

MetroWest*

Portishead Branch Line (MetroWest Phase 1)

TR040011

Applicant: North Somerset District Council 5.6, Flood Risk Assessment, Part 2 of 17

Appendix B Part 1 of 2, Environment Agency flood maps and modelled flood levels

information (Portishead to Pill)

The Infrastructure Planning (Applications: Prescribed Forms and Procedure)

Regulations 2009, regulation 5(2)(e)

Planning Act 2008

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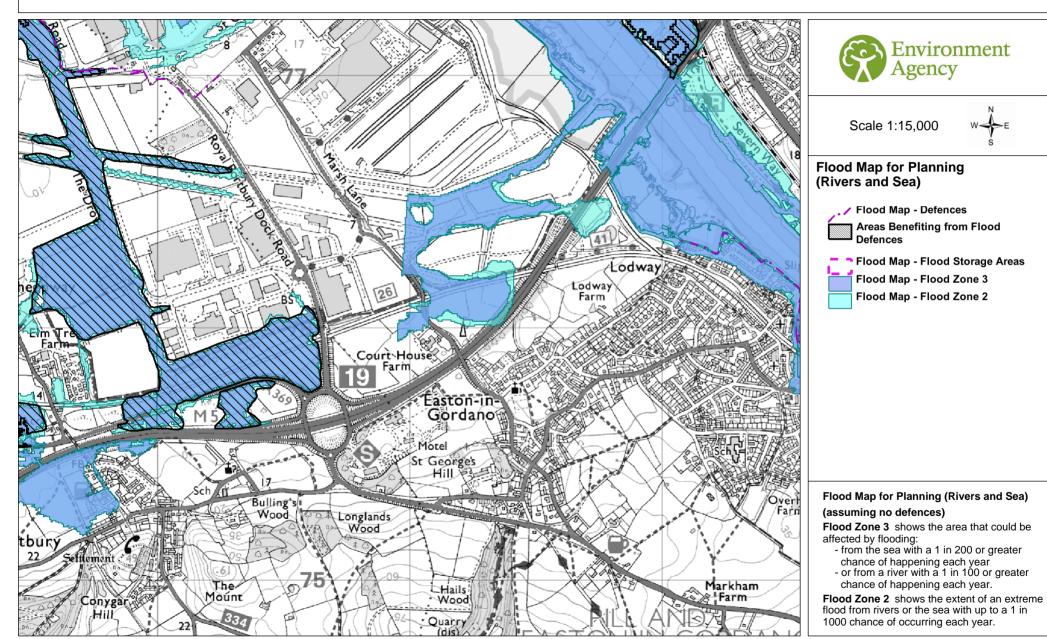
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Document history

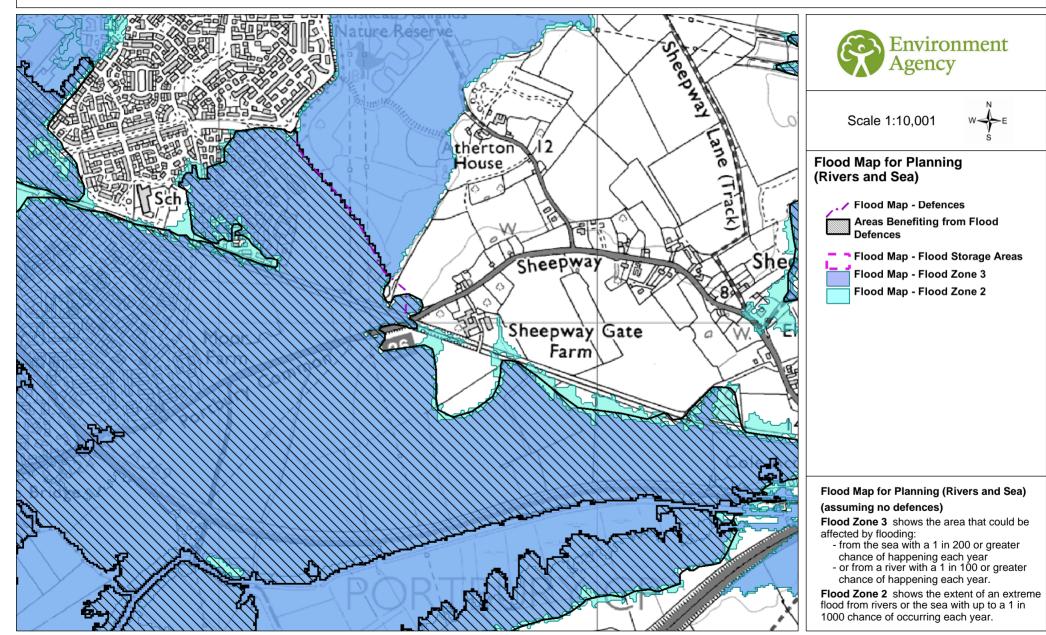
Project	Portishead Branch Line (MetroWest Phase 1) Development Consent Order Scheme
Planning Inspectorate Scheme Reference	TR040011
Volume and Application Document Reference	5, 5.6
Document title	Flood Risk Assessment, Part 2 of 17
	Appendix B Part 1 of 2, Environment Agency flood maps and modelled flood levels information: Portishead to Pill
Regulation Number	Regulation 5(2)(e)
Applicant	North Somerset District Council
Lead Author	RB at CH2M

Version	Date	Status of Version
Rev: 01	12/11/19	Application Issue

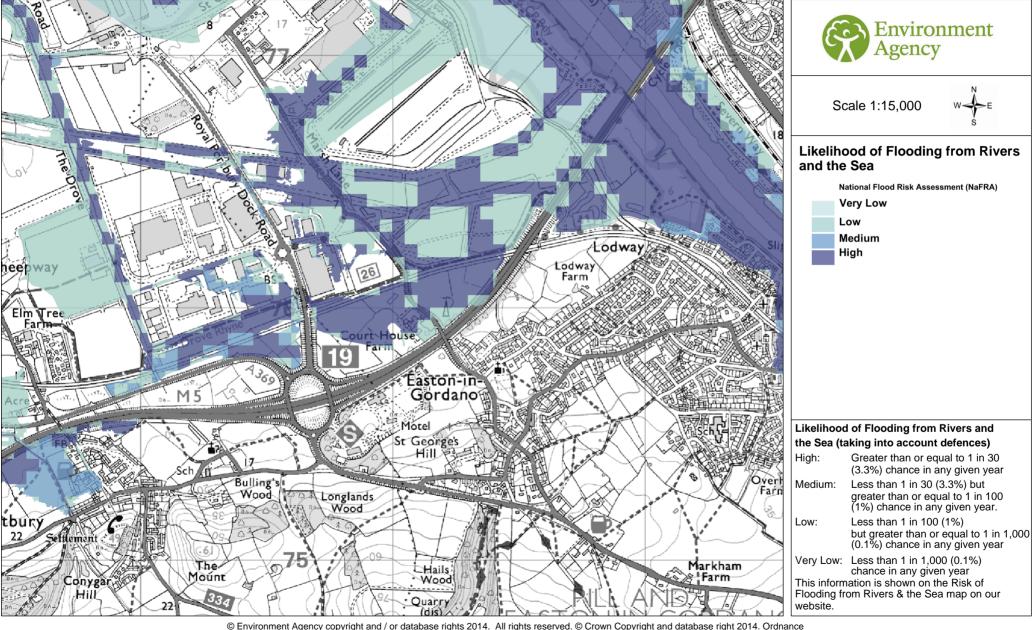
SW/6012 - map centred on ST 51000 76000 - created 02/05/2014



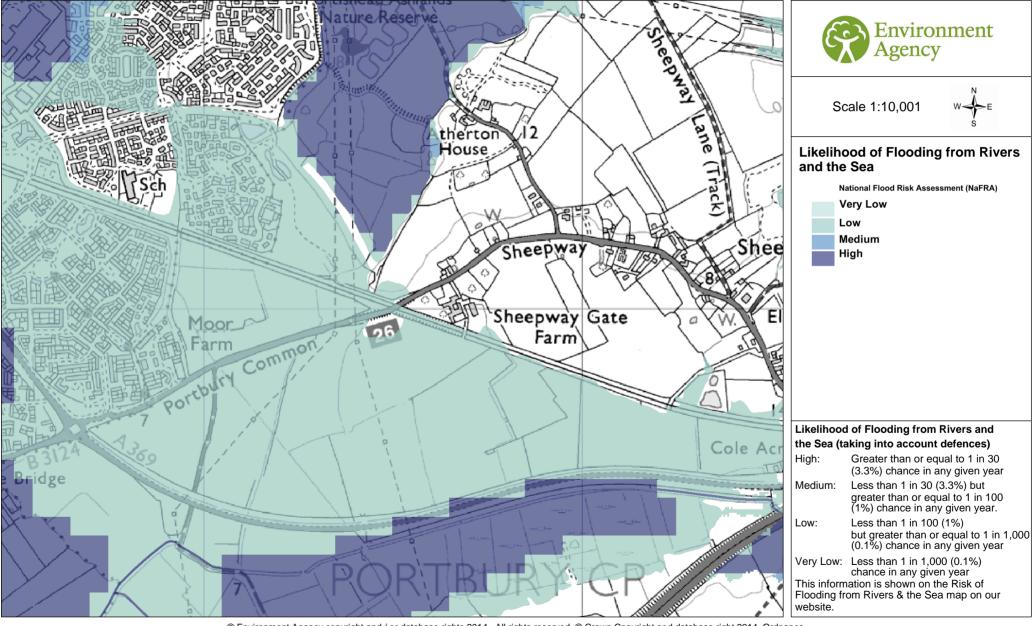
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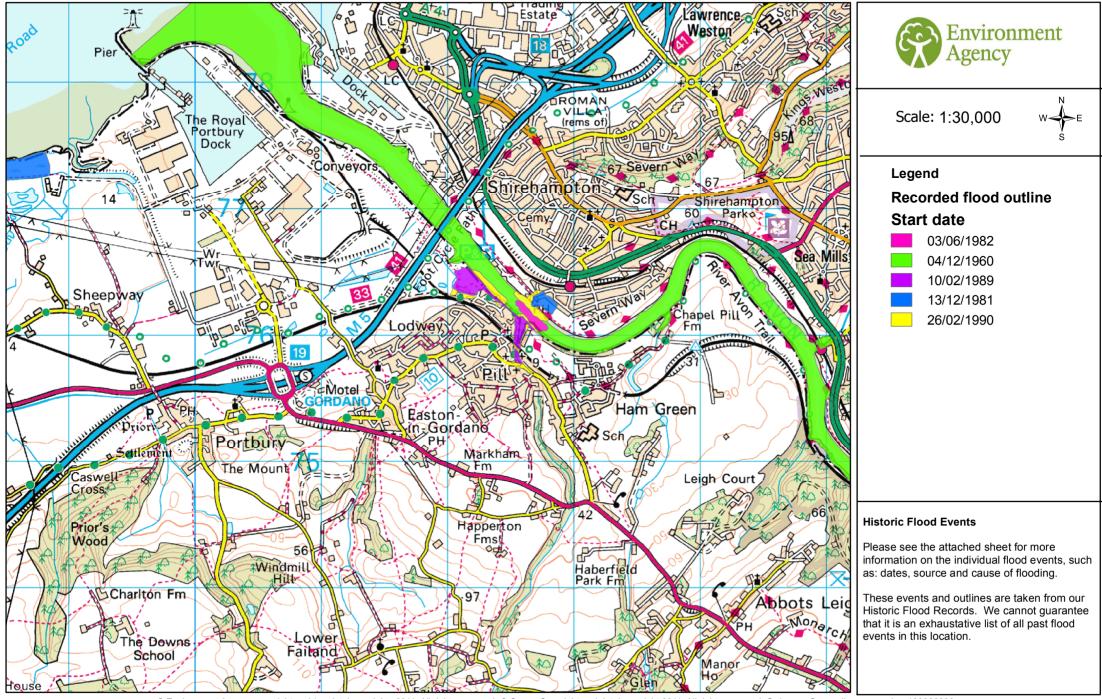
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SW/6012 - map centred on ST 48500 76000 - created 02/05/2014



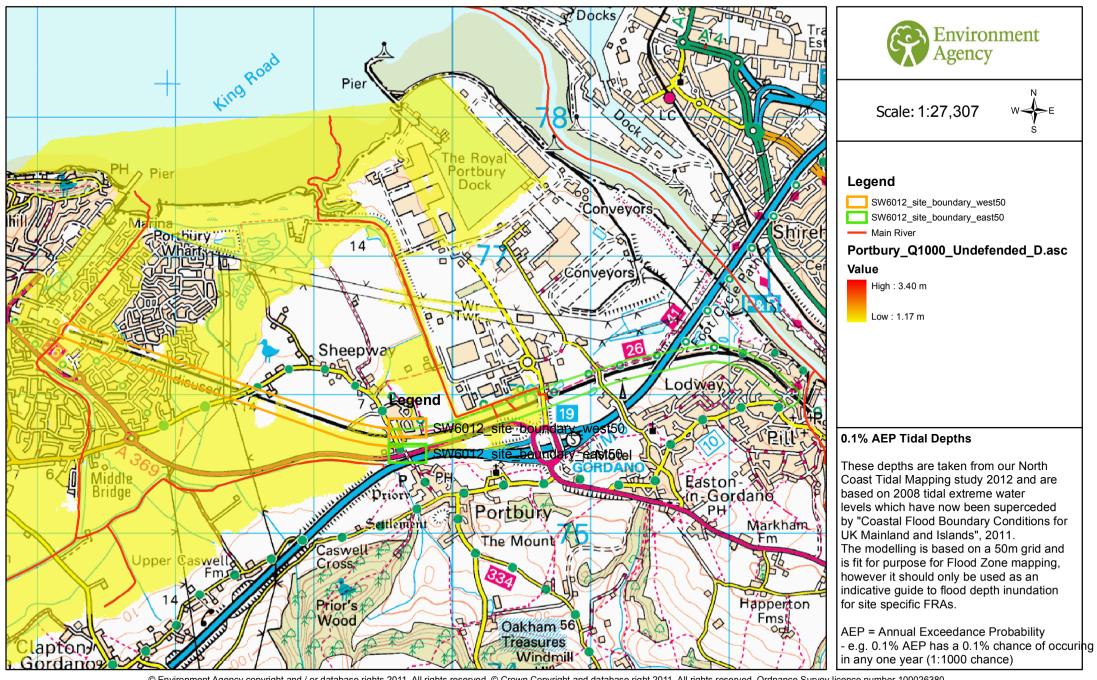
Historic Flood Events centred on ST 51800 75900 - created 02/05/2014 Ref: SW/6012



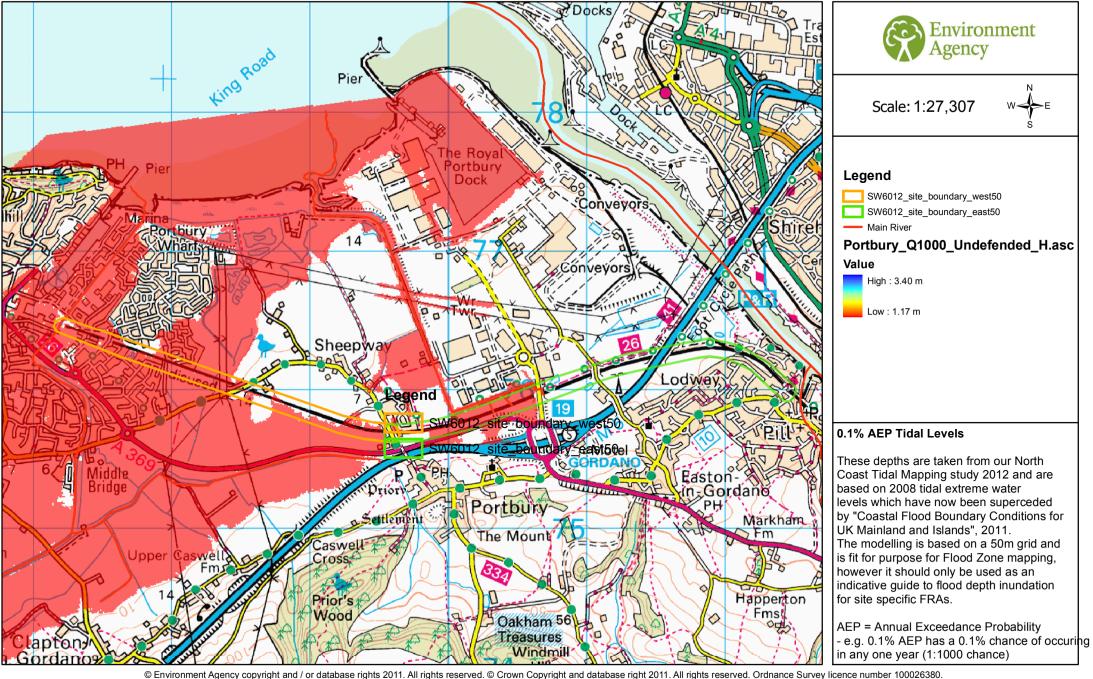
SW6012

		Flood Event				
Start Date	End Date	Code	Name	Source of Flooding	Cause of Flooding	
				Historic flood map ST57SE shows Avon just out of bank from Clifton		channel capacity exceeded (no raised
04/12/1960	05/12/1960	22444	EA112_Clifton_Suspension_Bristol	Suspension Bridge to M5 road bridge. No record of Properties affected.	main river	defences)
				Visual Historic Map ST57NW shows minor flooding from from around M5 to		channel capacity exceeded (no raised
04/12/1960	05/12/1960	22287	EA112_Avon_M5_Avonmouth	Avonmouth, no record of flooding to Industrial and or Residential properties.	main river	defences)
				Bristol City Engineers report reported location of properties flooded. Ref		channel capacity exceeded (no raised
13/12/1981	13/12/1981	26073	EA112_Avon_Shirehampton_1981	BARA flood event file 008	main river	defences)
				Extent of flooding of land and Paper Mill/paper bag factory is based on		
				engineers site visit report and flood event outline of the 1981 Flood Event at		
13/12/1981	15/12/1981	25427	EA112_Coastal_Portbury_1981	the time.	unknown	overtopping of defences
				Bristol City engineer report indicated properties including The Lamplighters		channel capacity exceeded (no raised
03/06/1982	03/06/1982	15900	EA112_Tidal_Shirehampton_Station Road	PH flooded in Station Road	main river	defences)
				Drawing 2011/11/004 located in BARA Flood Event File 010 and CDView,		
				shows the extent of the flooding. Note that only 3 properties were confirmed		
				as flooded but numerous others indicated as vulnerable		
10/02/1989	11/02/1989	26368	EA112_Avon_Pill_1989		main river	overtopping of defences
				Drawing 2011/11/043 identifies the areas of Pill - Avon Road, Mariners		
				Parade, Pump Square, Bank Place and Watchouse Road identified as		
26/02/1990	27/02/1990	26380	EA112_Feb_Avon_Pill_1990	flooded.	main river	overtopping of defences
	l			Consultant report indicated extent of flooding including flood levels at no's 23		channel capacity exceeded (no raised
26/02/1990	28/02/1990	24853	EA112_PortburyDitch_Portishead	and 24 Victoria Square. File Ref Portbury Ditch catchment box	main river	defences)
				Drawing 2011/11/043 identifies properties flooded in Station Road plus the		
				Lamplighters PH at Shirehampton, Bristol following NRA staff flood	1	
26/02/1990	27/02/1990	24854	EA112_Feb_Avon_Shirehampton	reconnaissance	main river	overtopping of defences

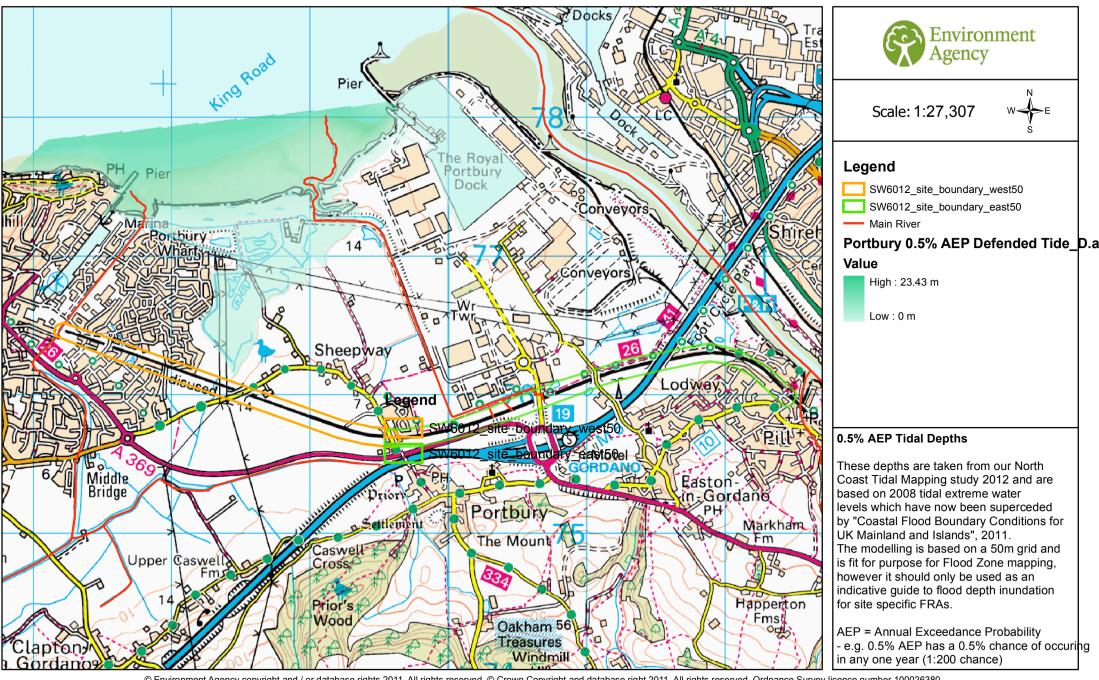
0.1% AEP (Undefended) Tidal Depth Grid centred on Portbury (Ref SW/6012) created on 27/05/2014



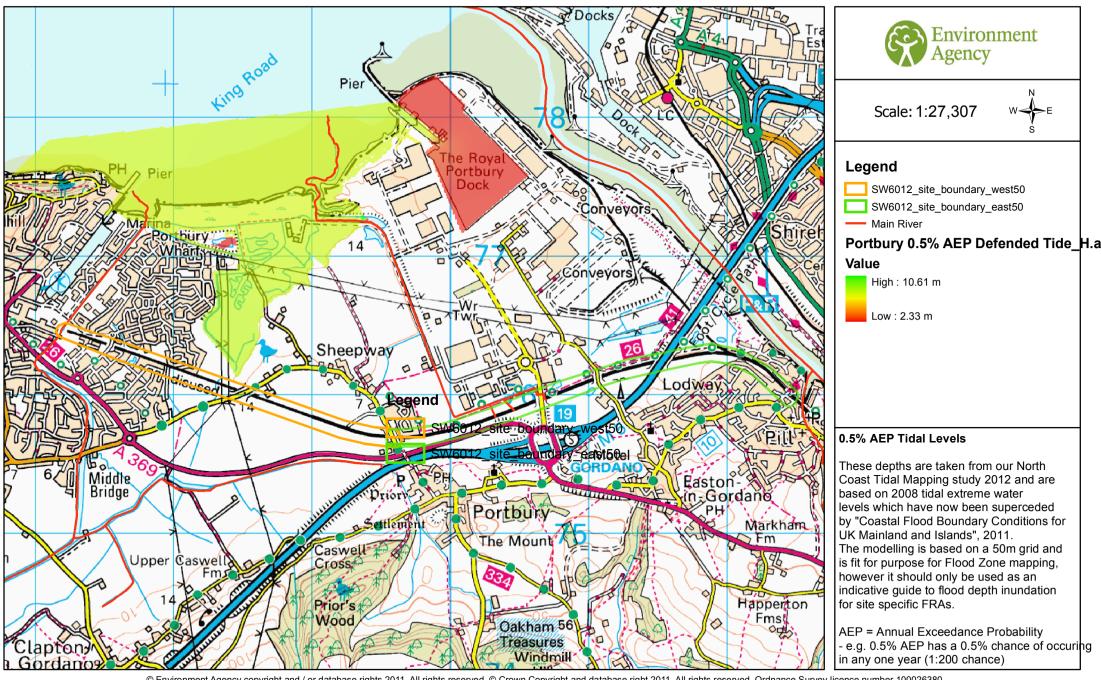
0.1% AEP (Undefended) Tidal Level Grid centred on Portbury (Ref SW/6012) created on 27/05/2014



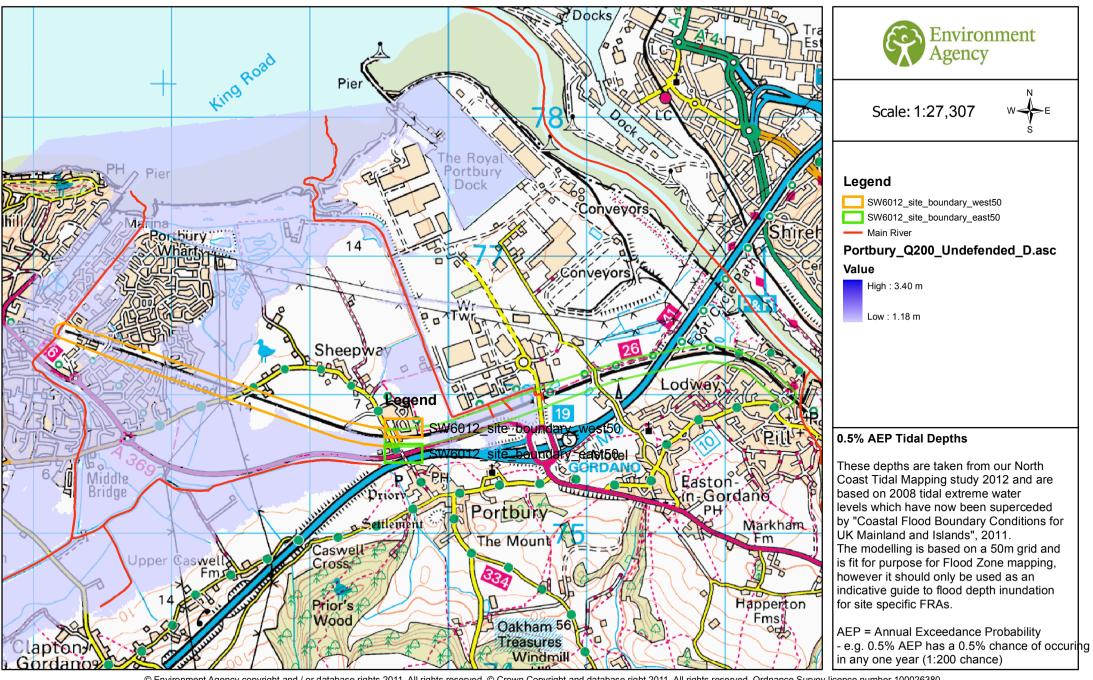
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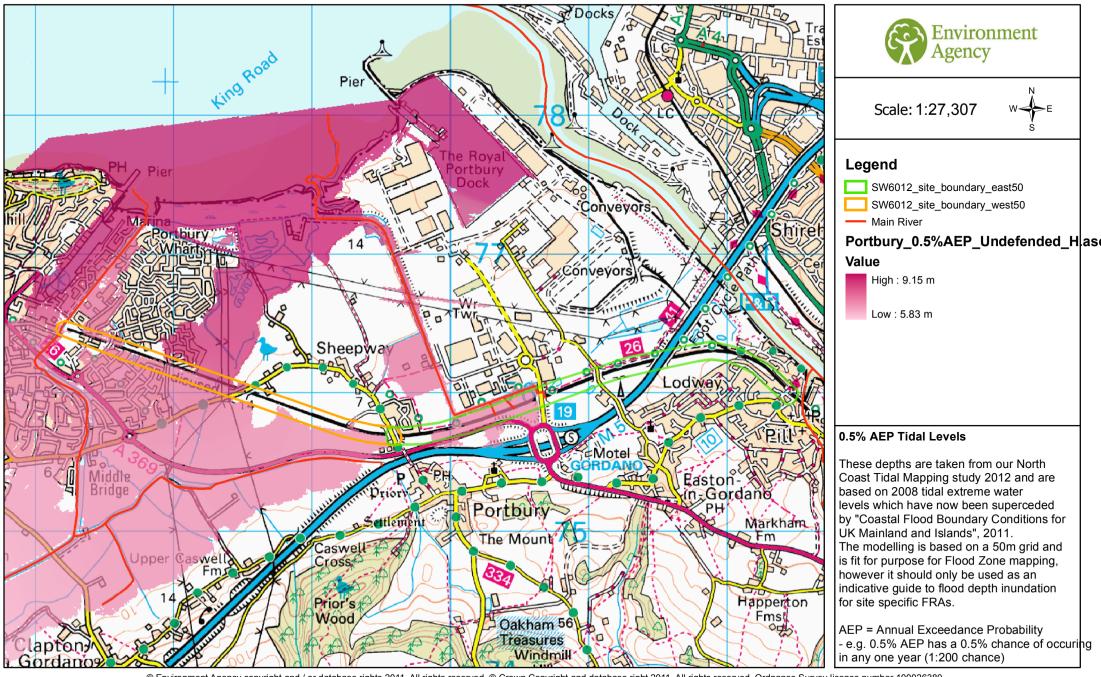
0.5% AEP (Defended) Tidal Level Grid centred on Portbury (Ref SW/6012) created on 27/05/2014



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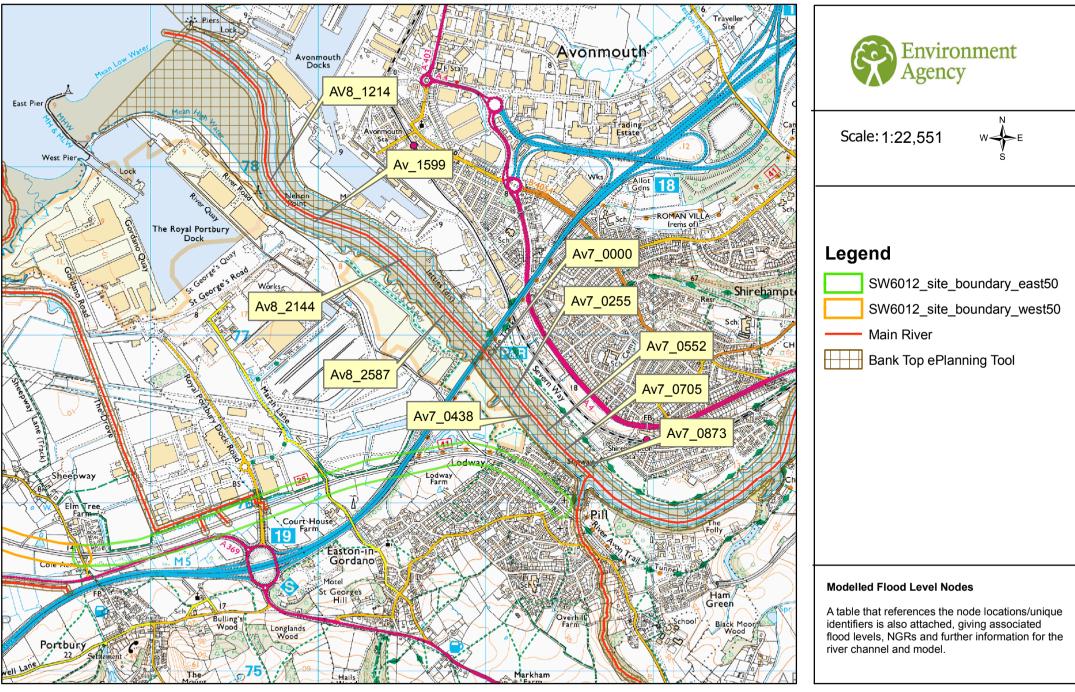
0.5% AEP (Undefended) Tidal Level Grid centred on Portbury (Ref SW/6012) created on 27/05/2014



WATERCOURS	S NODE	Q20_FLO	Q20_LEV	Q20CC_FLO	Q20CC_LEV	Q75_FLO	Q75_LEV	Q100_FLO	Q100_LEV	Q100CC_FLO	Q100CC_LEV	Χ	Υ
River Avon	Av7_0000	1033.61	7.10	1207.12	8.12	1083.49	7.11	1119.13	7.11	1258.43	8.11	352018	176853
River Avon	Av7_0255	1007.16	7.11	1177.34	8.13	1056.91	7.12	1091.45	7.12	1230.04	8.12	352165	176645
River Avon	Av7_0438	988.26	7.12	1156.44	8.14	1038.26	7.12	1071.52	7.13	1210.17	8.13	352283	176506
River Avon	Av7_0552	976.66	7.12	1143.36	8.14	1026.77	7.12	1059.11	7.13	1197.70	8.13	352374	176434
River Avon	Av7_0705	961.67	7.12	1126.46	8.14	1011.96	7.13	1043.09	7.13	1181.49	8.14	352464	176310
River Avon	Av7_0873	944.61	7.13	1107.23	8.15	994.31	7.13	1024.22	7.14	1161.67	8.14	352593	176200
River Avon	Av8_1214	1268.00	7.06	1460.46	8.06	1314.11	7.06	1353.80	7.06	1502.32	8.06	350706	177925
River Avon	Av8_1599	1207.86	7.06	1394.18	8.07	1253.67	7.07	1291.28	7.07	1438.50	8.07	350998	177675
River Avon	Av8_2144	1132.62	7.08	1313.06	8.09	1179.82	7.08	1215.16	7.08	1360.37	8.09	351499	177465
River Avon	Av8_2587	1075.67	7.09	1252.63	8.10	1124.45	7.10	1160.54	7.10	1301.91	8.10	351773	177112

WATERCOURS	NODE	Q100_FLO	Q100_LEV	Q1000_FLO	Q1000_LEV	TQ200_LEV	TQ1000_LEV	Χ	Υ
River Avon	Av7_0000	1119.20	7.11	1223.65	7.11	9.14	9.46	352018	176853
River Avon	Av7_0255	1091.51	7.12	1197.91	7.11	9.15	9.47	352165	176645
River Avon	Av7_0438	1071.61	7.13	1179.79	7.12	9.15	9.47	352283	176506
River Avon	Av7_0552	1059.22	7.13	1168.83	7.12	9.15	9.47	352374	176434
River Avon	Av7_0705	1043.21	7.13	1154.89	7.13	9.15	9.47	352464	176310
River Avon	Av7_0873	1024.28	7.14	1134.87	7.13	9.15	9.47	352593	176200
River Avon	Av8_1214	1353.85	7.06	1506.75	7.06	9.12	9.44	350706	177925
River Avon	Av8_1599	1291.33	7.07	1463.31	7.06	9.12	9.44	350998	177675
River Avon	Av8_2144	1215.16	7.08	1317.36	7.08	9.13	9.45	351499	177465
River Avon	Av8_2587	1160.62	7.10	1263.48	7.09	9.14	9.46	351773	177112

Modelled Node (Defended and Undefended) Location Map centred on Portbury - created on 28/05/2014 Ref: SW/6012



89_07_SD02, Version 6

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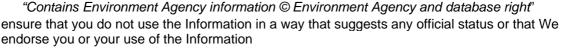


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