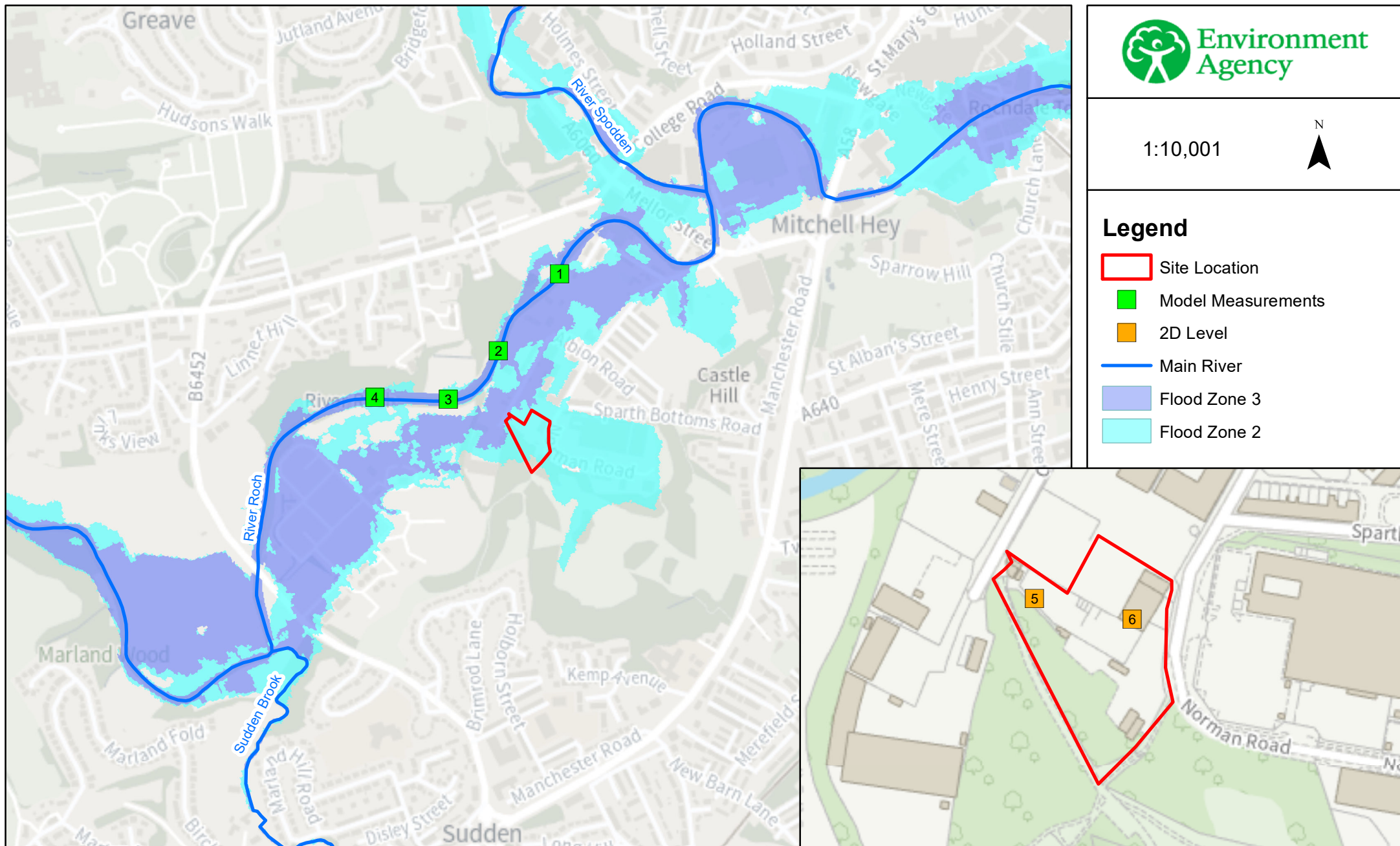


Appendix C Environment Agency's Data and Information

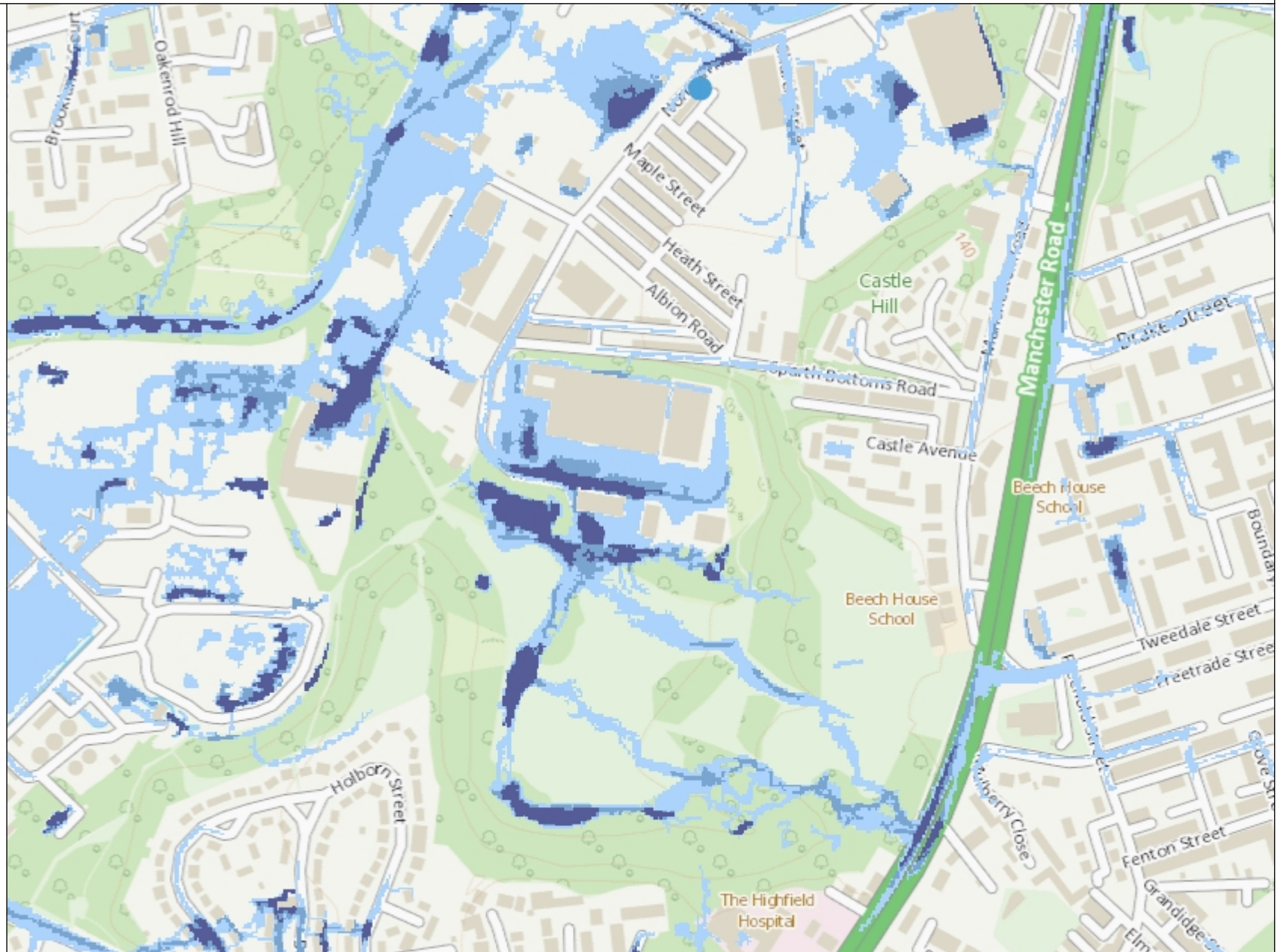
Detailed Flood Map centred on Norman Road, Rochdale, OL11 4HS. Created on 06/10/2022 [GMMC276090SW]



GMMC276090SW - Surface Water

Legend

-  Flood Extent 1 in 30
-  Flood Extent 1 in 100
-  Flood Extent 1 in 1000



Map Reference	Model Node Reference	Easting	Northing	Data	Undefended						Defended							
					5 % AEP (1 in 20 year)	1.33 % AEP (1 in 75 year)	1 % AEP (1 in 100 year)	1 % AEP (1 in 100 year) + 35% increase in flow	1 % AEP (1 in 100 year) + 70% increase in flow	0.5 % AEP (1 in 200 year)	0.1 % AEP (1 in 1000 year)	5 % AEP (1 in 20 year)	1.33 % AEP (1 in 75 year)	1 % AEP (1 in 100 year)	1 % AEP (1 in 100 year) + 35% increase in flow	1 % AEP (1 in 100 year) + 70% increase in flow	0.5 % AEP (1 in 200 year)	0.1 % AEP (1 in 1000 year)
1	ea013_0180_ROCH04_0731	388779	413052	Modelled Water Level (m aodN)	113.77	114.21	114.32	114.94	115.17	114.63	115.31	113.80	114.23	114.36	114.96	115.31	114.60	115.30
				Modelled Flow (cumecs)	77.63	94.14	98.06	115.90	122.50	108.01	126.98	80.34	99.59	105.21	131.78	141.47	115.18	140.55
2	ea013_0180_ROCH04_0526	388658	412891	Modelled Water Level (m aodN)	113.15	113.53	113.62	114.10	114.27	113.86	114.37	113.18	113.55	113.65	114.14	114.39	113.85	114.37
				Modelled Flow (cumecs)	79.64	102.03	108.02	144.92	160.48	125.47	169.55	80.92	103.40	110.57	146.67	170.84	124.34	170.36
3	ea013_0180_ROCH04_0376	388555	412795	Modelled Water Level (m aodN)	112.83	113.21	113.31	113.82	114.00	113.56	114.09	112.86	113.23	113.34	113.87	114.11	113.54	114.09
				Modelled Flow (cumecs)	79.63	102.02	108.01	144.12	159.21	125.47	169.18	80.92	103.40	110.56	147.57	170.83	124.34	169.58
4	ea013_0180_ROCH04_0226	388403	412799	Modelled Water Level (m aodN)	112.51	112.89	112.99	113.49	113.65	113.24	113.73	112.53	112.91	113.03	113.53	113.75	113.23	113.73
				Modelled Flow (cumecs)	79.63	102.03	108.02	144.51	159.05	125.29	167.38	80.91	103.40	110.55	148.16	168.98	124.19	167.85

Map Reference	Model Node Reference	Easting	Northing	Data	Undefended		
					1 % AEP (1 in 100 year) + 35% increase in flow	1 % AEP (1 in 100 year) + 70% increase in flow	0.1 % AEP (1 in 1000 year)
5	2D Level	388692	412740	Modelled Water Level (m aodN)	113.80	114.04	114.19
6		388740	412730	Modelled Water Level (m aodN)	113.82	114.15	114.30

Model data taken from Rochdale and Littleborough 2013 Study

AEP - Annual Exceedence Probability

m aodN - metres above ordnance datum Newlyn

cumecs - cubic metres per second

Notes: *Climate Change Scenario - 35% and 70% increases in flow calculated for the 2080's (2070 - 2115). Please see <https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances> for more information regarding the new climate change guidance. The location of the site and the type (vulnerability) of development determine the climate change allowances to consider in any flood risk assessment.

*Climate Change Scenario - We only hold climate change measurements based on the previous climate change guidance (20% increase in flow). The new climate change guidance is available at <https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances>. The location of the site and the type (vulnerability) of development determine the climate change allowances to consider in any flood risk assessment.