



Appendix 2 Existing defences

The tables contained within this Appendix present information on the existing defences along the open coast and within Pagham Harbour. The information is based on the MAFF Coast Protection Survey (CPS) and the NRA (now Environment Agency) Sea Defence Survey (SDS), updated and modified following site visits and consultations.

The tables include:

- Ordnance Survey coordinates for the starting point of the defence element (working from east to west)
- the total length of the defence element
- the maintaining authority
- the structure type (wall, revetment, gabions, groynes, embankment, recharged beach or unprotected)
- the condition of the defence, classified as:
 - 1 as built
 - 2 some wear, needs monitoring
 - 3 moderate works required to retain effectiveness
 - 4 significant works required.
- residual life, classified as:
 - < 5 years
 - 5-10 years
 - > 10 years
- CPS or SDS code.

An asterisk (*) indicates that the CPS or SDS information has corrected, updated or expanded.

The Pagham Harbour table is broken by location references to assist the reader.

Pagham Harbour Defence elements (clockwise from harbour entrance)

(* indicates correction, update or addition to Coast Protection Survey and Sea Defence Survey)

OS co-ordinates (start of element)	Element length (km)	Maintaining authority	Structure type	Condition (1-As built 4-Poor)	Residual life (years)	SDS code
Harbour entrance - South spit						
SZ88009605	1.0	N/A	Unprotected	N/A	N/A	*
SZ87409530	0.4	Private*	Embankment	2	> 10	074/2201
SZ87309565	0.2	N/A	Unprotected	N/A	N/A	*
SZ87109610	1.20	Env. Agency	Embankment	2	> 10	*
SZ86129645	0.38	Env. Agency	Embankment	3	> 10	074/2205
SZ85839632	0.21	Env. Agency	Embankment	3	> 10	074/2206
SZ85649630	0.03	Env. Agency	Embankment	2	> 10	074/2207
B2145 bridge, Ferry House						
SZ85659637	0.11	Env. Agency	Embankment	3	> 10	074/2208
SZ85649637	0.2	Env. Agency	Embankment	3	> 10	*
SZ58709650	0.1	Env. Agency	Revetment	2	> 10	New Work
SZ85759656	0.45	Env. Agency	Embankment	3	> 10	*
SZ86089692	0.23	WSCC	Embankment	3	>10	*
SZ86059715	0.12	Env. Agency	Embankment	3	>10	*
SZ86009723	0.11	Env. Agency	Embankment	2	> 10	074/2210
Sidlesham						
SZ86099723	0.08	Sidlesham PC*	Wall	3	> 10	074/2211
SZ86169730	0.26	Private-*	Wall	4	5 - 10	074/2212
SZ86459725	0.20	Private	Embankment	3	> 10	*
SZ86599725	0.32	WSCC	Embankment	3	>10	*
SZ86859730	0.10	WSCC*	Embankment	4	5- 10	074/2214
SZ86979729	0.13	WSCC*	Embankment	3	> 10	074/2215
SZ87099730	0.01	WSCC*	Wall	4	5 - 10	074/2216
SZ87119733	0.20	WSCC*	Embankment	4	5- 10	074/2217
SZ87109750	0.16	WSCC*	Wall	3	> 10	074/2218
SZ87009965	0.28	Env. Agency	Revetment*	3	> 10	074/2219

North Wall						
SZ87119770	0.53	Env. Agency	Revetment	2	> 10	074/2220
SZ87819765	0.12	Private*	Wall	3	> 10	074/2221
SZ87839761	0.39	Private*	Embankment	2	> 10	074/2222
SZ87759724	0.27	Private*	Embankment	3	> 10	074/2223
SZ87959694	0.30	Env. Agency	Embankment	3	> 10	074/2224
Pagham Lagoon						
SZ88219682	0.12	Env. Agency	Embankment & wall	3	5- 10	074/2225/2
SZ88229670	0.08	Env. Agency	Embankment	2	5-10	074/2225/1
SZ88229661	0.04	Env. Agency	Embankment	2	> 10	074/2226
SZ88329655	0.56	N/A	Unprotected	N/A	N/A	*
Harbour entrance - North spit training wall						

Unit 1 Defence elements (from east to west)

(* indicates correction, update or addition to Coast Protection Survey or Sea Defence Survey)

OS co-ordinates (start of element)	Element length (km)	Maintaining authority	Structure type	Condition	Residual life (years)	CPS/SDS code
SZ89159720	1.55	Arun. D.C. N/A	Groynes ¹ Unprotected	1 N/A	> 10 N/A	New Work
SZ88059610	0.18	Env. Agency	Training Wall	3*	< 5	074/2231
SZ87989603	1.27*	Env. Agency	Groynes ²	3	< 5*	074/2101
SZ87389491	0.65*	Chich. D.C.	Breastwork ¹ Groynes	2 3	> 10 > 10	574/3401

1 not on full length of element

2 ongoing beach management

Unit 2 Defence elements (east to west)

(* indicates correction, update or addition to Coast Protection Survey or Sea Defence Survey)

OS Co-ordinates (start of element)	Element length (km)	Maintaining authority	Structure type	Condition	Residual life (years)	CPS code
SZ87239433	0.5	Chich. D.C.	Gabions/ breastwork ¹ Groynes	2 3	> 10 > 10	574/3401
SZ86999389	1.87	Chich. D.C.	Wall Groynes Recharge ²	2 3 2	> 10 > 10 5 - 10*	574/3402
SZ85959243	0.27	Chich. D.C.	Wall Groynes	2 - 3 2	> 10 > 10	574/3403
SZ85819222	0.04	Chich. D.C.	Wall Groynes	2 2	> 10 > 10	574/3404
SZ85829218	0.25	Chich. D.C.	Groynes	2	> 10	574/3405
SZ85569214	0.07	Chich. D.C.	Wall Groynes	3 2	> 10 > 10	574/3406
SZ85499215	0.17	Chich. D.C.	Gabions Groynes	3* 2	5 - 10 > 10	574/3407
SZ85339220	0.3	Chich. D.C.	Wall Groynes	1 1	> 10 > 10	574/3408
SZ85079235	0.32	Chich. D.C.	Wall Groynes	2 2	> 10 > 10	574/3409
SZ84819255	0.04	Chich. D.C. / Private	Wall/armour	2 - 3	> 10	574/3410
SZ84789259	0.1	Private	Wall	2	> 10	574/3411
SZ84709265	0.07	Chich. D.C.	Wall / revetment / armour Groynes	1 - 3 2	> 10 > 10	574/3412
SZ84689271	0.14	Chich. D.C. / Private	Wall Groynes	3 2	5 - 10* > 10	574/3413
SZ84609282	0.25	Chich. D.C.	Wall Groynes	2 2	> 10 > 10	574/3414

1 not on full length of element

2 ongoing beach management

Unit 3 Defence elements (from east to west)

(* indicates correction, update or addition to Coast Protection Survey or Sea Defence Survey)

OS co-ordinates (start of element)	Element length (km)	Maintaining authority	Structure type	Condition	Residual life (years)	CPS code
SZ84459309	0.30	N/A	Unprotected	N/A	N/A	*
SZ84409305	0.29	Env. Agency	Groynes Recharge ²	4 4*	< 5 < 5*	074/2004
SZ83919354	0.38	Env. Agency	Wall Groynes Recharge ²	2 2 4*	< 5 ¹ 5 - 10 < 5*	074/2003
SZ83729380	0.23	Env. Agency	Groynes Recharge ²	2 4*	5 - 10 < 5*	074/2002
SZ83659387	3.04	Env. Agency	Groynes Recharge ²	3 4*	5 - 10 < 5*	074/2001

1 ongoing beach management

Unit 4 Defence elements (from east to west)

(* indicates correction, update or addition to Coast Protection Survey or Sea Defence Survey)

OS co-ordinates (start of element)	Element length (km)	Maintaining authority	Structure type	Condition	Residual life (years)	CPS code
SZ81459571	0.16	Chich. D.C.	Wall Groynes	2 3	5 - 10 5 - 10	574/3415
SZ81339579	0.63	Chich. D.C. ¹	Wall Groynes	3 3	5 - 10 5 - 10	574/3416
SZ80809612	0.56	Chich. D.C.	Wall Groynes	3 3	5 - 10 5 - 10	574/3417
SZ80339640	0.46	Chich. D.C.	Wall Groynes	3 3	5 - 10 5 - 10	574/3418
SZ79939662	0.59	Chich. D.C.	Breastwork Groynes	4 4	5 - 10 < 5	574/3419
SZ79389685	0.43	Chich. D.C.	Breastwork Groynes	2 2	> 10 > 10	574/3420
SZ78999702	0.43	Chich. D.C. & Private	Breastwork Groynes	2 2	> 10 > 10	574/3421
SZ78619718	0.12*	Chich. D.C.	Breastwork Groynes	3 3	> 10 > 10	574/3422

1 short length of private upper wall

Unit 5 Defence elements (east to west)

(* indicates correction, update or addition to Coast Protection Survey or Sea Defence Survey)

OS co-ordinates (start of element)	Element length (km)	Maintaining authority	Structure type	Condition	Residual life (years)	CPS code
SZ78509720	0.15*	Chich. D.C.	Breastwork Groynes	3* 3*	5 - 10* 5 - 10*	574/3422
SZ78379728	2.36	Chich. D.C.	Breastwork ¹ Gabions ¹ Groynes	2 - 4 3 3	5 - 10 < 5* 5 - 10	574/3423
SZ76489853	1.0	N/A	Unprotected ²	2	N/A	N/A

- 1 not on full length of element
2 ongoing dune management

Unit 6 Defence elements (east to west)

(* indicates correction, update or addition to Coast Protection Survey or Sea Defence Survey)

OS co-ordinates (start of element)	Element length (km)	Maintaining authority	Structure type	Condition	Residual life (years)	CPS code
SZ75069910	0.21	Private	Wall/ Breastwork Groynes	3/4 4	<5 <5*	571/3330
SZ75089890	0.34	Private	Wall Groynes	4 3	< 5 5 - 10	571/3331
SZ75069856	0.11	Hamp. C.C/ Private	Wall Groynes	3 3	5 - 10* 5 - 10*	571/3332
SZ75099838	0.53	Havant C.C. Hamp C.C.	Revetment ¹ Groynes	2 2	> 10 > 10	571/3333
SZ74789800	1.82	Havant B.C.	Wall Groynes Recharge ²	2/3 3 3	> 10 > 10 5 - 10	571/3334-35
SZ73039843	0.28	Havant B.C.	Breastwork Recharge ²	3 3	5 - 10* 5 - 10	571/3336
SZ72779850	0.4	Havant B.C.	Groynes Recharge ²	3 3	> 10 5 - 10	571/3337
SZ72389857	0.89	Havant B.C.	Breastwork Groynes Recharge*	2 2 3	5 - 10* > 10 < 5*	571/3338
SZ71509880	1.06	Havant B.C.	Recharge ²	3	5 - 10	571/3339

- 1 Not on full length of element
2 Ongoing beach management

Unit 7 Defence elements (from east to west)

(* indicates correction, update or addition to Coast Protection Survey or Sea Defence Survey)

OS co-ordinates (start of element)	Element length (km)	Maintaining authority	Structure type	Condition	Residual life (years)	CPS code
SZ70559880	0.03	Private	Wall	3	> 10	571/3340
SZ70529881	0.48	Havant B.C./ Private	Revetment Groynes	2* 3	> 10 > 10	571/3341
SZ70049892	1.75	N/A	Unprotected	N/A	N/A	*
SZ68869964	0.32	Private	Wall/gabions Groynes	4 4	< 5 < 5	571/3342
SZ68819995	0.07	Private	Wall	2	> 10	571/3343
SZ68790002	0.09	Langstone Harbour Authority	Wall	3	> 10	571/3344

Unit 8 Defence elements (from east to west)

(* indicates correction, update or addition to Coast Protection Survey or Sea Defence Survey)

OS co-ordinates (start of element)	Element length (km)	Maintaining authority	Structure type	Condition	Residual life (years)	CPS code
SZ68450008	0.74	Ports C.C.	Gabions ¹ Groynes	4* 3	< 5 5 - 10	571/3223
SZ68539938	0.30	Private	Revetment	4	5 - 10	571/3224
SZ68459911	0.15	MoD	Wall Groynes	4 4	5 - 10 5 - 10	571/3225
SZ68349904	0.42	MoD	Wall ¹ Revetment ¹ Groynes	4 3 4	5 - 10 5 - 10 5 - 10	571/3226
SZ67939896	0.4	Ports C.C./ MoD	Revetment ¹ Embankment	3 3	5 - 10 5 - 10	571/3227
SZ67459887	2.96	Ports C.C.	Wall	2*	> 10	571/3328

1 not on full length of element



Unit 9 Defence elements (from east to west)

(* indicates correction, update or addition to Coast Protection Survey or Sea Defence Survey)

OS co-ordinates (start of element)	Element length (km)	Maintaining authority	Structure type	Condition	Residual life (years)	CPS code
SZ64629803	0.45	Ports C.C.	Wall ¹ Revetment ¹	2 3	> 10 > 10	571/3229
SZ64249803	0.7	Ports C.C.	Revetment*	3	> 10	571/3230
SZ63789848	0.42	Ports C.C.	Wall ²	3	> 10	571/3231
SZ63509878	0.2	Private	Wall* ³	3	> 10	571/3232
SZ63409894	0.14	Ports C.C.	Wall Groynes	3 4	5 - 10 < 5	571/3233
SZ63309903	0.21	Ports C.C.	Revetment	3	5 - 10*	571/3234
SZ63159915	0.11	Ports C.C.	Revetment	3	> 10	571/3235
SZ63079923	0.07	Ports C.C.	Wall	3	> 10	571/3236
SZ63039929	0.13	Ports C.C.	Wall	3	> 10	571/3237
SZ62929935	0.04	Ports C.C.	Revetment	3	> 10	571/3238
SZ62909938	0.04	Private	Wall	3	5 - 10	571/3239
SZ62899942	0.05	Ports C.C.	Wall	3	5 - 10	571/3240
SZ62889946	0.04	Ports C.C.	Wall	3	> 10	571/3241
SZ62879949	0.04	Private	Wall	3	> 10	571/3242
SZ62869952	0.04	Private	Wall Revetment ¹	3 3	> 10 > 10	571/3243
SZ62869957	0.07	Ports C.C.	Revetment	3	> 10	571/3244

- 1 not on full length of element
- 2 ongoing beach management
- 3 pier acts as groyne

Unit 10 Defence elements (from east to west)

(* indicates correction, update or addition to Coast Protection Survey or Sea Defence Survey)

OS co-ordinates (start of element)	Element length (km)	Maintaining authority	Structure type	Condition	Residual life (years)	CPS code
SZ62559945	0.28	MoD	Wall Revetment	3 3	> 10 > 10	571/3135
SZ62689929	0.06	MoD	Revetment	3	5 - 10	571/3136
SZ62679924	0.26	MoD	Revetment Groynes	4 4	5 - 10 < 5	571/3137
SZ62459906	0.2	MoD	Revetment	3	> 10	571/3138
SZ62339893	0.29	MoD	Revetment	3	> 10	571/3139
SZ62139875	0.51	MoD	Revetment	3	5 - 10	571/3140
SZ61759840	0.5	MoD	Revetment	3	> 10	571/3141
SZ61429804	0.47	MoD	Revetment	3	< 5	571/3142
SZ61099766	0.21	Gosport B.C.	Revetment Groynes	2 3	> 10 5 - 10	571/3143
SZ60939753	0.26	Gosport B.C.	Wall Groynes	2 3	> 10 > 10	571/3144

Unit 11 Defence elements (from east to west)

(* indicates correction, update or addition to Coast Protection Survey or Sea Defence Survey)

OS co-ordinates (start of element)	Element length (km)	Maintaining authority	Structure type	Condition	Residual life (year)	CPS code
SZ60689745	1.79	N/A	Unprotected*	N/A	N/A	571/3145/6
SZ59329860	0.37	Gosport B.C.	Wall	2	> 10	571/3147
SZ58989875	0.39	N/A ¹	Unprotected ¹	N/A	N/A	571/3148
SZ58599881	1.14	MoD	Unprotected	N/A	N/A	*
SZ57309920	0.4*	MoD	Revetment	4	< 5	571/3149

¹ ongoing beach management by Environment Agency to maintain outfall

Unit 12 Defence elements (from east to west)

(* indicates correction, update or addition to Coast Protection Survey or Sea Defence Survey)

OS co-ordinates (start of element)	Element length (km)	Maintaining authority	Structure type	Condition	Residual life (years)	CPS code
SZ56959949	1.6	Gosport B.C.	Wall Groynes* Recharge*	2 (1) (1)	20 - 50 > 10 > 10	(under construction)
SU56020078	0.4	Gosport B.C.	Wall Groynes	2 3	> 10 > 10	571/3155
SU55240153	0.95	Fareham B.C.	Breastwork Groynes	3 3	> 10 5 - 10*	571/3020
SU54640187	0.13	Fareham B.C.	Wall Groynes	3 3	> 10 5 - 10	571/3021
SU54520189	0.63	Fareham B.C.	Wall ¹ Groynes	3 4	5 - 10 < 5	571/3022
SU54020220	0.07	Fareham B.C.	Wall Groynes	3 3	5 - 10 5 - 10	571/3023
SU53950223	0.21	Fareham B.C.	Wall Groynes	2 3	> 10 5 - 10	571/3024
SU53760234	0.26	Fareham B.C.	Wall ¹ Wall ¹	3 3	> 10 > 10	571/3025

¹ not on full length of element

Appendix 3 References

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Unit 13 Defence elements (from east to west)

(* indicates correction, update or addition to Coast Protection Survey or Sea Defence Survey)

OS co-ordinates (start of element)	Element length (km)	Maintaining authority	Structure type	Condition	Residual life (years)	CPS code
SU53470227	0.34	Env. Agency Env.Ag./ Private	Wall ¹ Groynes ²	2 3	10 - 20 5 - 10	571/3026
SU53160227	0.25	Fareham B.C.	Wall	3	5 - 10	571/3027
SU52970242	2.7	N/A	Unprotected	N/A	N/A	*

1 not on full length of element

2 ongoing beach management

Unit 14 Defence elements (from east to west)

(* indicates correction, update or addition to Coast Protection Survey or Sea Defence Survey)

OS co-ordinates (start of element)	Element length (km)	Maintaining authority	Structure type	Condition	Residual life (years)	CPS code
SU50680381	0.18	Private	Gabions	2*	5 - 10*	571/3028
SU50510388	0.13	Private	Breastwork	4	< 5	571/3029
SU50390393	0.18	Private	Gabions	2*	5 - 10	571/3030
SU50230402	0.42	N/A	Unprotected ¹	N/A	N/A	*
SU49840417	0.05	Private	Wall	4*	< 5	571/3031
SU49790419	0.94	N/A	Unprotected	N/A	N/A	
SU49020472	0.35	Fareham B.C.	Wall	3	5 - 10*	571/3032
SU48830500	0.18	Fareham B.C.	Wall	4	< 5*	571/3033
SU48720514	0.21	N/A	Unprotected	N/A	N/A	*

1 new works planned by National Grid