1	9	1	35	<1	1	9	1	35	<1	0	0	0	0	-
November 2022	6	53	18	97	0.394	2	17	2	44	0.71	4	36	9	70	0.492
December 2022	32	282	124	496	0.348	0	0	0	0	-	32	282	124	496	0.348
January 2023	1	8	1	26	<1	0	0	0	0	-	1	8	1	26	<1
February 2023	15	134	52	244	0.386	0	0	0	0	-	15	134	52	244	0.386
March 2023	47	407	210	648	0.278	2	18	2	44	0.718	45	388	193	622	0.289
April 2023	60	538	168	1133	0.463	0	0	0	0	-	60	538	168	1133	0.463
May 2023	10	90	35	150	0.342	0	0	0	0	-	10	90	35	150	0.342
June 2023	2	18	2	45	0.729	0	0	0	0	-	2	18	2	45	0.729
July 2023	17	150	71	231	0.272	4	36	9	71	0.494	13	114	53	196	0.322
August 2023	7	61	9	123	0.463	0	0	0	0	-	7	61	9	123	0.463
September 2023	4	35	9	70	0.493	0	0	0	0	-	4	35	9	70	0.493
December 2023	22	193	106	299	0.258	2	18	2	53	0.719	20	175	88	273	0.272
January 2024	12	105	36	188	0.363	1	9	1	27	<1	11	97	36	179	0.382

Table 1-76 Fulmar design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	1.01	0.54	1.65	0.00	0.00	0.00	1.01	0.54	1.65
April 2022	0.47	0.20	0.78	0.13	0.02	0.30	0.34	0.13	0.61
May 2022	0.13	0.03	0.27	0.03	0.00	0.10	0.10	0.01	0.23
June 2022	0.07	0.01	0.20	0.00	0.00	0.00	0.07	0.01	0.20
July 2022	1.54	1.00	2.17	0.91	0.43	1.43	0.64	0.37	0.93
August 2022	0.37	0.13	0.66	0.17	0.02	0.43	0.20	0.06	0.37
September 2022	0.37	0.17	0.63	0.00	0.00	0.00	0.37	0.17	0.63
October 2022	0.03	0.00	0.13	0.03	0.00	0.13	0.00	0.00	0.00
November 2022	0.20	0.07	0.37	0.06	0.01	0.17	0.14	0.03	0.27
December 2022	1.07	0.47	1.89	0.00	0.00	0.00	1.07	0.47	1.89
January 2023	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10
February 2023	0.51	0.20	0.93	0.00	0.00	0.00	0.51	0.20	0.93
March 2023	1.55	0.80	2.47	0.07	0.01	0.17	1.48	0.74	2.37
April 2023	2.05	0.64	4.32	0.00	0.00	0.00	2.05	0.64	4.32
May 2023	0.34	0.13	0.57	0.00	0.00	0.00	0.34	0.13	0.57
June 2023	0.07	0.01	0.17	0.00	0.00	0.00	0.07	0.01	0.17
July 2023	0.57	0.27	0.88	0.14	0.03	0.27	0.43	0.20	0.75
August 2023	0.23	0.03	0.47	0.00	0.00	0.00	0.23	0.03	0.47
September 2023	0.13	0.03	0.27	0.00	0.00	0.00	0.13	0.03	0.27
December 2023	0.74	0.40	1.14	0.07	0.01	0.20	0.67	0.34	1.04
January 2024	0.40	0.14	0.72	0.03	0.00	0.10	0.37	0.14	0.68

Table 1-77 Fulmar design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	71	622	320	1,064	0.321	5	44	9	95	0.523	66	578	277	1021	0.342
April 2022	30	258	139	407	0.283	8	66	8	156	0.602	22	192	87	320	0.306
May 2022	8	69	26	130	0.394	1	9	1	26	0.99	7	60	17	121	0.425
June 2022	2	17	2	51	<1	0	0	0	0	-	2	17	2	51	<1
July 2022	61	526	363	708	0.164	33	283	155	440	0.25	28	243	155	345	0.203
August 2022	17	147	69	241	0.302	5	44	5	112	0.692	12	103	43	172	0.311
September 2022	20	171	86	275	0.273	1	9	1	26	0.956	19	162	77	258	0.283
October 2022	2	17	2	44	0.704	1	9	1	26	<1	1	9	1	26	0.995
November 2022	6	53	17	104	0.414	2	17	2	43	0.721	4	36	9	78	0.519
December 2022	41	355	191	574	0.278	0	0	0	0	-	41	355	191	574	0.278
January 2023	2	17	2	43	0.73	0	0	0	0	-	2	17	2	43	0.73
February 2023	29	248	137	385	0.248	0	0	0	0	-	29	248	137	385	0.248
March 2023	70	601	378	851	0.205	9	79	9	172	0.502	61	523	318	757	0.223
April 2023	85	748	287	1374	0.379	1	9	1	26	0.958	84	739	278	1374	0.383
May 2023	19	165	87	252	0.25	2	17	2	52	<1	17	148	78	226	0.258
June 2023	4	36	9	71	0.483	0	0	0	0	-	4	36	9	71	0.483
July 2023	24	205	113	305	0.239	5	43	9	79	0.45	19	162	79	253	0.279
August 2023	8	68	17	138	0.445	0	0	0	0	NA	8	68	17	138	0.445
September 2023	13	111	26	240	0.503	1	9	1	26	0.957	12	103	17	232	0.545
December 2023	41	353	216	502	0.208	2	17	2	43	0.701	39	336	199	485	0.218
January 2024	18	160	79	246	0.274	2	18	2	44	0.701	16	142	70	228	0.293
February 2024	2	17	2	51	0.997	0	0	0	0	-	2	17	2	51	0.997

Table 1-78 Fulmar design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	1.52	0.78	2.60	0.11	0.02	0.23	1.41	0.68	2.50
April 2022	0.63	0.34	0.99	0.16	0.02	0.38	0.47	0.21	0.78
May 2022	0.17	0.06	0.32	0.02	0.00	0.06	0.15	0.04	0.30
June 2022	0.04	0.00	0.12	0.00	0.00	0.00	0.04	0.00	0.12
July 2022	1.29	0.89	1.73	0.69	0.38	1.08	0.59	0.38	0.84
August 2022	0.36	0.17	0.59	0.11	0.01	0.27	0.25	0.11	0.42
September 2022	0.42	0.21	0.67	0.02	0.00	0.06	0.40	0.19	0.63
October 2022	0.04	0.00	0.11	0.02	0.00	0.06	0.02	0.00	0.06
November 2022	0.13	0.04	0.25	0.04	0.00	0.11	0.09	0.02	0.19
December 2022	0.87	0.47	1.40	0.00	0.00	0.00	0.87	0.47	1.40
January 2023	0.04	0.00	0.11	0.00	0.00	0.00	0.04	0.00	0.11
February 2023	0.61	0.33	0.94	0.00	0.00	0.00	0.61	0.33	0.94
March 2023	1.47	0.92	2.08	0.19	0.02	0.42	1.28	0.78	1.85
April 2023	1.83	0.70	3.36	0.02	0.00	0.06	1.81	0.68	3.36
May 2023	0.40	0.21	0.62	0.04	0.00	0.13	0.36	0.19	0.55
June 2023	0.09	0.02	0.17	0.00	0.00	0.00	0.09	0.02	0.17
July 2023	0.50	0.28	0.75	0.11	0.02	0.19	0.40	0.19	0.62
August 2023	0.17	0.04	0.34	0.00	0.00	0.00	0.17	0.04	0.34
September 2023	0.27	0.06	0.59	0.02	0.00	0.06	0.25	0.04	0.57
December 2023	0.86	0.53	1.23	0.04	0.00	0.11	0.82	0.49	1.19
January 2024	0.39	0.19	0.60	0.04	0.00	0.11	0.35	0.17	0.56
February 2024	0.04	0.00	0.12	0.00	0.00	0.00	0.04	0.00	0.12

1.18 MANX SHEARWATER

Table 1-79 Manx shearwater design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
April 2022	1	9	1	27	0.965	0	0	0	0	-	1	9	1	27	0.965
July 2022	11	96	26	184	0.419	2	16	2	53	<1	9	79	18	158	0.457
July 2023	2	18	2	45	0.704	1	9	1	27	0.991	1	9	1	27	0.992

Table 1-80 Manx shearwater design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
April 2022	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19
July 2022	0.68	0.19	1.31	0.11	0.01	0.38	0.56	0.13	1.13
July 2023	0.13	0.01	0.32	0.06	0.01	0.19	0.06	0.01	0.19

Table 1-81 Manx shearwater design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
April 2022	2	18	2	44	0.707	0	0	0	0	-	2	18	2	44	0.707
July 2022	102	884	192	1828	0.471	56	484	56	1321	0.736	46	400	61	953	0.588
July 2023	5	44	9	89	0.46	1	9	1	27	0.989	4	35	9	71	0.512

Table 1-82 Manx shearwater design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
April 2022	0.07	0.01	0.17	0.00	0.00	0.00	0.07	0.01	0.17
July 2022	3.37	0.73	6.97	1.84	0.21	5.03	1.52	0.23	3.63
July 2023	0.17	0.03	0.34	0.03	0.00	0.10	0.13	0.03	0.27

Table 1-83 Manx shearwater design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
April 2022	2	18	2	43	0.709	0	0	0	0	-	2	18	2	43	0.709
July 2022	344	2965	889	5560	0.414	208	1805	208	3876	0.55	136	1160	164	2780	0.616
July 2023	5	44	9	87	0.454	1	9	1	35	<1	4	35	9	70	0.506

Table 1-84 Manx shearwater design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
April 2022	0.04	0.00	0.11	0.00	0.00	0.00	0.04	0.00	0.11
July 2022	7.25	2.17	13.59	4.41	0.51	9.47	2.83	0.40	6.79
July 2023	0.11	0.02	0.21	0.02	0.00	0.09	0.09	0.02	0.17

1.19 SOOTY SHEARWATER

Table 1-85 Sooty shearwater design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
September 2022	1	9	1	26	<1	0	0	0	0	-	1	9	1	26	<1
August 2023	1	9	1	26	0.99	0	0	0	0	-	1	9	1	26	0.99

Table 1-86 Sooty shearwater design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
September 2022	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19
August 2023	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19

Table 1-87 Sooty shearwater design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
September 2022	1	9	1	26	0.978	0	0	0	0	-	1	9	1	26	0.978
August 2023	1	9	1	26	<1	0	0	0	0	-	1	9	1	26	<1
September 2023	1	9	1	26	0.981	0	0	0	0	-	1	9	1	26	0.981

Table 1-88 Sooty shearwater design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
September 2022	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10
August 2023	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10
September 2023	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10

Table 1-89 Sooty shearwater design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
September 2022	1	9	1	26	<1	0	0	0	0	-	1	9	1	26	<1
August 2023	1	9	1	26	0.982	0	0	0	0	-	1	9	1	26	0.982
September 2023	1	9	1	26	0.964	0	0	0	0	-	1	9	1	26	0.964

Table 1-90 Sooty shearwater design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
September 2022	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06
August 2023	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06
September 2023	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06

1.20 GANNET

Table 1-91 Gannet design-based abundance estimates for Turbine Area (unapportioned)

Survey	All behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	1	8	1	27	<1	0	0	0	0	-	1	8	1	27	<1
April 2022	18	161	81	242	0.249	9	81	27	143	0.373	9	80	36	134	0.326
May 2022	1	9	1	26	0.955	0	0	0	0	-	1	9	1	26	0.955
June 2022	10	87	26	155	0.368	4	34	9	69	0.484	6	53	9	112	0.516
July 2022	13	114	35	219	0.404	1	9	1	35	<1	12	106	26	210	0.427
August 2022	13	112	13	287	0.702	0	0	0	0	-	13	112	13	287	0.702
September 2022	6	51	9	105	0.458	2	17	2	44	0.691	4	34	4	78	0.597
October 2022	29	259	134	409	0.274	9	79	27	160	0.426	20	180	80	320	0.35
November 2022	1	9	1	26	0.945	0	0	0	0	-	1	9	1	26	0.945
January 2023	3	27	3	62	0.566	0	0	0	0	-	3	27	3	62	0.566
March 2023	1	9	1	35	0.948	0	0	0	0	-	1	9	1	35	0.948
April 2023	3	27	3	62	0.572	1	9	1	27	0.967	2	17	2	44	0.713
May 2023	8	73	27	126	0.354	3	29	3	63	0.57	5	45	9	90	0.449
June 2023	6	54	18	100	0.395	1	9	1	27	0.951	5	45	9	82	0.436
July 2023	14	123	45	223	0.375	2	18	2	54	0.994	12	105	36	197	0.402
August 2023	3	26	3	62	0.586	0	0	0	0	-	3	26	3	62	0.586
September 2023	2	17	2	44	0.726	0	0	0	0	-	2	17	2	44	0.726
December 2023	1	8	1	27	<1	0	0	0	0	-	1	8	1	27	<1

Table 1-92 Gannet design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19
April 2022	1.15	0.58	1.73	0.58	0.19	1.02	0.57	0.26	0.96
May 2022	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19
June 2022	0.62	0.19	1.11	0.24	0.06	0.49	0.38	0.06	0.80
July 2022	0.81	0.25	1.56	0.06	0.01	0.25	0.76	0.19	1.50
August 2022	0.80	0.09	2.05	0.00	0.00	0.00	0.80	0.09	2.05
September 2022	0.36	0.06	0.75	0.12	0.01	0.31	0.24	0.03	0.56
October 2022	1.85	0.96	2.92	0.56	0.19	1.14	1.28	0.57	2.28
November 2022	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19
January 2023	0.19	0.02	0.44	0.00	0.00	0.00	0.19	0.02	0.44
March 2023	0.06	0.01	0.25	0.00	0.00	0.00	0.06	0.01	0.25
April 2023	0.19	0.02	0.44	0.06	0.01	0.19	0.12	0.01	0.31
May 2023	0.52	0.19	0.90	0.21	0.02	0.45	0.32	0.06	0.64
June 2023	0.39	0.13	0.71	0.06	0.01	0.19	0.32	0.06	0.58
July 2023	0.88	0.32	1.59	0.13	0.01	0.39	0.75	0.26	1.40
August 2023	0.19	0.02	0.44	0.00	0.00	0.00	0.19	0.02	0.44
September 2023	0.12	0.01	0.31	0.00	0.00	0.00	0.12	0.01	0.31
December 2023	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19

Table 1-93 Gannet design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	2	18	2	44	0.676	0	0	0	0	-	2	18	2	44	0.676
April 2022	31	273	168	381	0.197	16	141	71	230	0.28	15	131	62	213	0.28

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
May 2022	3	26	3	61	0.583	0	0	0	0	-	3	26	3	61	0.583
June 2022	13	114	52	190	0.32	5	44	9	86	0.434	8	70	17	138	0.442
July 2022	30	262	149	394	0.239	6	53	17	96	0.39	24	209	105	341	0.286
August 2022	82	694	192	1403	0.449	0	0	0	0	-	82	694	192	1403	0.449
September 2022	12	106	44	183	0.331	4	35	9	70	0.495	8	71	17	140	0.431
October 2022	37	328	186	495	0.233	11	98	35	177	0.379	26	230	115	380	0.298
November 2022	2	18	2	44	0.699	1	9	1	26	0.991	1	9	1	26	0.98
January 2023	4	35	9	70	0.497	0	0	0	0	-	4	35	9	70	0.497
March 2023	1	9	1	26	0.97	0	0	0	0	-	1	9	1	26	0.97
April 2023	13	114	53	195	0.326	4	34	4	71	0.501	9	80	27	150	0.404
May 2023	10	90	44	150	0.314	3	27	3	62	0.563	7	64	27	115	0.379
June 2023	23	210	108	316	0.258	5	45	9	90	0.448	18	165	72	271	0.299
July 2023	22	197	89	338	0.328	6	53	6	142	0.764	16	144	53	249	0.351
August 2023	4	36	9	70	0.475	0	0	0	0	-	4	36	9	70	0.475
September 2023	9	78	26	140	0.354	2	17	2	44	0.713	7	61	17	114	0.41
December 2023	1	9	1	26	0.952	0	0	0	0	-	1	9	1	26	0.952
January 2024	1	9	1	27	1	0	0	0	0	-	1	9	1	27	1

Table 1-94 Gannet design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.07	0.01	0.17	0.00	0.00	0.00	0.07	0.01	0.17
April 2022	1.04	0.64	1.45	0.54	0.27	0.88	0.50	0.24	0.81
May 2022	0.10	0.01	0.23	0.00	0.00	0.00	0.10	0.01	0.23
June 2022	0.43	0.20	0.72	0.17	0.03	0.33	0.27	0.06	0.53

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
July 2022	1.00	0.57	1.50	0.20	0.06	0.37	0.80	0.40	1.30
August 2022	2.64	0.73	5.35	0.00	0.00	0.00	2.64	0.73	5.35
September 2022	0.40	0.17	0.70	0.13	0.03	0.27	0.27	0.06	0.53
October 2022	1.25	0.71	1.89	0.37	0.13	0.67	0.88	0.44	1.45
November 2022	0.07	0.01	0.17	0.03	0.00	0.10	0.03	0.00	0.10
January 2023	0.13	0.03	0.27	0.00	0.00	0.00	0.13	0.03	0.27
March 2023	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10
April 2023	0.43	0.20	0.74	0.13	0.02	0.27	0.30	0.10	0.57
May 2023	0.34	0.17	0.57	0.10	0.01	0.24	0.24	0.10	0.44
June 2023	0.80	0.41	1.20	0.17	0.03	0.34	0.63	0.27	1.03
July 2023	0.75	0.34	1.29	0.20	0.02	0.54	0.55	0.20	0.95
August 2023	0.14	0.03	0.27	0.00	0.00	0.00	0.14	0.03	0.27
September 2023	0.30	0.10	0.53	0.06	0.01	0.17	0.23	0.06	0.43
December 2023	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10
January 2024	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10

Table 1-95 Gannet design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	3	25	3	61	0.572	0	0	0	0	-	3	25	3	61	0.572
April 2022	55	476	329	624	0.16	32	277	173	407	0.219	23	200	121	286	0.22
May 2022	5	43	9	78	0.433	1	9	1	26	<1	4	34	9	69	0.481
June 2022	19	163	94	247	0.256	7	60	26	111	0.373	12	104	43	179	0.35
July 2022	48	411	276	570	0.185	14	121	60	190	0.275	34	290	173	440	0.239
August 2022	99	858	319	1,645	0.384	0	0	0	0	-	99	858	319	1,645	0.384

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
September 2022	20	173	95	258	0.244	4	34	9	69	0.501	16	139	69	215	0.274
October 2022	40	350	200	522	0.233	13	113	44	200	0.351	27	236	113	383	0.303
November 2022	4	35	9	78	0.499	1	9	1	26	<1	3	26	3	60	0.573
January 2023	7	59	26	112	0.388	0	0	0	0	-	7	59	26	112	0.388
February 2023	1	9	1	26	0.969	0	0	0	0	-	1	9	1	26	0.969
March 2023	7	58	7	155	0.721	5	42	5	129	0.967	2	16	2	43	0.742
April 2023	17	149	78	226	0.271	6	53	17	96	0.389	11	96	35	165	0.342
May 2023	15	131	69	200	0.252	6	52	17	96	0.41	9	79	35	130	0.326
June 2023	27	242	142	355	0.222	5	46	9	89	0.422	22	197	106	302	0.252
July 2023	26	226	113	358	0.284	7	61	7	148	0.645	19	165	79	270	0.305
August 2023	19	163	52	310	0.411	5	43	5	129	<1	14	121	34	232	0.435
September 2023	37	320	137	609	0.391	6	52	17	103	0.414	31	267	86	558	0.463
October 2023	4	35	4	104	0.806	0	0	0	0	-	4	35	4	104	0.806
November 2023	1	9	1	26	0.956	0	0	0	0	-	1	9	1	26	0.956
December 2023	1	9	1	26	0.989	0	0	0	0	-	1	9	1	26	0.989
January 2024	1	9	1	26	0.961	0	0	0	0	-	1	9	1	26	0.961
February 2024	1	9	1	26	0.97	0	0	0	0	-	1	9	1	26	0.97

Table 1-96 Gannet design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.06	0.01	0.15	0.00	0.00	0.00	0.06	0.01	0.15
April 2022	1.16	0.80	1.52	0.68	0.42	0.99	0.49	0.30	0.70
May 2022	0.11	0.02	0.19	0.02	0.00	0.06	0.08	0.02	0.17
June 2022	0.40	0.23	0.60	0.15	0.06	0.27	0.25	0.11	0.44
July 2022	1.00	0.67	1.39	0.30	0.15	0.46	0.71	0.42	1.08

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
August 2022	2.10	0.78	4.02	0.00	0.00	0.00	2.10	0.78	4.02
September 2022	0.42	0.23	0.63	0.08	0.02	0.17	0.34	0.17	0.53
October 2022	0.86	0.49	1.28	0.28	0.11	0.49	0.58	0.28	0.94
November 2022	0.09	0.02	0.19	0.02	0.00	0.06	0.06	0.01	0.15
January 2023	0.14	0.06	0.27	0.00	0.00	0.00	0.14	0.06	0.27
February 2023	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06
March 2023	0.14	0.02	0.38	0.10	0.01	0.32	0.04	0.00	0.11
April 2023	0.36	0.19	0.55	0.13	0.04	0.23	0.23	0.09	0.40
May 2023	0.32	0.17	0.49	0.13	0.04	0.23	0.19	0.09	0.32
June 2023	0.59	0.35	0.87	0.11	0.02	0.22	0.48	0.26	0.74
July 2023	0.55	0.28	0.87	0.15	0.02	0.36	0.40	0.19	0.66
August 2023	0.40	0.13	0.76	0.11	0.01	0.32	0.30	0.08	0.57
September 2023	0.78	0.33	1.49	0.13	0.04	0.25	0.65	0.21	1.36
October 2023	0.09	0.01	0.25	0.00	0.00	0.00	0.09	0.01	0.25
November 2023	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06
December 2023	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06
January 2024	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06
February 2024	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06

1.21 AUK SPECIES (UNIDENTIFIED)

Table 1-97 Auks (unidentified) design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
April 2022	3	28	3	72	0.728	3	28	3	72	0.728	0	0	0	0	-
July 2022	2	18	2	53	0.739	2	18	2	53	0.739	0	0	0	0	-
September 2022	21	183	87	296	0.282	21	183	87	296	0.282	0	0	0	0	-
September 2023	3	26	3	70	0.729	3	26	3	70	0.729	0	0	0	0	-
October 2023	3	26	3	62	0.578	3	26	3	62	0.578	0	0	0	0	-

Table 1-98 Auks (unidentified) design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
April 2022	0.20	0.02	0.51	0.20	0.02	0.51	0.00	0.00	0.00
July 2022	0.13	0.01	0.38	0.13	0.01	0.38	0.00	0.00	0.00
September 2022	1.31	0.62	2.11	1.31	0.62	2.11	0.00	0.00	0.00
September 2023	0.19	0.02	0.50	0.19	0.02	0.50	0.00	0.00	0.00
October 2023	0.19	0.02	0.44	0.19	0.02	0.44	0.00	0.00	0.00

Table 1-99 Auks (unidentified) design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	2	18	2	44	0.658	2	18	2	44	0.658	0	0	0	0	-
April 2022	4	36	4	89	0.606	4	36	4	89	0.606	0	0	0	0	-
July 2022	4	35	4	87	0.632	2	17	2	44	0.713	0	0	0	0	-
August 2022	1	8	1	26	0.994	1	8	1	26	0.994	0	0	0	0	-
September 2022	29	257	148	384	0.235	29	257	148	384	0.235	0	0	0	0	-
February 2023	1	9	1	26	0.989	1	9	1	26	0.989	0	0	0	0	-
April 2023	1	9	1	27	<1	1	9	1	27	<1	0	0	0	0	-
September 2023	5	43	9	96	0.539	5	43	9	96	0.539	0	0	0	0	-
October 2023	3	27	3	62	0.548	3	27	3	62	0.548	0	0	0	0	-
January 2024	4	36	4	81	0.605	4	36	4	81	0.605	0	0	0	0	-
February 2024	4	34	9	70	0.5	4	34	9	70	0.5	0	0	0	0	-

Table 1-100 Auks (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.07	0.01	0.17	0.07	0.01	0.17	0.00	0.00	0.00
April 2022	0.14	0.02	0.34	0.14	0.02	0.34	0.00	0.00	0.00
July 2022	0.13	0.02	0.33	0.06	0.01	0.17	0.00	0.00	0.00
August 2022	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
September 2022	0.98	0.56	1.46	0.98	0.56	1.46	0.00	0.00	0.00
February 2023	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
April 2023	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
September 2023	0.16	0.03	0.37	0.16	0.03	0.37	0.00	0.00	0.00
October 2023	0.10	0.01	0.24	0.10	0.01	0.24	0.00	0.00	0.00

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
January 2024	0.14	0.02	0.31	0.14	0.02	0.31	0.00	0.00	0.00
February 2024	0.13	0.03	0.27	0.13	0.03	0.27	0.00	0.00	0.00

Table 1-101 Auks (unidentified) design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	9	77	17	164	0.52	9	77	17	164	0.52	0	0	0	0	-
April 2022	6	52	9	104	0.448	6	52	9	104	0.448	0	0	0	0	-
July 2022	6	52	9	104	0.465	4	35	9	69	0.495	0	0	0	0	-
August 2022	2	17	2	43	0.729	2	17	2	43	0.729	0	0	0	0	-
September 2022	57	489	336	637	0.162	57	489	336	637	0.162	0	0	0	0	-
October 2022	2	18	2	44	0.692	2	18	2	44	0.692	0	0	0	0	-
February 2023	1	9	1	26	0.949	1	9	1	26	0.949	0	0	0	0	-
April 2023	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-
May 2023	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-
June 2023	2	19	2	53	0.941	2	19	2	53	0.941	0	0	0	0	-
August 2023	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-
September 2023	11	94	34	172	0.362	11	94	34	172	0.362	0	0	0	0	-
October 2023	3	26	3	52	0.575	3	26	3	52	0.575	0	0	0	0	-
January 2024	4	35	4	88	0.607	4	35	4	88	0.607	0	0	0	0	-
February 2024	8	68	17	128	0.407	8	68	17	128	0.407	0	0	0	0	-

Table 1-102 Auks (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.19	0.04	0.40	0.19	0.04	0.40	0.00	0.00	0.00
April 2022	0.13	0.02	0.25	0.13	0.02	0.25	0.00	0.00	0.00
July 2022	0.13	0.02	0.25	0.09	0.02	0.17	0.00	0.00	0.00
August 2022	0.04	0.00	0.11	0.04	0.00	0.11	0.00	0.00	0.00
September 2022	1.19	0.82	1.56	1.19	0.82	1.56	0.00	0.00	0.00
October 2022	0.04	0.00	0.11	0.04	0.00	0.11	0.00	0.00	0.00
February 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
April 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
May 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
June 2023	0.05	0.00	0.13	0.05	0.00	0.13	0.00	0.00	0.00
August 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
September 2023	0.23	0.08	0.42	0.23	0.08	0.42	0.00	0.00	0.00
October 2023	0.06	0.01	0.13	0.06	0.01	0.13	0.00	0.00	0.00
January 2024	0.09	0.01	0.22	0.09	0.01	0.22	0.00	0.00	0.00
February 2024	0.17	0.04	0.31	0.17	0.04	0.31	0.00	0.00	0.00

1.22 GUILLEMOT/RAZORBILL SPECIES (UNIDENTIFIED)

Table 1-103 Guillemot/Razorbill (unidentified) design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	52	470	223	785	0.309	50	452	205	767	0.32	2	18	2	45	0.697
April 2022	5	45	5	108	0.61	5	45	5	108	0.61	0	0	0	0	-
July 2022	7	61	7	166	0.746	2	18	2	44	0.706	5	43	5	131	<1
August 2022	2	18	2	44	0.681	2	18	2	44	0.681	0	0	0	0	-
September 2022	78	688	453	959	0.181	78	688	453	959	0.181	0	0	0	0	-
October 2022	3	27	3	62	0.583	3	27	3	62	0.583	0	0	0	0	-
December 2022	1	9	1	27	<1	1	9	1	27	<1	0	0	0	0	-
February 2023	2	17	2	44	0.729	2	17	2	44	0.729	0	0	0	0	-
March 2023	1	9	1	26	0.99	1	9	1	26	0.99	0	0	0	0	-
April 2023	3	26	3	62	0.744	2	16	2	53	<1	1	9	1	27	0.931
May 2023	3	27	3	63	0.601	3	27	3	63	0.601	0	0	0	0	-
July 2023	2	17	2	54	<1	2	17	2	54	<1	0	0	0	0	-
August 2023	2	17	2	44	0.711	2	17	2	44	0.711	0	0	0	0	-
September 2023	5	44	9	88	0.438	5	44	9	88	0.438	0	0	0	0	-
October 2023	4	35	4	79	0.591	4	35	4	79	0.591	0	0	0	0	-
December 2023	2	18	2	44	0.693	1	9	1	27	0.975	1	9	1	27	0.953
January 2024	4	37	4	90	0.585	4	37	4	90	0.585	0	0	0	0	-
February 2024	7	61	17	122	0.426	7	61	17	122	0.426	0	0	0	0	-

Table 1-104 Guillemot/Razorbill (unidentified) design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	3.35	1.59	5.60	3.22	1.46	5.47	0.13	0.01	0.32
April 2022	0.32	0.04	0.77	0.32	0.04	0.77	0.00	0.00	0.00
July 2022	0.44	0.05	1.18	0.13	0.01	0.31	0.31	0.04	0.93
August 2022	0.13	0.01	0.31	0.13	0.01	0.31	0.00	0.00	0.00
September 2022	4.91	3.23	6.84	4.91	3.23	6.84	0.00	0.00	0.00
October 2022	0.19	0.02	0.44	0.19	0.02	0.44	0.00	0.00	0.00
December 2022	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00
February 2023	0.12	0.01	0.31	0.12	0.01	0.31	0.00	0.00	0.00
March 2023	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00
April 2023	0.19	0.02	0.44	0.11	0.01	0.38	0.06	0.01	0.19
May 2023	0.19	0.02	0.45	0.19	0.02	0.45	0.00	0.00	0.00
July 2023	0.12	0.01	0.39	0.12	0.01	0.39	0.00	0.00	0.00
August 2023	0.12	0.01	0.31	0.12	0.01	0.31	0.00	0.00	0.00
September 2023	0.31	0.06	0.63	0.31	0.06	0.63	0.00	0.00	0.00
October 2023	0.25	0.03	0.56	0.25	0.03	0.56	0.00	0.00	0.00
December 2023	0.13	0.01	0.31	0.06	0.01	0.19	0.06	0.01	0.19
January 2024	0.26	0.03	0.64	0.26	0.03	0.64	0.00	0.00	0.00
February 2024	0.44	0.12	0.87	0.44	0.12	0.87	0.00	0.00	0.00

Table 1-105 Guillemot/Razorbill (unidentified) design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	86	768	485	1,147	0.223	80	716	432	1,094	0.238	6	52	9	106	0.461
April 2022	8	71	18	142	0.465	8	71	18	142	0.465	0	0	0	0	-

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
July 2022	9	82	9	192	0.582	4	36	9	79	0.491	5	46	5	131	0.972
August 2022	6	54	9	105	0.451	6	54	9	105	0.451	0	0	0	0	-
September 2022	106	918	655	1204	0.153	104	901	628	1187	0.154	2	17	2	52	<1
October 2022	4	36	9	80	0.496	4	36	9	80	0.496	0	0	0	0	-
November 2022	1	9	1	35	0.993	1	9	1	35	0.993	0	0	0	0	-
December 2022	1	9	1	35	<1	1	9	1	35	<1	0	0	0	0	-
February 2023	3	26	3	61	0.564	3	26	3	61	0.564	0	0	0	0	-
March 2023	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-
April 2023	7	61	18	115	0.436	5	43	9	97	0.54	2	17	2	44	0.755
May 2023	3	27	3	62	0.595	3	27	3	62	0.595	0	0	0	0	-
June 2023	1	9	1	27	<1	1	9	1	27	<1	0	0	0	0	-
July 2023	2	18	2	53	0.943	2	18	2	53	0.943	0	0	0	0	-
August 2023	7	62	18	114	0.408	7	62	18	114	0.408	0	0	0	0	-
September 2023	13	113	44	192	0.341	13	113	44	192	0.341	0	0	0	0	-
October 2023	5	43	9	97	0.528	5	43	9	97	0.528	0	0	0	0	-
December 2023	4	37	9	88	0.593	3	28	3	79	0.716	1	9	1	26	<1
January 2024	7	63	18	125	0.456	7	63	18	125	0.456	0	0	0	0	-
February 2024	13	112	52	182	0.317	13	112	52	182	0.317	0	0	0	0	-

Table 1-106 Guillemot/Razorbill (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	2.93	1.85	4.37	2.73	1.65	4.17	0.20	0.03	0.40
April 2022	0.27	0.07	0.54	0.27	0.07	0.54	0.00	0.00	0.00
July 2022	0.31	0.03	0.73	0.14	0.03	0.30	0.18	0.02	0.50
August 2022	0.21	0.03	0.40	0.21	0.03	0.40	0.00	0.00	0.00
September 2022	3.50	2.50	4.59	3.43	2.39	4.52	0.06	0.01	0.20
October 2022	0.14	0.03	0.30	0.14	0.03	0.30	0.00	0.00	0.00
November 2022	0.03	0.00	0.13	0.03	0.00	0.13	0.00	0.00	0.00
December 2022	0.03	0.00	0.13	0.03	0.00	0.13	0.00	0.00	0.00
February 2023	0.10	0.01	0.23	0.10	0.01	0.23	0.00	0.00	0.00
March 2023	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
April 2023	0.23	0.07	0.44	0.16	0.03	0.37	0.06	0.01	0.17
May 2023	0.10	0.01	0.24	0.10	0.01	0.24	0.00	0.00	0.00
June 2023	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
July 2023	0.07	0.01	0.20	0.07	0.01	0.20	0.00	0.00	0.00
August 2023	0.24	0.07	0.43	0.24	0.07	0.43	0.00	0.00	0.00
September 2023	0.43	0.17	0.73	0.43	0.17	0.73	0.00	0.00	0.00
October 2023	0.16	0.03	0.37	0.16	0.03	0.37	0.00	0.00	0.00
December 2023	0.14	0.03	0.34	0.11	0.01	0.30	0.03	0.00	0.10
January 2024	0.24	0.07	0.48	0.24	0.07	0.48	0.00	0.00	0.00
February 2024	0.43	0.20	0.69	0.43	0.20	0.69	0.00	0.00	0.00

Table 1-107 Guillemot/Razorbill (unidentified) design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	106	907	571	1,280	0.21	100	853	502	1,228	0.22	6	53	9	104	0.469
April 2022	20	174	78	277	0.292	18	156	69	260	0.306	2	17	2	52	0.994
July 2022	13	112	35	224	0.464	8	69	17	138	0.438	5	43	5	129	<1
August 2022	21	181	86	310	0.313	21	181	86	310	0.313	0	0	0	0	-
September 2022	145	1240	947	1558	0.125	143	1222	929	1532	0.126	2	18	2	52	0.947
October 2022	6	52	17	96	0.383	6	52	17	96	0.383	0	0	0	0	-
November 2022	3	27	3	60	0.592	3	27	3	60	0.592	0	0	0	0	-
December 2022	2	18	2	43	0.703	2	18	2	43	0.703	0	0	0	0	-
January 2023	5	43	9	86	0.461	4	34	9	78	0.516	1	8	1	26	<1
February 2023	4	35	9	77	0.499	4	35	9	77	0.499	0	0	0	0	-
March 2023	3	26	3	60	0.576	3	26	3	60	0.576	0	0	0	0	-
April 2023	9	78	26	139	0.362	7	60	17	113	0.427	2	18	2	43	0.692
May 2023	4	34	9	69	0.491	4	34	9	69	0.491	0	0	0	0	-
June 2023	1	9	1	27	0.994	1	9	1	27	0.994	0	0	0	0	-
July 2023	4	34	4	87	0.708	4	34	4	87	0.708	0	0	0	0	-
August 2023	13	110	43	189	0.314	13	110	43	189	0.314	0	0	0	0	-
September 2023	27	231	137	352	0.23	27	231	137	352	0.23	0	0	0	0	-
October 2023	7	61	17	121	0.431	7	61	17	121	0.431	0	0	0	0	-
December 2023	6	51	9	104	0.468	5	43	9	87	0.519	1	9	1	26	0.988
January 2024	18	160	79	255	0.286	18	160	79	255	0.286	0	0	0	0	-
February 2024	23	195	111	282	0.227	23	195	111	282	0.227	0	0	0	0	-

Table 1-108 Guillemot/Razorbill (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	2.22	1.40	3.13	2.08	1.23	3.00	0.13	0.02	0.25
April 2022	0.43	0.19	0.68	0.38	0.17	0.64	0.04	0.00	0.13
July 2022	0.27	0.09	0.55	0.17	0.04	0.34	0.11	0.01	0.32
August 2022	0.44	0.21	0.76	0.44	0.21	0.76	0.00	0.00	0.00
September 2022	3.03	2.31	3.81	2.99	2.27	3.74	0.04	0.00	0.13
October 2022	0.13	0.04	0.23	0.13	0.04	0.23	0.00	0.00	0.00
November 2022	0.07	0.01	0.15	0.07	0.01	0.15	0.00	0.00	0.00
December 2022	0.04	0.00	0.11	0.04	0.00	0.11	0.00	0.00	0.00
January 2023	0.11	0.02	0.21	0.08	0.02	0.19	0.02	0.00	0.06
February 2023	0.09	0.02	0.19	0.09	0.02	0.19	0.00	0.00	0.00
March 2023	0.06	0.01	0.15	0.06	0.01	0.15	0.00	0.00	0.00
April 2023	0.19	0.06	0.34	0.15	0.04	0.28	0.04	0.00	0.11
May 2023	0.08	0.02	0.17	0.08	0.02	0.17	0.00	0.00	0.00
June 2023	0.02	0.00	0.07	0.02	0.00	0.07	0.00	0.00	0.00
July 2023	0.08	0.01	0.21	0.08	0.01	0.21	0.00	0.00	0.00
August 2023	0.27	0.11	0.46	0.27	0.11	0.46	0.00	0.00	0.00
September 2023	0.56	0.33	0.86	0.56	0.33	0.86	0.00	0.00	0.00
October 2023	0.15	0.04	0.30	0.15	0.04	0.30	0.00	0.00	0.00
December 2023	0.12	0.02	0.25	0.11	0.02	0.21	0.02	0.00	0.06
January 2024	0.39	0.19	0.62	0.39	0.19	0.62	0.00	0.00	0.00
February 2024	0.48	0.27	0.69	0.48	0.27	0.69	0.00	0.00	0.00

1.23 AUK/SHEARWATER SPECIES (UNIDENTIFIED)

Table 1-109 Auk/Shearwater species (unidentified) design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
April 2022	1	9	1	27	0.974	0	0	0	0	-	1	9	1	27	0.974
July 2022	28	243	61	525	0.491	15	130	15	350	0.738	13	113	13	271	0.608
September 2022	1	9	1	26	0.96	1	9	1	26	0.96	0	0	0	0	-
April 2023	2	18	2	44	0.68	1	9	1	27	0.968	1	9	1	27	0.979
May 2023	1	9	1	27	0.969	0	0	0	0	-	1	9	1	27	0.969
June 2023	1	9	1	27	0.989	0	0	0	0	-	1	9	1	27	0.989

Table 1-110 Auk/Shearwater species (unidentified) design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
April 2022	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19
July 2022	1.73	0.44	3.74	0.93	0.11	2.50	0.81	0.09	1.93
September 2022	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00
April 2023	0.13	0.01	0.31	0.06	0.01	0.19	0.06	0.01	0.19
May 2023	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19
June 2023	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19

Table 1-111 Auk/Shearwater species (unidentified) design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
April 2022	5	45	5	97	0.569	2	17	2	53	0.981	3	28	3	71	0.697
July 2022	32	277	79	560	0.437	18	156	18	394	0.641	14	121	14	280	0.572
September 2022	2	17	2	44	0.679	2	17	2	44	0.679	0	0	0	0	-
April 2023	4	36	9	71	0.476	1	9	1	27	<1	3	27	3	62	0.552
May 2023	1	9	1	27	<1	0	0	0	0	-	1	9	1	27	<1
June 2023	1	9	1	27	<1	0	0	0	0	-	1	9	1	27	<1
July 2023	1	9	1	27	0.994	1	9	1	27	0.994	0	0	0	0	-

Table 1-112 Auk/Shearwater species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
April 2022	0.17	0.02	0.37	0.06	0.01	0.20	0.11	0.01	0.27
July 2022	1.06	0.30	2.13	0.59	0.07	1.50	0.46	0.05	1.07
September 2022	0.06	0.01	0.17	0.06	0.01	0.17	0.00	0.00	0.00
April 2023	0.14	0.03	0.27	0.03	0.00	0.10	0.10	0.01	0.24
May 2023	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10
June 2023	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10
July 2023	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00

Table 1-113 Auk/Shearwater species (unidentified) design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	1	9	1	26	0.992	1	9	1	26	0.992	0	0	0	0	-
April 2022	9	79	9	182	0.54	6	54	6	139	0.749	3	26	3	69	0.73
June 2022	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-
July 2022	35	305	95	578	0.403	21	182	26	406	0.562	14	122	17	285	0.559
September 2022	3	26	3	60	0.575	3	26	3	60	0.575	0	0	0	0	-
April 2023	4	35	9	70	0.5	1	9	1	35	1	3	26	3	61	0.565
May 2023	1	9	1	26	<1	0	0	0	0	-	1	9	1	26	<1
June 2023	3	27	3	71	0.734	2	18	2	53	0.998	1	9	1	27	0.989
July 2023	6	52	17	96	0.399	4	34	9	70	0.488	2	17	2	44	0.692
October 2023	1	9	1	35	0.997	0	0	0	0	-	1	9	1	35	0.997

Table 1-114 Auk/Shearwater species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
April 2022	0.19	0.02	0.44	0.13	0.01	0.34	0.06	0.01	0.17
June 2022	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
July 2022	0.75	0.23	1.41	0.44	0.06	0.99	0.30	0.04	0.70
September 2022	0.06	0.01	0.15	0.06	0.01	0.15	0.00	0.00	0.00
April 2023	0.09	0.02	0.17	0.02	0.00	0.09	0.06	0.01	0.15
May 2023	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06
June 2023	0.07	0.01	0.17	0.04	0.00	0.13	0.02	0.00	0.07
July 2023	0.13	0.04	0.23	0.08	0.02	0.17	0.04	0.00	0.11

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
October 2023	0.02	0.00	0.09	0.00	0.00	0.00	0.02	0.00	0.09

1.24 CORMORANT/SHAG SPECIES (UNIDENTIFIED)

Table 1-115 Cormorant/Shag species (unidentified) design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	1	9	1	27	<1	1	9	1	27	<1	0	0	0	0	-
January 2024	1	9	1	27	<1	0	0	0	0	-	1	9	1	27	<1

Table 1-116 Cormorant/Shag species (unidentified) design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00
January 2024	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19

Table 1-117 Cormorant/Shag species (unidentified) design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-
January 2024	3	26	3	72	0.763	2	17	2	54	<1	1	9	1	27	0.991
February 2024	1	9	1	26	0.92	1	9	1	26	0.92	0	0	0	0	-

Table 1-118 Cormorant/Shag species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
January 2024	0.10	0.01	0.27	0.06	0.01	0.21	0.03	0.00	0.10
February 2024	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00

Table 1-119 Cormorant/Shag species (unidentified) design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	1	8	1	26	0.995	1	8	1	26	0.995	0	0	0	0	-
November 2022	2	17	2	43	0.715	0	0	0	0	-	2	17	2	43	0.715
February 2023	1	8	1	34	<1	0	0	0	0	-	1	8	1	34	<1
November 2023	3	28	3	70	0.729	2	18	2	53	0.98	1	9	1	26	0.96
January 2024	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-
February 2024	1	8	1	26	0.995	1	8	1	26	0.995	0	0	0	0	-

Table 1-120 Cormorant/Shag species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
November 2022	0.04	0.00	0.11	0.00	0.00	0.00	0.04	0.00	0.11
February 2023	0.02	0.00	0.08	0.00	0.00	0.00	0.02	0.00	0.08
November 2023	0.07	0.01	0.17	0.04	0.00	0.13	0.02	0.00	0.06
January 2024	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
February 2024	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00

1.25 FULMAR/GULL SPECIES (UNIDENTIFIED)

Table 1-121 Fulmar/Gull species (unidentified) design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
November 2022	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-
December 2023	2	18	2	44	0.674	0	0	0	0	-	2	18	2	44	0.674

Table 1-122 Fulmar/Gull species (unidentified) design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
November 2022	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00
December 2023	0.13	0.01	0.31	0.00	0.00	0.00	0.13	0.01	0.31

Table 1-123 Fulmar/Gull species (unidentified) design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
November 2022	1	9	1	35	<1	1	9	1	35	<1	0	0	0	0	-
December 2023	2	18	2	44	0.719	0	0	0	0	-	2	18	2	44	0.719

Table 1-124 Fulmar/Gull species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
November 2022	0.03	0.00	0.13	0.03	0.00	0.13	0.00	0.00	0.00
December 2023	0.07	0.01	0.17	0.00	0.00	0.00	0.07	0.01	0.17

Table 1-125 Fulmar/Gull species (unidentified) design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
November 2022	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-
July 2023	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-
August 2023	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-
November 2023	1	8	1	26	0.976	1	8	1	26	0.976	0	0	0	0	-
December 2023	2	18	2	52	0.697	0	0	0	0	-	2	18	2	52	0.697
February 2024	1	9	1	26	0.947	0	0	0	0	-	1	9	1	26	0.947

Table 1-126 Fulmar/Gull species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
November 2022	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
July 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
August 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
November 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
December 2023	0.04	0.00	0.13	0.00	0.00	0.00	0.04	0.00	0.13
February 2024	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06

1.26 GULL SPECIES (UNIDENTIFIED)

Table 1-127 Gull species (unidentified) design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
August 2022	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-

Table 1-128 Gull species (unidentified) design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
August 2022	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00

Table 1-129 Gull species (unidentified) design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
August 2022	1	10	1	26	0.959	1	10	1	26	0.959	0	0	0	0	-

Table 1-130 Gull species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
August 2022	0.04	0.00	0.10	0.04	0.00	0.10	0.00	0.00	0.00

Table 1-131 Gull species (unidentified) design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
August 2022	1	8	1	26	<1	1	8	1	26	<1	0	0	0	0	-

Table 1-132 Gull species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
August 2022	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00

1.27 LARGE GULL SPECIES (UNIDENTIFIED)

Table 1-133 Large Gull species (unidentified) design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
January 2023	1	9	1	26	0.985	1	9	1	26	0.985	0	0	0	0	-

Table 1-134 Large Gull species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
January 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00

1.28 SMALL GULL SPECIES (UNIDENTIFIED)

Table 1-135 Small gull species (unidentified) design-based abundance estimates for Turbine Area 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
July 2022	3	26	3	70	0.75	2	17	2	52	<1	1	9	1	26	0.971
December 2023	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-

Table 1-136 Small gull species (unidentified) design-based abundance estimates for Turbine Area 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
July 2022	0.10	0.01	0.27	0.06	0.01	0.20	0.03	0.00	0.10
December 2023	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00

Table 1-137 Small gull species (unidentified) design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
July 2022	3	25	3	69	0.728	2	17	2	52	0.981	1	8	1	26	<1
December 2023	1	9	1	26	1	1	9	1	26	1	0	0	0	0	-

Table 1-138 Small gull species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
July 2022	0.06	0.01	0.17	0.04	0.00	0.13	0.02	0.00	0.06
December 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00

1.29 STORM PETREL SPECIES (UNIDENTIFIED)

Table 1-139 Storm petrel species (unidentified) design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
September 2022	2	17	2	52	<1	0	0	0	0	-	2	17	2	52	<1
August 2023	1	9	1	26	<1	0	0	0	0	-	1	9	1	26	<1

Table 1-140 Storm petrel species (unidentified) design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
September 2022	0.12	0.01	0.37	0.00	0.00	0.00	0.12	0.01	0.37
August 2023	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19

Table 1-141 Storm petrel species (unidentified) design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
September 2022	12	102	12	236	0.59	0	0	0	0	-	12	102	12	236	0.59
August 2023	1	9	1	26	0.968	0	0	0	0	-	1	9	1	26	0.968

Table 1-142 Storm petrel species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
September 2022	0.39	0.05	0.90	0.00	0.00	0.00	0.39	0.05	0.90
August 2023	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10

Table 1-143 Storm petrel species (unidentified) design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
July 2022	1	8	1	26	<1	0	0	0	0	-	1	8	1	26	<1
September 2022	12	102	12	267	0.652	0	0	0	0	-	12	102	12	267	0.652
August 2023	1	9	1	26	<1	0	0	0	0	-	1	9	1	26	<1

Table 1-144 Storm petrel species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
July 2022	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06
September 2022	0.25	0.03	0.65	0.00	0.00	0.00	0.25	0.03	0.65
August 2023	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06

1.30 SMALL SHEARWATER SPECIES (UNIDENTIFIED)

Table 1-145 Small shearwater species (unidentified) design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
July 2022	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-
August 2022	1	9	1	26	0.971	0	0	0	0	-	1	9	1	26	0.971
July 2023	1	9	1	27	<1	0	0	0	0	-	1	9	1	27	<1

Table 1-146 Small shearwater species (unidentified) design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
July 2022	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00
August 2022	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19
July 2023	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19

Table 1-147 Small shearwater species (unidentified) design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
July 2022	6	52	9	114	0.527	2	17	2	44	0.715	4	35	4	87	0.699
August 2022	2	18	2	44	0.72	0	0	0	0	-	2	18	2	44	0.72
July 2023	1	9	1	27	0.969	0	0	0	0	-	1	9	1	27	0.969

Table 1-148 Small shearwater species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
July 2022	0.20	0.03	0.43	0.06	0.01	0.17	0.13	0.02	0.33
August 2022	0.07	0.01	0.17	0.00	0.00	0.00	0.07	0.01	0.17
July 2023	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10

Table 1-149 Small shearwater species (unidentified) design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
July 2022	29	248	29	665	0.731	2	17	2	43	0.702	27	231	27	639	0.785
August 2022	2	17	2	43	0.729	0	0	0	0	-	2	17	2	43	0.729
July 2023	1	9	1	26	0.988	0	0	0	0	-	1	9	1	26	0.988

Table 1-150 Small shearwater species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
July 2022	0.61	0.07	1.63	0.04	0.00	0.11	0.56	0.07	1.56
August 2022	0.04	0.00	0.11	0.00	0.00	0.00	0.04	0.00	0.11
July 2023	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06

1.31 “COMMIC” (COMMON OR ARCTIC) TERN SPECIES (UNIDENTIFIED)

Table 1-151 “Commic” tern species (unidentified) design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
July 2022	1	9	1	26	0.998	0	0	0	0	-	1	9	1	26	0.998

Table 1-152 “Commic” tern species (unidentified) design-based density estimates for Turbine Area (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
July 2022	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19

Table 1-153 “Commic” tern species (unidentified) design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
July 2022	4	35	4	79	0.598	1	9	1	26	0.992	3	26	3	70	0.732
June 2023	5	45	5	136	0.988	5	45	5	136	0.988	0	0	0	0	-
July 2023	1	9	1	27	0.956	0	0	0	0	-	1	9	1	27	0.956

Table 1-154 "Commic" tern species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
July 2022	0.13	0.02	0.30	0.03	0.00	0.10	0.10	0.01	0.27
June 2023	0.17	0.02	0.52	0.17	0.02	0.52	0.00	0.00	0.00
July 2023	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10

Table 1-155 "Commic" tern species (unidentified) design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
July 2022	11	96	26	190	0.423	3	26	3	69	0.742	8	70	9	155	0.519
June 2023	5	47	5	177	0.979	5	47	5	177	0.979	0	0	0	0	-
July 2023	3	26	3	61	0.582	0	0	0	0	-	3	26	3	61	0.582
August 2023	1	9	1	26	0.987	0	0	0	0	-	1	9	1	26	0.987

Table 1-156 "Commic" tern species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
July 2022	0.23	0.06	0.46	0.06	0.01	0.17	0.17	0.02	0.38
June 2023	0.11	0.01	0.43	0.11	0.01	0.43	0.00	0.00	0.00
July 2023	0.06	0.01	0.15	0.00	0.00	0.00	0.06	0.01	0.15
August 2023	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06

1.32 WADER SPECIES (UNIDENTIFIED)

Table 1-157 Wader species (unidentified) design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
August 2022	1	8	1	26	<1	0	0	0	0	-	1	8	1	26	<1

Table 1-158 wader species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
August 2022	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06

1.33 BIRD SPECIES (UNIDENTIFIED)

Table 1-159 Bird species (unidentified) design-based abundance estimates for Turbine Area (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	2	18	2	54	0.752	1	9	1	27	<1	1	9	1	27	<1
May 2022	1	9	1	35	<1	1	9	1	35	<1	0	0	0	0	-
August 2022	1	9	1	26	0.947	1	9	1	26	0.947	0	0	0	0	-
September 2022	2	17	2	44	0.683	2	17	2	44	0.683	0	0	0	0	-
January 2023	1	9	1	26	0.985	0	0	0	0	-	1	9	1	26	0.985
April 2023	1	9	1	27	0.982	0	0	0	0	-	1	9	1	27	0.982
July 2023	1	9	1	27	0.99	1	9	1	27	0.99	0	0	0	0	-
February 2024	1	9	1	26	0.988	1	9	1	26	0.988	0	0	0	0	-

Table 1-160 Bird species (unidentified) design-based density (birds per km²) estimates for Turbine Array (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.13	0.01	0.39	0.06	0.01	0.19	0.06	0.01	0.19
May 2022	0.06	0.01	0.25	0.06	0.01	0.25	0.00	0.00	0.00
August 2022	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00
September 2022	0.12	0.01	0.31	0.12	0.01	0.31	0.00	0.00	0.00

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
January 2023	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19
April 2023	0.06	0.01	0.19	0.00	0.00	0.00	0.06	0.01	0.19
July 2023	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00
February 2024	0.06	0.01	0.19	0.06	0.01	0.19	0.00	0.00	0.00

Table 1-161 Bird species (unidentified) design-based abundance estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	4	36	9	71	0.503	3	27	3	62	0.583	1	9	1	35	0.991
May 2022	1	9	1	26	0.984	1	9	1	26	0.984	0	0	0	0	-
August 2022	1	9	1	26	0.998	1	9	1	26	0.998	0	0	0	0	-
September 2022	3	26	3	61	0.555	3	26	3	61	0.555	0	0	0	0	-
January 2023	1	9	1	26	0.989	0	0	0	0	-	1	9	1	26	0.989
April 2023	1	9	1	35	<1	0	0	0	0	-	1	9	1	35	<1
July 2023	1	8	1	27	<1	1	8	1	27	<1	0	0	0	0	-
January 2024	2	18	2	45	0.73	2	18	2	45	0.73	0	0	0	0	-
February 2024	1	9	1	26	0.983	1	9	1	26	0.983	0	0	0	0	-

Table 1-162 Bird species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 2 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.14	0.03	0.27	0.10	0.01	0.24	0.03	0.00	0.13
May 2022	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
August 2022	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
September 2022	0.10	0.01	0.23	0.10	0.01	0.23	0.00	0.00	0.00
January 2023	0.03	0.00	0.10	0.00	0.00	0.00	0.03	0.00	0.10
April 2023	0.03	0.00	0.13	0.00	0.00	0.00	0.03	0.00	0.13
July 2023	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00
January 2024	0.07	0.01	0.17	0.07	0.01	0.17	0.00	0.00	0.00
February 2024	0.03	0.00	0.10	0.03	0.00	0.10	0.00	0.00	0.00

Table 1-163 Bird species (unidentified) design-based abundance estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
March 2022	4	35	9	78	0.517	3	26	3	61	0.598	1	9	1	35	0.987
May 2022	1	9	1	26	<1	1	9	1	26	<1	0	0	0	0	-
July 2022	1	8	1	26	<1	0	0	0	0	-	1	8	1	26	<1
August 2022	2	17	2	43	0.691	2	17	2	43	0.691	0	0	0	0	-
September 2022	4	34	9	69	0.502	4	34	9	69	0.502	0	0	0	0	-
January 2023	1	9	1	26	<1	0	0	0	0	-	1	9	1	26	<1
March 2023	2	18	2	43	0.7	2	18	2	43	0.7	0	0	0	0	-
April 2023	2	18	2	43	0.703	0	0	0	0	-	2	18	2	43	0.703
May 2023	1	8	1	26	<1	0	0	0	0	-	1	8	1	26	<1

Survey	All Behaviours					Sitting Only					Flying Only				
	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV	Raw Count	Estimated Abundance	LCL	UCL	CV
July 2023	1	9	1	26	0.979	1	9	1	26	0.979	0	0	0	0	-
January 2024	2	17	2	44	0.69	2	17	2	44	0.69	0	0	0	0	-
February 2024	1	9	1	26	0.967	1	9	1	26	0.967	0	0	0	0	-

Table 1-164 Bird species (unidentified) design-based density (birds per km²) estimates for Turbine Area plus 4 km buffer (unapportioned)

Survey	All Behaviours			Sitting Only			Flying Only		
	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL	Estimated Density	LCL	UCL
March 2022	0.09	0.02	0.19	0.06	0.01	0.15	0.02	0.00	0.09
May 2022	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
July 2022	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06
August 2022	0.04	0.00	0.11	0.04	0.00	0.11	0.00	0.00	0.00
September 2022	0.08	0.02	0.17	0.08	0.02	0.17	0.00	0.00	0.00
January 2023	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06
March 2023	0.04	0.00	0.11	0.04	0.00	0.11	0.00	0.00	0.00
April 2023	0.04	0.00	0.11	0.00	0.00	0.00	0.04	0.00	0.11
May 2023	0.02	0.00	0.06	0.00	0.00	0.00	0.02	0.00	0.06
July 2023	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00
January 2024	0.04	0.00	0.11	0.04	0.00	0.11	0.00	0.00	0.00
February 2024	0.02	0.00	0.06	0.02	0.00	0.06	0.00	0.00	0.00

1.34 GLOSSARY OF TERMS AND ABBREVIATIONS

1.34.1.1 A list of key terms and acronyms used in this Appendix are provided in **Table 1-165** and **Table 1-166**.

Table 1-165 Acronyms and abbreviations

Term	Definition
CV	Coefficient of variation
LCL	Lower confidence limit
UCL	Upper confidence limit

Table 1-166 Glossary

Term	Meaning
Coefficient of variation	The ratio of the standard deviation to the mean
Lower confidence limit	Represents the lower bound of a confidence interval
Upper confidence limit	Represents the upper bound of a confidence interval

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