Langstone Park

Masterplan

Flood Risk Assessment & Outline Drainage Strategy Report

Project Ref: **13023**

Report Ref: **R102**

Rev 5.0

January 2023

Client

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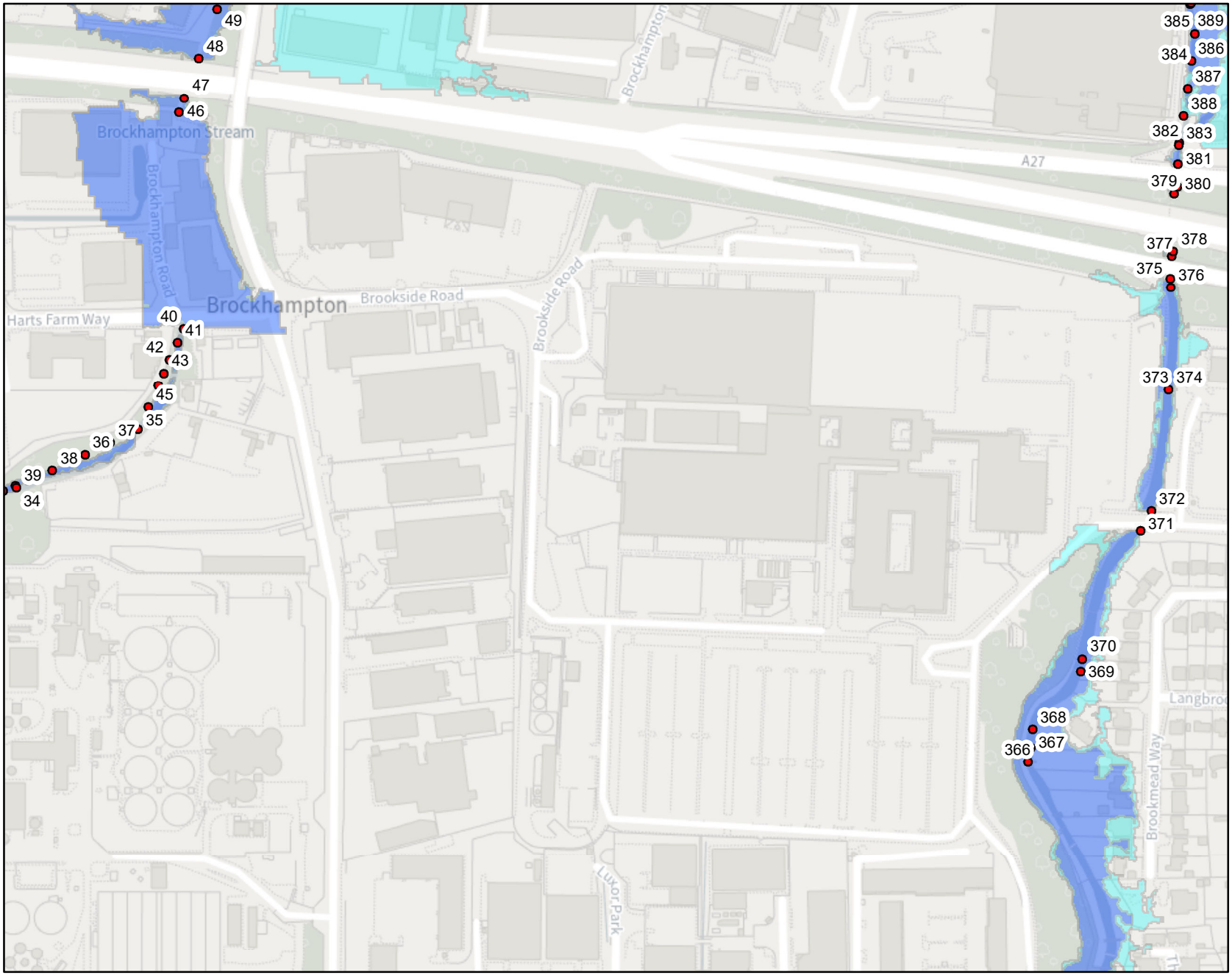
Appendix E – EA Updated River Levels and EA Coastal Design Sea Levels.

Modelled 1D Flood Levels in mAOD Centred on Langstone Technology Park - Created 4 August 2022



Environment Agency

Legend

- Lavant & Hermitage 1D Levels
- Lavant & Hermitage 100Yr (Flood Zone 3)
- Lavant & Hermitage 1000Yr (Flood Zone 2)

Flood Map Areas (assuming no defences)

Flood Zone 3
Shows the area that could be affected by flooding:
- from the sea with an 1 in 200 or greater chance of happening each year.
- or from a river with a 1 in 100 or greater chance of happenening each year.

Flood Zone 2
Shows the extent of an extreme flood from rivers of the sea with up to a 1 in 1000 chance of occuring each year.

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*when printed at A4.

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Metres

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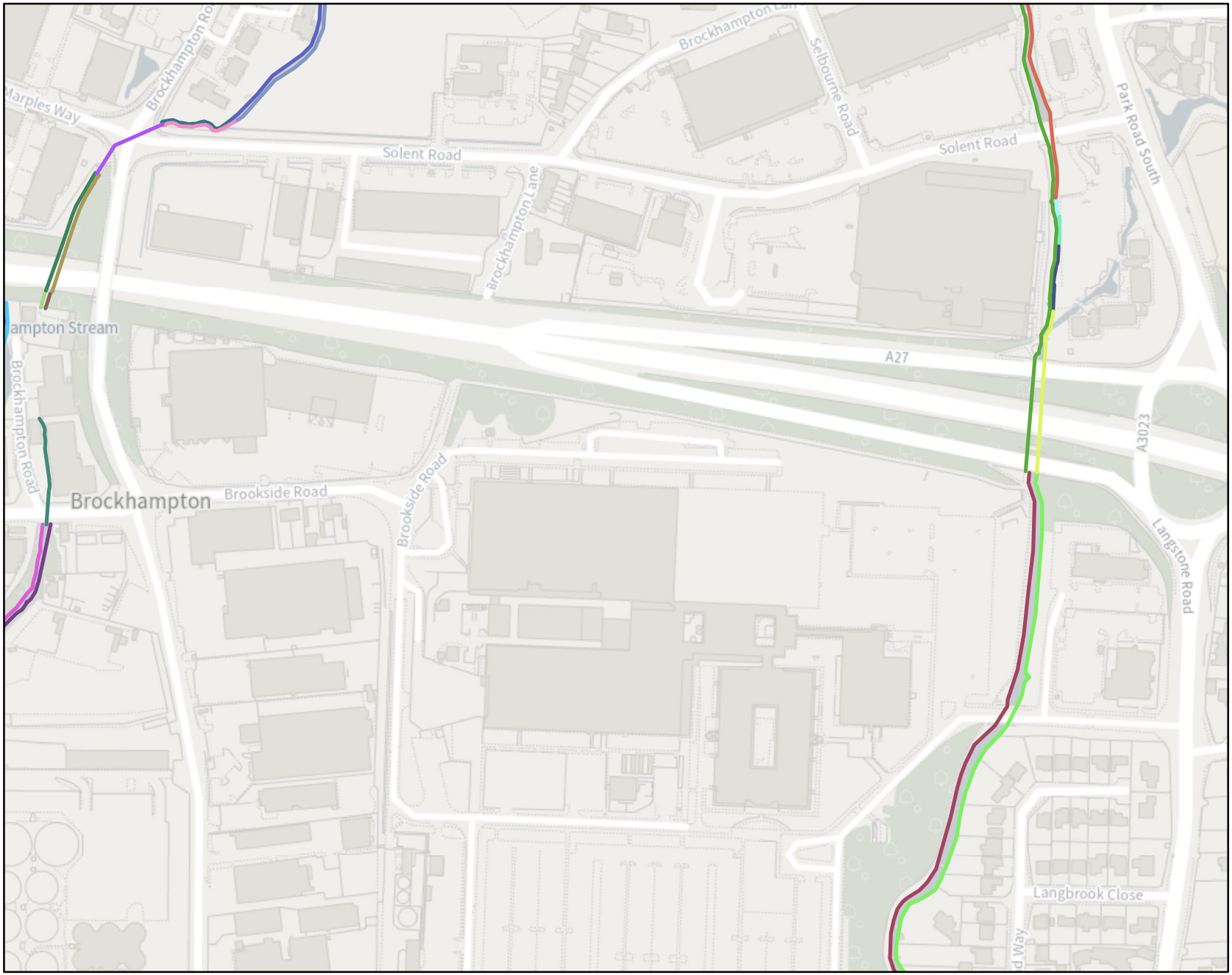
ID	EASTING	NORTHING	100yr Level	100yr Level No Dam	1000yr Level	1000yr Level No Dam
31	470736	105719	2.799	1.784	2.799	2.366
32	470713	105706	2.8	1.784	2.801	2.366
33	470739	105721	2.826	1.784	2.844	2.366
34	470747	105724	2.832	1.784	2.853	2.366
35	470830	105762	3.328	1.79	3.417	2.378
36	470794	105745	3.276	1.785	3.359	2.368
37	470811	105753	3.302	1.787	3.388	2.372
38	470772	105735	3.232	1.784	3.308	2.366
39	470748	105723	3.154	1.784	3.216	2.366
40	470860	105830	3.532	1.798	3.627	2.391
41	470856	105821	3.496	1.796	3.588	2.387
42	470851	105809	3.447	1.792	3.534	2.382
43	470847	105800	3.406	1.792	3.491	2.379
44	470843	105792	3.37	1.792	3.457	2.38
45	470836	105777	3.338	1.792	3.427	2.38
46	470857	105975	4.667	1.755	4.698	2.282
47	470861	105984	4.669	1.783	4.701	2.363
48	470870	106011	4.848	1.783	4.87	2.363
49	470882	106044	4.852	1.782	4.876	2.363
366	471426	105539	4.704	5.195	4.894	9.513
367	471428	105549	4.715	5.194	4.902	9.515
368	471429	105561	4.722	5.194	4.907	9.517
369	471461	105600	4.766	5.192	4.967	9.522
370	471462	105609	4.768	5.192	4.972	9.522
371	471501	105694	4.88	5.191	5.119	9.533
372	471509	105708	4.947	5.19	5.247	9.535
373	471520	105789	5.112	4.837	5.425	8.988
374	471520	105789	5.112	5.221	5.425	9.537
375	471521	105863	5.333	4.885	5.527	9.007
376	471522	105857	5.308	4.882	5.576	9.017
377	471522	105879	5.421	4.885	5.709	8.987
378	471523	105882	5.439	4.884	5.737	8.982
379	471524	105920	5.522	4.853	5.891	9.074
380	471526	105925	5.526	4.867	5.897	9.11
381	471526	105940	5.603	5.024	6.024	9.388
382	471527	105954	5.893	4.939	6.386	9.113
383	471527	105953	5.65	4.939	6.034	9.113
384	471538	106028	6.269	4.829	6.539	8.951
385	471538	106028	6.269	4.835	6.539	8.963
386	471536	106009	6.162	4.851	6.517	9.141
387	471533	105991	6.098	4.868	6.504	9.567
388	471530	105972	6.029	4.862	6.487	11.814

Defences Centred on Langstone Technology Park - Created 4 August 2022



Environment Agency

Legend

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- 104219
- 113661
- 113663
- 119545
- 171803
- 18839
- 19072
- 19073
- 22853
- 22854
- 23309
- 23310
- 23402
- 49053
- 49054
- 49553
- 49554
- 49982
- 49983
- 97827

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Metres

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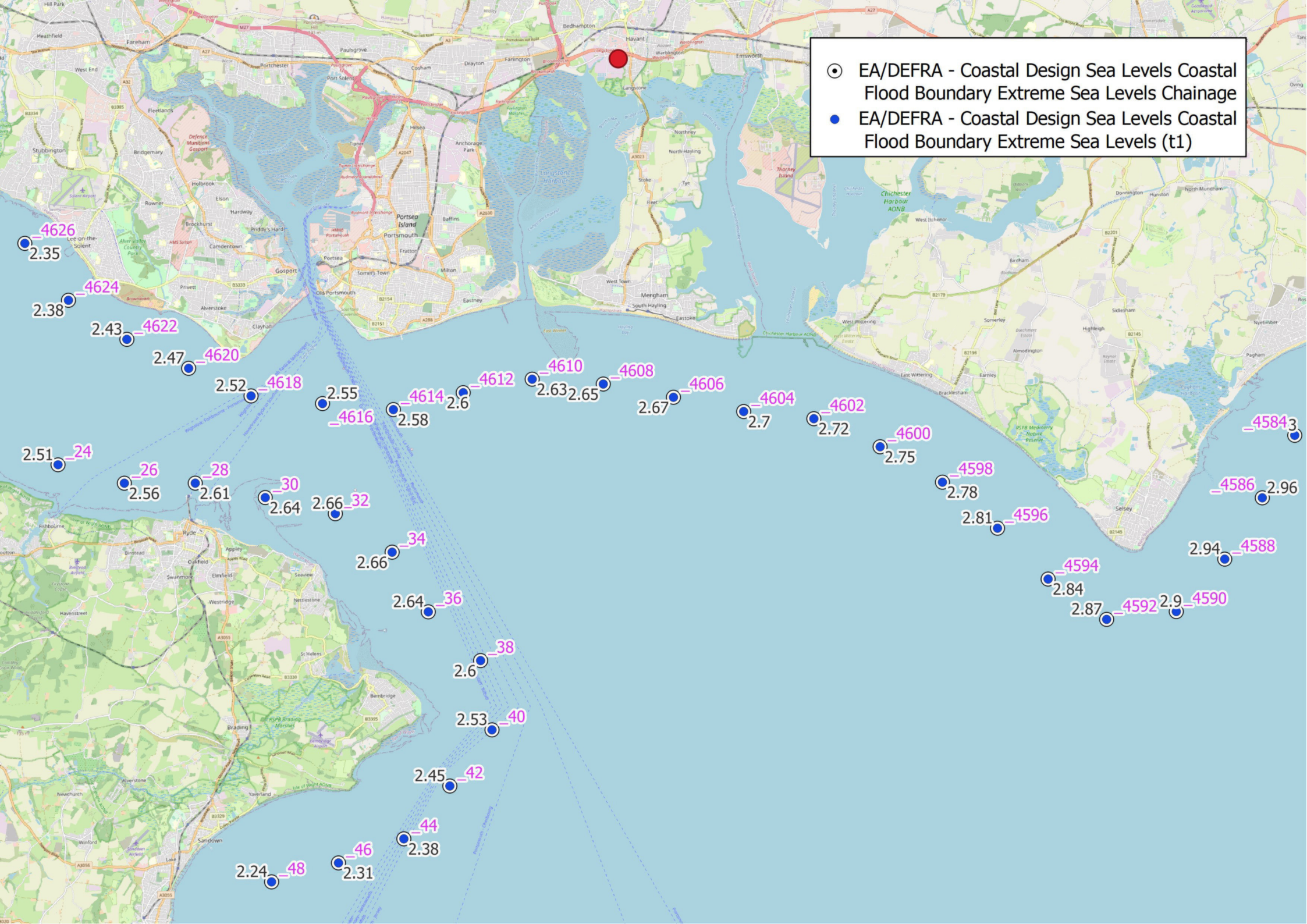
Asset ID	Asset sub-type	Length	Maintainer	Current condition	Standard of Protection	Date of last inspection
23400	Simple Culvert	72.33	Private individual, Company or Charity		1:40	01/06/2022
49555	Simple Culvert	57.46	Private individual, Company or Charity		1:40	31/05/2022
97827	Natural High Ground	159.75	Private individual, Company or Charity		1:40	31/05/2022
49054	Natural High Ground	49.45	Unknown		1:40	31/05/2022
49982	Natural High Ground	13.35	Unknown		1:40	01/07/2022
113663	Natural High Ground	384.67	Private individual, Company or Charity		1:20	31/05/2022
23402	Natural High Ground	54.56	Unknown		1:40	31/05/2022
49053	Natural High Ground	141.82	Private individual, Company or Charity		1:40	01/06/2022
49553	Natural High Ground	11.91	Private individual, Company or Charity		1:40	31/05/2022
19073	Natural High Ground	85.8	Private individual, Company or Charity		1:40	31/05/2022
18839	Natural High Ground	19.98	Unknown		1:40	01/07/2022
104218	Natural High Ground	907.14	Private individual, Company or Charity		1:40	01/07/2022
104219	Natural High Ground	933.13	Private individual, Company or Charity		1:40	01/07/2022
171803	Natural High Ground	44.15	Unknown		1:40	01/07/2022
22853	Natural High Ground	109.52	Private individual, Company or Charity		1:40	01/07/2022
119545	Embankment	84.76	Private individual, Company or Charity		1:40	31/05/2022
23310	Natural High Ground	10.33	Unknown		1:40	31/05/2022
49554	Wall	150.85	Private individual, Company or Charity		1:40	31/05/2022
49983	Natural High Ground	350.8	Private individual, Company or Charity		1:40	01/07/2022
113661	Natural High Ground	382.89	Private individual, Company or Charity		1:20	31/05/2022
19072	Natural High Ground	148.86	Private individual, Company or Charity		1:40	01/06/2022
22854	Natural High Ground	205.99	Unknown		1:40	01/07/2022
23309	Natural High Ground	41.94	Unknown		1:40	01/06/2022


EA/DEFRA - Coastal Design Sea Levels Coastal Flood Boundary Extreme Sea Levels Chainage
EA/DEFRA - Coastal Design Sea Levels Coastal Flood Boundary Extreme Sea Levels (t1)
4626
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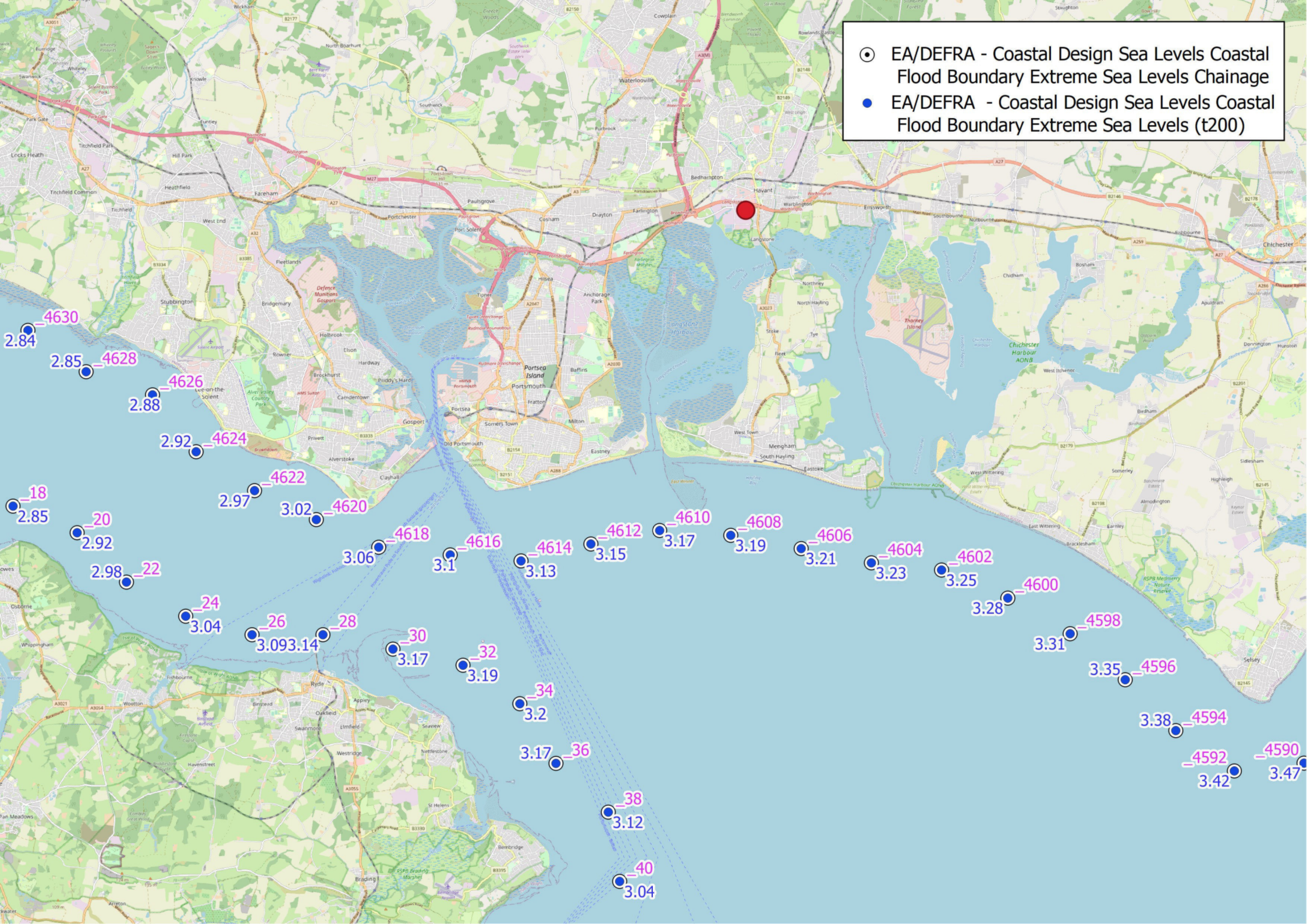
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EA/DEFRA - Coastal Design Sea Levels Coastal Flood Boundary Extreme Sea Levels (t200)
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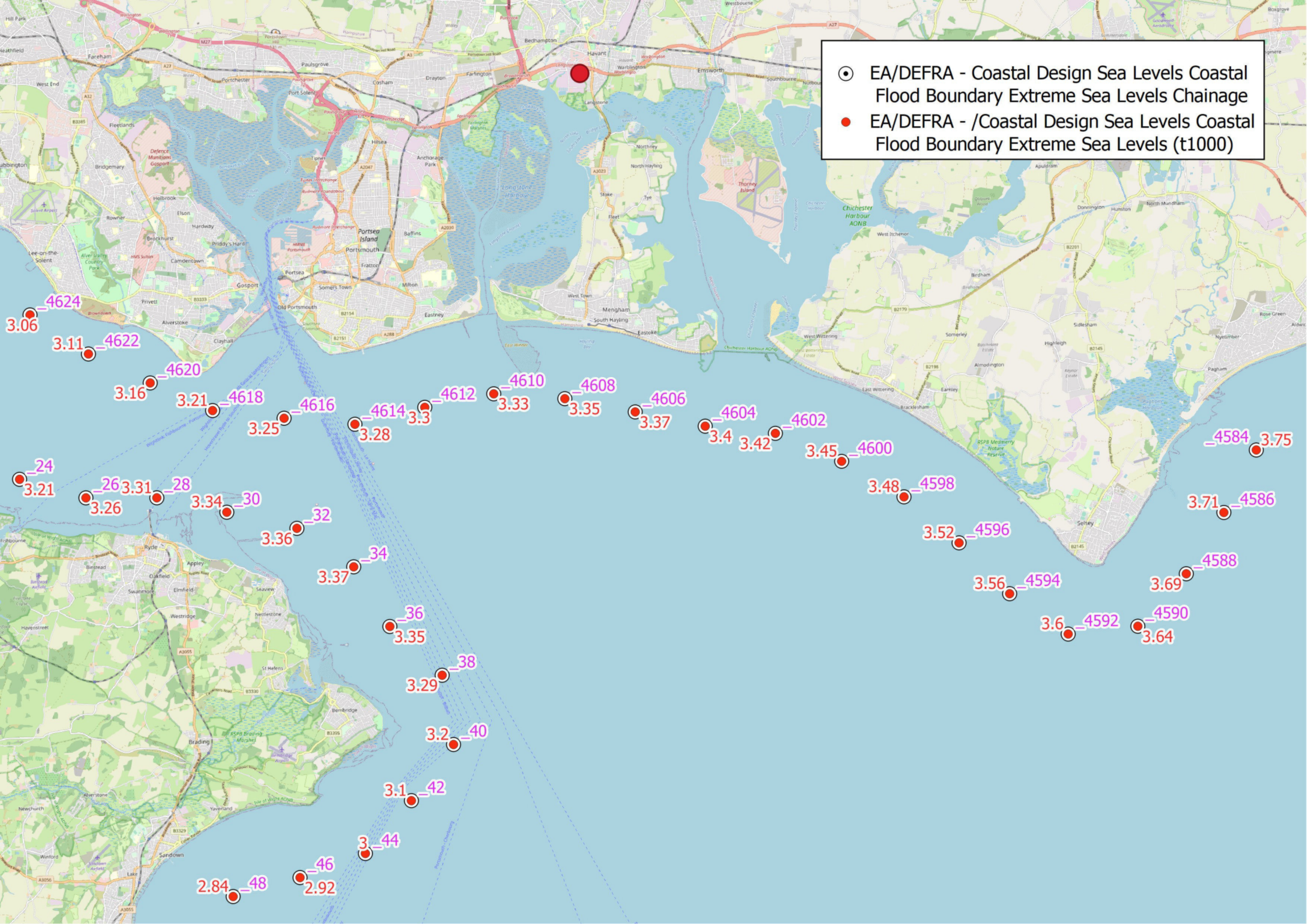
EA/DEFRA - Coastal Design Sea Levels Coastal Flood Boundary Extreme Sea Levels Chainage
EA/DEFRA - /Coastal Design Sea Levels Coastal Flood Boundary Extreme Sea Levels (t1000)
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Appendix F – Flood Response Plan.

Langstone Park Masterplan

Flood Response Plan

Project Ref: NSB/8317

October 2022

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Flood Response Plan

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1.1 Introduction
1.2 Aim
1.3 Plan Implementation Phases
Organisation
1.4 Emergency Notification System
1.5 Action Prior to Implementation of the Plan
1.6 Plan Maintenance and Review

1.0 Introduction

1.1 The flood response plan has been prepared for monitoring and responding to emergency conditions arising from high water levels on the Mill Stream in line with Environment Agency emergency response plan requirements. The plan considers a variety of stages and is triggered by information provided by The Environment Agency.

Aim

1.2 The aim of the plan is to prevent loss of life, and to minimize damage to and loss of property resulting from flooding due to high water levels on the above EA Main River.

Plan Implementation Phases

Pre- Flooding Activities

1.3 The implementation of the Flood Response Plan may be triggered by observed rising water, snow survey reports, weather forecasts, and/or Environment Agency reports.

All tenants are to be required to sign up the Environment Agency 'Flood Warning Direct' Service. This can be done by telephoning to register with the local Environment Agency office, or using the EA website.
The EA Floodline number is: 0845 988 1188.
Their website is: www.environment-agency.gov.uk
All occupants must have a designated person to notify staff; and if possible, visitors to the site, if known.

Advance Warnings

Warnings of potential flooding and flood levels can be obtained from the Environment Agencies Website. (See above)

Flood Watch Level

Based on specific water and/or warnings. Flooding at low-lying land and roads can be expected in the Area. Members of the public are reminded to be prepared.

All tenants, occupants and visitors to the site should be aware of media coverage of potential flood events.
They should all be given to appropriate contact telephone numbers to check travel arrangements for any journey during periods of potential flooding events.

Flood Warning Level

This is the next stage up. Flooding of homes and business as expected in the area and occupiers of the buildings should maintain regular contact with Local Authorities, and the Environment Agency to be appraised of any local flooding around the development, and national / local media news channels.

Tenants should make employees and visitors aware of the contact telephone numbers above.
The designated person should regularly remind all personnel of these requirements.

Severe Flood Warning

If severe flooding is expected in the area of the development, then before travelling to visit for work or other business to the site should check on the contact number prior to travel.

There is extreme danger to life and property, so if people can be warned not to travel then this should be the first choice. Not travelling is the safe option at the early stages.

If people are on site during a severe event, the occupiers should advise all to vacate as soon as they receive the Flood Warning. The safe egress route will be via the site entrance and public roads prior to an event and during early stages of an event.

If people are on site during a severe event and do not leave when the Flood Warning is given then they should be advised to take safe refuge at first floor level.

If people are stranded, they or the occupiers should alert the emergency services and await rescue. They should not attempt to leave in unsafe conditions. The safe egress in very severe conditions may be with the assistance of the emergency services.

All Clear

Flood Watch or Warnings are no longer in force in this area.

Emergency Notification

1.4 Upon receipt of a flood warning, it is the responsibility of the designated official to notify their staff, and impending emergency procedures.

An Emergency Notification List and Emergency Public Information Plan is to be provided to all occupiers of the building units.

Action Prior to Implementation of The Plan

1.5 When a flood hazard exists, employees should take such action(s) as required to protect lives and property in their building.

It is the responsibility of the owners of the development to ensure that the new on-site surface water drainage system is maintained and operational in line with the maintenance regime identified within the Flood Risk Assessment Document.

Plan Maintenance and Review

1.6 This plan will be reviewed annually and /or after any flood warning event where necessary, revised by a meeting(s) and liaison with the Environment Agency.

It is the responsibility of each person, agency, service, or department named within this emergency plan to notify the Administrative Officer forthwith, of any revisions or administrative changes.

- Plan indicating safe refuge points and route of safe access and egress.
- Environment Agency flood line telephone number:
  0845 988 1188
- Environment Agency website address:
  www.environment-agency.gov.uk