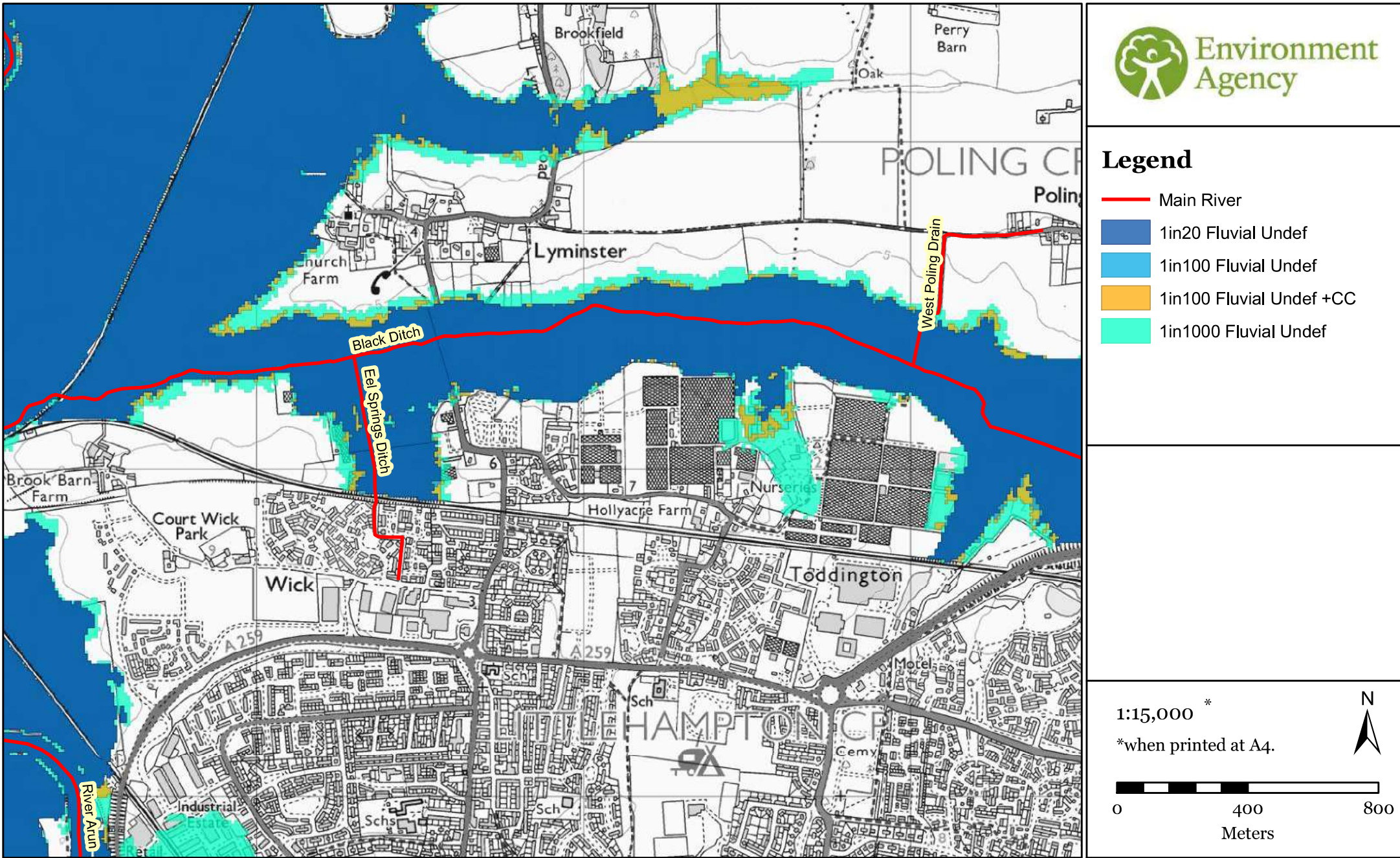


Fluvial Undefended Modelled Outlines Centered on **Black Ditch North of Littlehampton** -
Created **11/04/2016** [Ref: SSD/7430]



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Modelled Levels and Depths taken from 2D Black Ditch submodel from 2010 Infoworks Lower Tidal River Arun Strategy Model

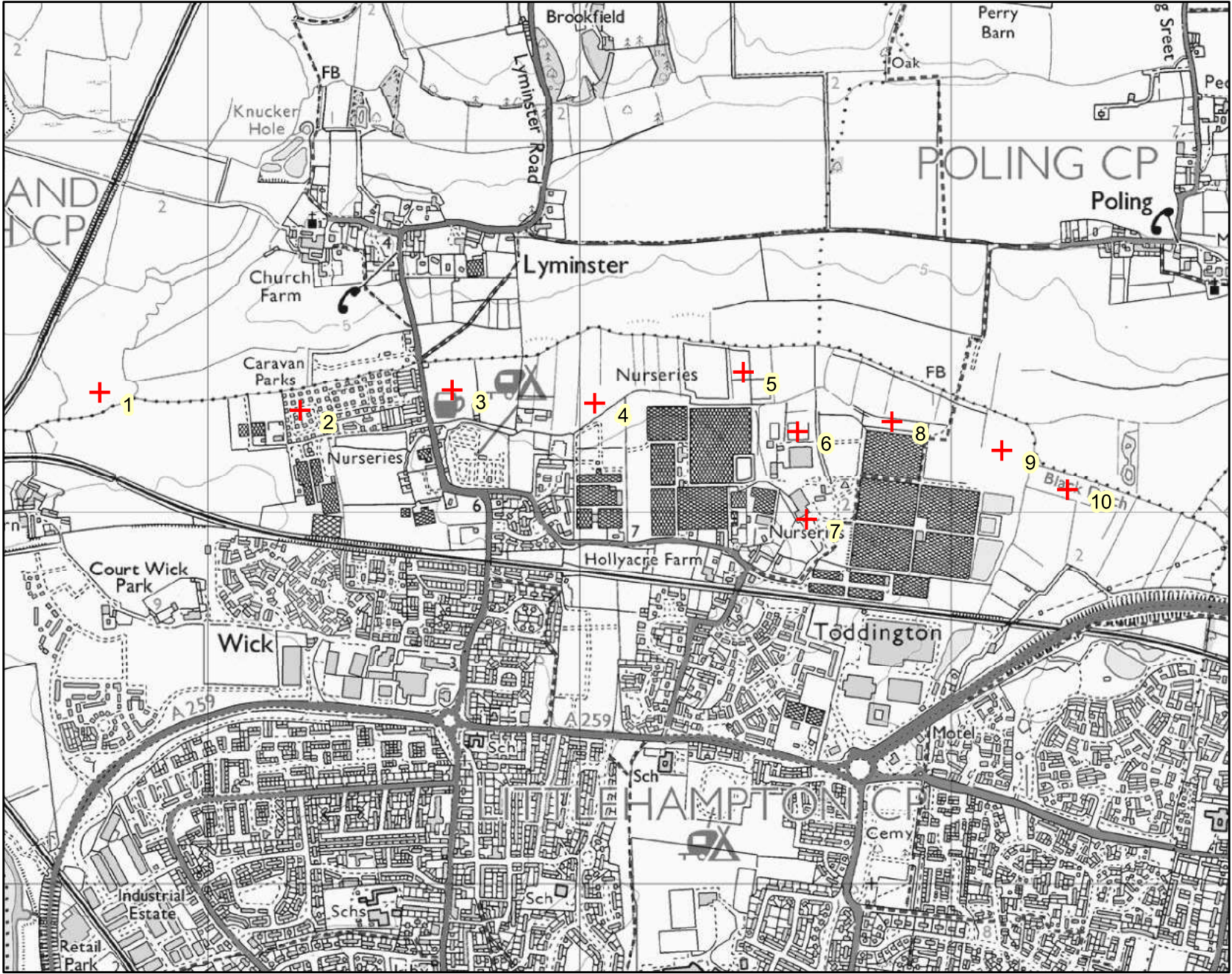
Node Point	Easting	Northing	Tidal depths taken from 2010 Infoworks model [m]									
			UNDEFENDED					DEFENDED				
			5% AEP [1in20yr]	0.5% AEP [1in200yr]	0.1% AEP [1in1000yr]	0.5% AEP [1in200yr] +CC	5% AEP [1in20yr]	1.33% AEP [1in75yr]	0.5% AEP [1in200yr]	0.1% AEP [1in1000yr]	0.5% AEP [1in200yr] +CC	
1	501711	104322	1.15	1.29	1.31	1.78	Null	Null	Null	Null	1.91	
2	502250	104279	0.88	1.02	1.04	1.52	Null	Null	Null	Null	1.66	
3	502658	104331	0.86	1.00	1.03	1.51	Null	Null	Null	Null	1.65	
4	503039	104294	1.20	1.34	1.37	1.86	Null	Null	Null	Null	1.99	
5	503441	104377	1.04	1.18	1.21	1.69	Null	Null	Null	Null	1.81	
6	503594	104215	0.26	0.41	0.43	1.46	Null	Null	Null	Null	1.21	
7	503612	103984	Null	0.44	0.56	1.11	Null	Null	Null	Null	1.34	
8	503847	104240	0.25	0.40	0.42	0.91	Null	Null	Null	Null	0.68	
9	504142	104163	0.89	1.03	1.06	1.54	Null	Null	Null	Null	1.67	
10	504319	104063	0.74	0.89	0.91	1.40	Null	Null	Null	Null	1.53	

Node Point	Easting	Northing	Tidal levels taken from 2010 Infoworks model [mAOD]									
			UNDEFENDED					DEFENDED				
			5% AEP [1in20yr]	0.5% AEP [1in200yr]	0.1% AEP [1in1000yr]	0.5% AEP [1in200yr] +CC	5% AEP [1in20yr]	1.33% AEP [1in75yr]	0.5% AEP [1in200yr]	0.1% AEP [1in1000yr]	0.5% AEP [1in200yr] +CC	
1	501711	104322	2.36	2.50	2.53	2.99	Null	Null	Null	Null	3.13	
2	502250	104279	2.34	2.49	2.51	2.99	Null	Null	Null	Null	3.13	
3	502658	104331	2.34	2.48	2.51	2.99	Null	Null	Null	Null	3.13	
4	503039	104294	2.34	2.48	2.51	2.99	Null	Null	Null	Null	3.13	
5	503441	104377	2.34	2.48	2.51	2.99	Null	Null	Null	Null	3.13	
6	503594	104215	2.34	2.48	2.51	2.99	Null	Null	Null	Null	3.13	
7	503612	103984	Null	2.32	2.44	2.99	Null	Null	Null	Null	3.13	
8	503847	104240	2.34	2.48	2.51	2.99	Null	Null	Null	Null	3.13	
9	504142	104163	2.34	2.49	2.51	2.99	Null	Null	Null	Null	3.13	
10	504319	104063	2.34	2.49	2.51	2.99	Null	Null	Null	Null	3.13	

Node Point	Easting	Northing	Fluvial depths taken from 2010 Infoworks model [m]									
			UNDEFENDED					DEFENDED				
			5% AEP [1in20yr]	1% AEP [1in100yr]	0.1% AEP [1in1000yr]	1% AEP [1in100yr] +CC 2115	5% AEP [1in20yr]	1.33% AEP [1in75yr]	1% AEP [1in100yr]	0.1% AEP [1in1000yr]	1% AEP [1in100yr] +CC 2115	
1	501711	104322	0.95	1.00	1.69	1.26	0.35	0.42	0.43	1.24	0.58	
2	502250	104279	0.70	0.75	1.43	1.00	0.04	0.11	0.12	0.93	0.27	
3	502658	104331	0.69	0.74	1.42	1.00	0.01	0.14	0.16	0.81	0.25	
4	503039	104294	1.03	1.08	1.76	1.34	0.48	0.61	0.75	1.39	0.83	
5	503441	104377	0.87	0.92	1.61	1.18	0.18	0.32	0.46	1.11	0.54	
6	503594	104215	0.05	0.10	0.79	0.36	Null	Null	Null	0.23	Null	
7	503612	103984	Null	Null	1.12	0.41	Null	Null	Null	Null	Null	
8	503847	104240	Null	Null	Null	Null	Null	Null	Null	Null	Null	
9	504142	104163	0.71	0.77	1.45	1.02	Null	0.13	0.17	0.79	0.25	
10	504319	104063	0.57	0.62	1.30	0.88	0.02	0.15	0.17	0.81	0.26	

Node Point	Easting	Northing	Fluvial levels taken from 2010 Infoworks model [mAOD]									
			UNDEFENDED					DEFENDED				
			5% AEP [1in20yr]	1% AEP [1in100yr]	0.1% AEP [1in1000yr]	1% AEP [1in100yr] +CC 2115	5% AEP [1in20yr]	1.33% AEP [1in75yr]	1% AEP [1in100yr]	0.1% AEP [1in1000yr]	1% AEP [1in100yr] +CC 2115	
1	501711	104322	2.16	2.21	2.90	2.47	1.49	1.56	1.57	2.38	1.72	
2	502250	104279	2.16	2.21	2.90	2.47	1.49	1.56	1.57	2.38	1.72	
3	502658	104331	2.17	2.22	2.90	2.47	1.58	1.71	1.74	2.38	1.82	
4	503039	104294	2.17	2.22	2.90	2.47	1.58	1.72	1.74	2.38	1.82	
5	503441	104377	2.17	2.22	2.90	2.47	1.59	1.72	1.74	2.38	1.83	
6	503594	104215	2.17	2.22	2.90	2.47	Null	Null	Null	2.38	Null	
7	503612	103984	Null	Null	2.90	2.20	Null	Null	Null	Null	Null	
8	503847	104240	Null	Null	Null	Null	Null	Null	Null	Null	Null	
9	504142	104163	2.17	2.22	2.90	2.47	Null	1.72	1.75	2.38	1.83	
10	504319	104063	2.17	2.22	2.90	2.47	1.59	1.72	1.75	2.38	1.83	

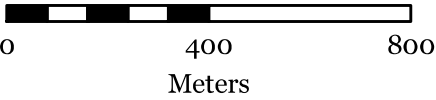
2D Node Points from 2010 Infoworks Model Centered on **Black Ditch North of Littlehampton** -
Created **11/04/2016** [Ref: SSD/7430]



Legend

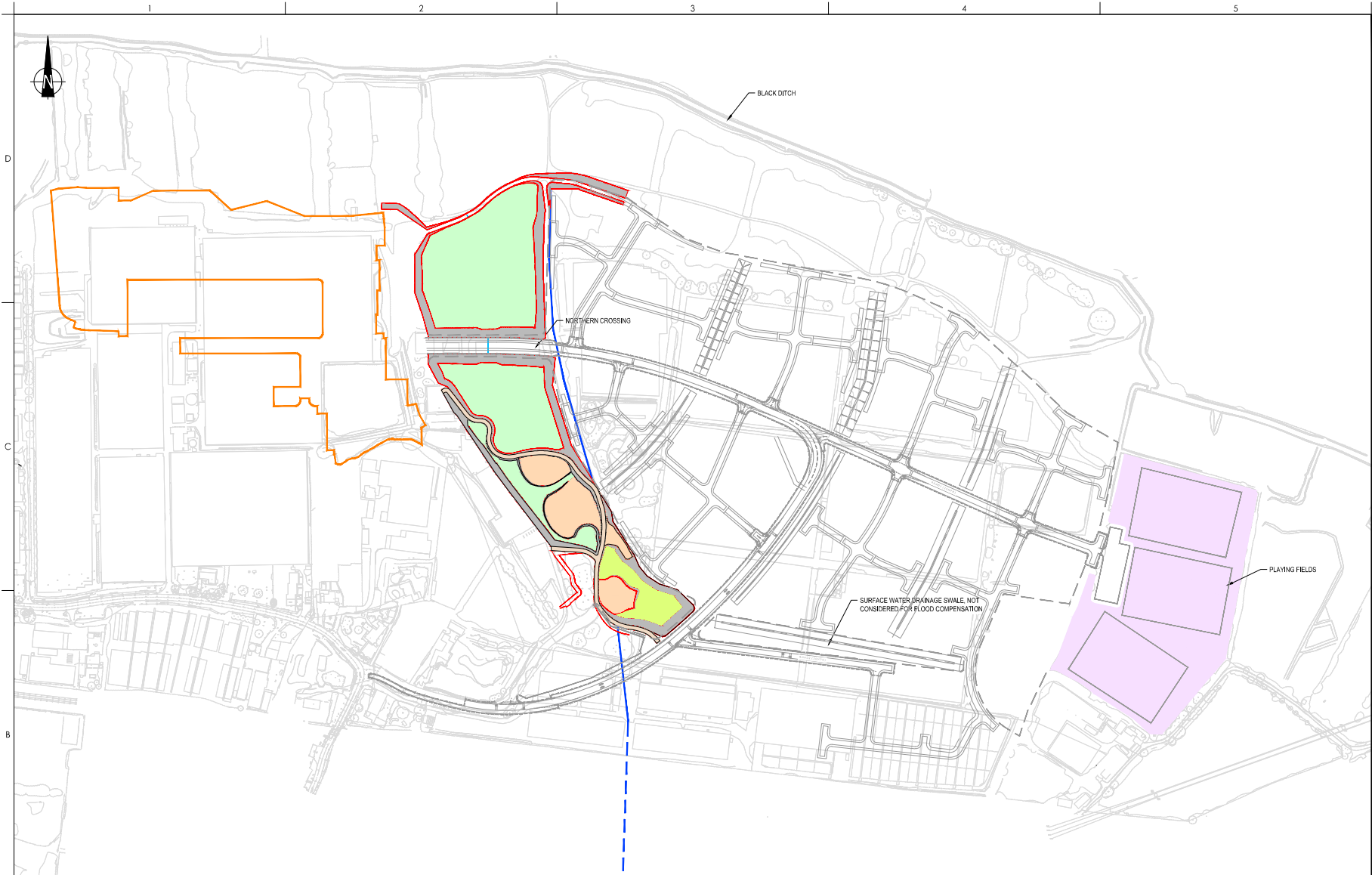
+ 1 Node Point

1:15,000 *
*when printed at A4.



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APPENDIX P: Stantec Flood Compensation Drawing





Stantec UK Limited

www.stantec.com/uk

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- any errors or omissions shall be reported to Stantec without delay.
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Notes

UTILITIES NOTE: The position of any existing public or private sewers, utility services, plant or apparatus shown on this drawing is believed to be correct, but no warranty to this is expressed or implied. Other such plant or apparatus may also be present but not shown. The Contractor is therefore advised to undertake their own investigation where the presence of any existing sewers, services, plant or apparatus may affect their operations.

C	UPDATED WETLAND AREAS	CS	29/09/21
3	PLANNING USE	PCS	20/12/18
A	Issued/Revision	By	App'd
		SWH	AM
		Dwn	20/09/20
		Chd	YYYYMMDD

Issue Status

FOR PLANNING

This document is suitable only for the purpose noted above. Use of this document for any other purpose is not permitted.

Client/Project Logo

Client/Project
PERSIMMON HOMES
THAMES WATER

Title
NORTH LITTLEHAMPTON
CENTRAL WETLAND AREA

FLOOD COMPENSATION

Project No. 39878 Scale 1:2000

Revision C Drawing No. 4001/008

- KEY**

 - PROPOSED TOP OF GRADING
 - PROPOSED 1 IN 3 SLOPE
 - LOWER CWA COMPENSATION PLATFORM (AVERAGE LEVEL 1.38m AOD)
 - UPPER CWA COMPENSATION PLATFORM (AVERAGE LEVEL 1.80m AOD)
 - TREE PROTECTION PLATFORM
 - PLAYING FIELDS - TO BE SET AT A OF 1.54m AOD AND GRADED TO EXISTING.
 - FOOTPATHS THROUGH CWA
 - INDICATIVE ALIGNMENT OF CWA DRAINAGE DITCH
 - PREVIOUSLY CONSENTED BOUNDARY (PARCELS C1, C2, B2 AND B4)
 - SURVEYED ALIGNMENT OF SOUTHERN WATER MAIN
- NOTES**

 - BASED ON MASTERPLAN INFORMATION PROVIDED BY PERSIMMON DRAWING No. 518_100 DATED APRIL 2017.
 - CENTRAL WETLAND AREA (CWA) GROUND LEVELS ARE BASED ON 2016 FLOOD LEVELS TAKEN FROM PRODUCT 4 DATA PROVIDED BY THE ENVIRONMENT AGENCY REF: SS07430 DATED 11.04.2016.
 - GROUND LEVELS WITHIN CWA TO SLOPE AT A GRADIENT NO STEEPER THAN 1:200 FROM TOE OF EMBANKMENT TO CENTRAL DRAINAGE DITCH.
 - PROPOSED FOOTPATH LAYOUT PROVIDED BY WHITE YOUNG GREEN DRAWING No. A088461 sk.CWA.2018 DATED JULY 2018.
 - PROPOSED ROAD LAYOUT PROVIDED BY MAYER BROWN DRAWING No. MSK180403-LP2 DATED JULY 2018.
 - SEE PBA DRAWINGS 35944/1507003 AND 35944/1507010 FOR DETAILS OF NORTHERN AND SOUTHERN CWA CROSSINGS.
 - SEE MAYER BROWN DRAWINGS FOR DETAILS OF PLATFORM LEVELS AND ON-PLATFORM DRAINAGE.
 - SEE WYG DRAWINGS FOR LANDSCAPING DETAILS THROUGH CWA.

FLOOD STORAGE ANALYSIS				
LEVEL BAND (mm BELOW 1 IN 100 YEAR FLOOD LEVEL)	EXISTING FLOOD STORAGE (m³)	PROPOSED FLOOD STORAGE (m³)	NET FLOOD STORAGE BALANCE PER BAND (m³)	CUMULATIVE FLOOD STORAGE BALANCE (m³)
0-100	36991.04	33977.63	-2113.41	328.13
100-200	34821.27	33416.18	-1405.09	2436.44
200-300	33071.6	32623.46	-1448.14	3986.55
300-400	32816.48	32227.67	-1588.81	4987.67
400-500	31959.05	31566.05	-393	5575.46
500-600	30862.48	30862.25	-0.23	5538.46
600-700	29255.22	29756.2	500.98	4736.17
700-800	25536.74	27711.09	2172.35	3237.19
800-900	20841.66	22587.61	1245.95	1064.94
900-1000	15266.62	16146.29	879.67	-181.11
1000-1100	9519.79	8873	-646.79	-1062.78
1100-1200	4667.47	4405.73	-261.74	-1545.99
1200-1300	1886.89	1775.41	-111.48	-1542.5
1300-1400	655.88	585.21	-70.67	-1577

