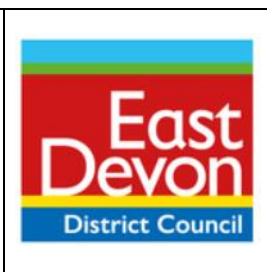
	East Devon District Council Level 2 Strategic Flood Risk Assessment Detailed Site Summary Tables									
Site Code	Axmi_07									
Address	Axminster Carpets									
Area	5.0 hectares									
Current land use	Axminster Carpets									
Proposed land use	Mixed use/Commercial									
Flood Risk Vulnerability	More vulnerable									
Sources of flood risk										
Location of site	<p>The site is located to the south of the centre of Axminster, at the end of Woodmead Road and west of the A358.</p> <p>The site is located 80m east of the River Axe, and a small tributary passes underneath the site through a culvert.</p>									
Topography	<p>The Environment Agency's 1m resolution 2022 Composite LiDAR shows that the topography of the site declines from the east (41mAOD) to the west (24.7mAOD). The topography is shown to fall most rapidly far east within the first 50m before declining with a relatively continuous gradient along the remainder of the site. The gradient is approximately 4%, therefore the site is considered to have a gentle slope, and is unlikely to affect any proposed SuDS features.</p> <p>The catchment therefore drains west into the River Axe.</p>									
Existing drainage features	<p>The site is shown to contain a culvert that passes underneath the site as a tributary of the River Axe.</p> <p>The existing surface water drainage system on site is unknown and should be investigated prior to development.</p>									
Fluvial	<p>Available data and mapping: Environment Agency Flood Map for Planning for Rivers and Sea and the Axminster Carpets Flood Modelling. The Axminster Carpets Flood Modelling was developed by JBA Consulting in 2024 for this Level 2 SFRA assessment for East Devon District Council.</p> <p>Axmi_07 - Fluvial 3.3% AEP - Depth Axmi_07 - Fluvial 3.3% AEP - Hazard Axmi_07 - Fluvial 3.3%AEP - Velocity Axmi_07 - Fluvial 1% AEP - Depth Axmi_07 - Fluvial 1% AEP - Hazard Axmi_07 - Fluvial 1% AEP - Velocity Axmi_07 - Fluvial 0.1% AEP - Depth Axmi_07 - Fluvial 0.1% AEP - Hazard Axmi_07 - Fluvial 0.1% AEP - Velocity</p> <p>Data analysis: Details of the sites location within each Flood Zone are provided within the SFRA Site Screening Appendix.</p> <p>Details are provided below for the Axminster flood modelling:</p> <p>3.3% AEP (1 in 30 year) event:</p> <table border="0" style="width: 100%;"> <tr> <td>Proportion - 26%</td> <td>Mean Depth - 0.07m</td> </tr> <tr> <td>Max Depth - 1.67m</td> <td>Mean Velocity - 0.08m/s</td> </tr> <tr> <td>Max Velocity - 1.36m/s</td> <td>Mean Hazard - 0.55</td> </tr> <tr> <td>Max Hazard - 3.65</td> <td></td> </tr> </table>		Proportion - 26%	Mean Depth - 0.07m	Max Depth - 1.67m	Mean Velocity - 0.08m/s	Max Velocity - 1.36m/s	Mean Hazard - 0.55	Max Hazard - 3.65	
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East Devon District Council Level 2 Strategic Flood Risk Assessment Detailed Site Summary Tables





East Devon District Council Level 2 Strategic Flood Risk Assessment Detailed Site Summary Tables



Site Code	Axmi_07																																																
Address	Axminster Carpets																																																
	<p>Axmi_07 - Fluvial 0.1% AEP plus 46% Climate Change - Velocity</p> <p>Management Catchment: Axmi_07 is located within the East Devon Management Catchment. The Environment Agency guidance recommends that the central allowance is assessed for sites within Flood Zones 2 and 3a for sites that have a flood risk vulnerability of 'More Vulnerable'. The recommended uplift on peak river flow allowances for the central and higher central estimate for the 2080s are 46% and 61% respectively. The model was therefore set to run with a 46% and 61% climate change allowance to reflect these allowances and the results are discussed below for completeness, however mapping has only been provided for the 46% central allowance as recommended.</p> <p>Data analysis:</p> <p>3.3% AEP (1 in 30 year) plus 46% Climate Change event:</p> <table style="width: 100%; border: none;"> <tr> <td>Proportion - 31%</td> <td>Mean Depth - 0.15m</td> </tr> <tr> <td>Max Depth - 1.76m</td> <td>Mean Velocity - 0.15m/s</td> </tr> <tr> <td>Max Velocity - 2.78m/s</td> <td>Mean Hazard - 0.66</td> </tr> <tr> <td>Max Hazard - 3.74</td> <td></td> </tr> </table> <p>3.3% AEP (1 in 30 year) plus 61% Climate Change event:</p> <table style="width: 100%; border: none;"> <tr> <td>Proportion - 31%</td> <td>Mean Depth - 0.17m</td> </tr> <tr> <td>Max Depth - 1.78m</td> <td>Mean Velocity - 0.16m/s</td> </tr> <tr> <td>Max Velocity - 3.12m/s</td> <td>Mean Hazard - 0.7</td> </tr> <tr> <td>Max Hazard - 3.82</td> <td></td> </tr> </table> <p>1% AEP (1 in 100 year) plus 46% Climate Change event:</p> <table style="width: 100%; border: none;"> <tr> <td>Proportion - 32%</td> <td>Mean Depth - 0.2m</td> </tr> <tr> <td>Max Depth - 1.83m</td> <td>Mean Velocity - 0.19m/s</td> </tr> <tr> <td>Max Velocity - 3.54m/s</td> <td>Mean Hazard - 0.8</td> </tr> <tr> <td>Max Hazard - 4.27</td> <td></td> </tr> </table> <p>1% AEP (1 in 100 year) plus 61% Climate Change event:</p> <table style="width: 100%; border: none;"> <tr> <td>Proportion - 32%</td> <td>Mean Depth - 0.22m</td> </tr> <tr> <td>Max Depth - 1.85m</td> <td>Mean Velocity - 0.2m/s</td> </tr> <tr> <td>Max Velocity - 3.71m/s</td> <td>Mean Hazard - 0.85</td> </tr> <tr> <td>Max Hazard - 4.59</td> <td></td> </tr> </table> <p>0.1% AEP (1 in 1000 year) plus 46% Climate Change event:</p> <table style="width: 100%; border: none;"> <tr> <td>Proportion - 34%</td> <td>Mean Depth - 0.29m</td> </tr> <tr> <td>Max Depth - 1.93m</td> <td>Mean Velocity - 0.25m/s</td> </tr> <tr> <td>Max Velocity - 4.37m/s</td> <td>Mean Hazard - 1.04</td> </tr> <tr> <td>Max Hazard - 5.57</td> <td></td> </tr> </table> <p>0.1% AEP (1 in 1000 year) plus 61% Climate Change event:</p> <table style="width: 100%; border: none;"> <tr> <td>Proportion - 35%</td> <td>Mean Depth - 0.3m</td> </tr> <tr> <td>Max Depth - 1.95m</td> <td>Mean Velocity - 0.26m/s</td> </tr> <tr> <td>Max Velocity - 4.54m/s</td> <td>Mean Hazard - 1.07</td> </tr> <tr> <td>Max Hazard - 5.94</td> <td></td> </tr> </table>	Proportion - 31%	Mean Depth - 0.15m	Max Depth - 1.76m	Mean Velocity - 0.15m/s	Max Velocity - 2.78m/s	Mean Hazard - 0.66	Max Hazard - 3.74		Proportion - 31%	Mean Depth - 0.17m	Max Depth - 1.78m	Mean Velocity - 0.16m/s	Max Velocity - 3.12m/s	Mean Hazard - 0.7	Max Hazard - 3.82		Proportion - 32%	Mean Depth - 0.2m	Max Depth - 1.83m	Mean Velocity - 0.19m/s	Max Velocity - 3.54m/s	Mean Hazard - 0.8	Max Hazard - 4.27		Proportion - 32%	Mean Depth - 0.22m	Max Depth - 1.85m	Mean Velocity - 0.2m/s	Max Velocity - 3.71m/s	Mean Hazard - 0.85	Max Hazard - 4.59		Proportion - 34%	Mean Depth - 0.29m	Max Depth - 1.93m	Mean Velocity - 0.25m/s	Max Velocity - 4.37m/s	Mean Hazard - 1.04	Max Hazard - 5.57		Proportion - 35%	Mean Depth - 0.3m	Max Depth - 1.95m	Mean Velocity - 0.26m/s	Max Velocity - 4.54m/s	Mean Hazard - 1.07	Max Hazard - 5.94	
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East Devon District Council Level 2 Strategic Flood Risk Assessment Detailed Site Summary Tables



Site Code	Axmi_07																								
Address	Axminster Carpets																								
	<p>Flood characteristics: The site is shown to flood in all six events along the west and southern portions of the site. The maximum extent of flooding is within the 0.1% AEP plus 61% climate change covering 35% of the site, with an average depth of 0.3m. The mean velocity during this event is 0.26m/s, with a maximum of 4.54m/s. The average hazard on site is shown to be 1.07, which is stated to be a 'danger to some'. It should be noted the even during the 0.1% AEP plus 61% climate change event there is a significant decrease in the flood extent in comparison to the Flood Map for Planning Flood Zones across the eastern half of the site.</p>																								
Fluvial Blockage Scenario	<p>Available data and mapping: The Axminster Carpets Flood Risk modelling developed by JBA Consulting in 2024 for this Level 2 SFRA assessment for East Devon, was also run to include a blockage scenario along the culvert underneath the site for the 1% AEP and 1% plus 46% and 61% climate change allowances.</p> <p>Axmi_07 - Fluvial 1% AEP plus 75% Blockage - Depth Axmi_07 - Fluvial 1% AEP plus 75% Blockage - Hazard Axmi_07 - Fluvial 1% AEP plus 75% Blockage - Velocity Axmi_07 - Fluvial 1% AEP plus 46% Climate Change with 75% blockage - Depth Axmi_07 - Fluvial 1% AEP plus 46% Climate Change with 75% blockage - Hazard Axmi_07 - Fluvial 1% AEP plus 46% Climate Change with 75% blockage - Velocity</p> <p>Data analysis:</p> <p>1% AEP (1 in 100 year) with 75% blockage event:</p> <table style="width: 100%; border: none;"> <tr> <td>Proportion - 32%</td> <td>Mean Depth - 0.2m</td> </tr> <tr> <td>Max Depth - 1.82m</td> <td>Mean Velocity - 0.18m/s</td> </tr> <tr> <td>Max Velocity - 3.45m/s</td> <td>Mean Hazard - 0.77</td> </tr> <tr> <td>Max Hazard - 3.46</td> <td></td> </tr> </table> <p>1% AEP (1 in 100 year) plus 46% Climate Change with 75% blockage event:</p> <table style="width: 100%; border: none;"> <tr> <td>Proportion - 33%</td> <td>Mean Depth - 0.25m</td> </tr> <tr> <td>Max Depth - 1.89m</td> <td>Mean Velocity - 0.22m/s</td> </tr> <tr> <td>Max Velocity - 3.98m/s</td> <td>Mean Hazard - 0.95</td> </tr> <tr> <td>Max Hazard - 4.27</td> <td></td> </tr> </table> <p>1% AEP (1 in 100 year) plus 61% Climate Change with 75% blockage event:</p> <table style="width: 100%; border: none;"> <tr> <td>Proportion - 33%</td> <td>Mean Depth - 0.26m</td> </tr> <tr> <td>Max Depth - 1.9m</td> <td>Mean Velocity - 0.23m/s</td> </tr> <tr> <td>Max Velocity - 4.1m/s</td> <td>Mean Hazard - 0.98</td> </tr> <tr> <td>Max Hazard - 4.47</td> <td></td> </tr> </table> <p>Flood characteristics: The 75% blockage scenario is shown to increase the extent of flooding to the site across the three modelled events. The 0.1% AEP plus 61% climate change event has shown a 1% increase in site coverage, with an average depth of 0.26m. The mean velocity is shown to be 0.23m/s, with a maximum of 4.1m/s. The average hazard rating is 0.98, classed as a 'danger to some'.</p>	Proportion - 32%	Mean Depth - 0.2m	Max Depth - 1.82m	Mean Velocity - 0.18m/s	Max Velocity - 3.45m/s	Mean Hazard - 0.77	Max Hazard - 3.46		Proportion - 33%	Mean Depth - 0.25m	Max Depth - 1.89m	Mean Velocity - 0.22m/s	Max Velocity - 3.98m/s	Mean Hazard - 0.95	Max Hazard - 4.27		Proportion - 33%	Mean Depth - 0.26m	Max Depth - 1.9m	Mean Velocity - 0.23m/s	Max Velocity - 4.1m/s	Mean Hazard - 0.98	Max Hazard - 4.47	
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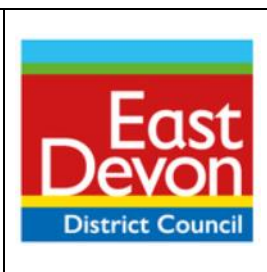
East Devon District Council Level 2 Strategic Flood Risk Assessment Detailed Site Summary Tables





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	East Devon District Council Level 2 Strategic Flood Risk Assessment Detailed Site Summary Tables	
Site Code	Axmi_07	
Address	Axminster Carpets	
	Flow paths would be expected to follow the topography of the site and be similar to surface water flow paths. The risk of groundwater flooding will require further consideration in a site-specific flood risk assessment.	
Sewers	<p>Available data and mapping: Devon County Councils Flood Incidents dataset</p> <p>Flood characteristics: In 2012 a sewerage event was recorded to the north of the site boundary due to surcharging toilets.</p>	
Flood history	<p>Available data and mapping: Environment Agency's Recorded Flood Outlines extent.</p> <p>Flood characteristics: A small section along the western boundary of the site is shown to be located within the Environment Agency's Recorded Flood Outlines extent for the River Axe exceeding capacity in 1968.</p> <p>There are two flooding incidents within Devon County Council's dataset recorded within 100m of the site. On site a sewerage event was recorded detailed above, and to the east of the site an ordinary watercourse event was recorded in 2021 near the culvert resulting in flooding to gardens and a low level impact on a property internally.</p>	
Policy zones		
Critical drainage areas	The site has not been identified to be located within a critical drainage area. Axmi_07 - Critical Drainage Area	
Coastal change management areas	The site has not been identified to be located within a coastal change management area.	
Flood risk management infrastructure		
Existing defences	The Environment Agency's AIMS dataset shows there are no formal flood defences within the vicinity of the site.	
Emergency planning		
Flood warning	<p>A large portion of the site crossing from east to west has been identified to be located within an area of flood alerts for the River Axe area.</p> <p>The site is not shown to be located within a flood warning area.</p> <p>Axmi_07 - Flood Warnings and Alerts</p>	
Access and egress	<p>Access and egress are shown to be affected during the 1% AEP plus climate change surface water modelling with flood depths up to 0.61m along Woodmead Road. Depths are however less than 0.21m within the 1% AEP plus climate change fluvial modelling at the same location along Woodmead Road.</p> <p>It is therefore recommended that access and egress is assessed within a site-specific assessment and a Flood Response Plan is developed.</p>	



**East Devon District Council Level 2
Strategic Flood Risk Assessment
Detailed Site Summary Tables**



Site Code	Axmi_07
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Address	Axminster Carpets
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Requirements for drainage control and impact mitigation

Broad-scale assessment of possible SuDS	<p>Geology and Soils</p> <p>The geology consists of mudstone, siltstone and sandstone, with clay, silt and sand superficial deposits. The soils are shown to be freely draining slightly acid loamy soils. This suggests that infiltration may be a viable means of surface water disposal to the east of the site.</p> <p>SuDS</p> <ul style="list-style-type: none"> • The site has not been identified to be located within a groundwater source protection zone, nitrate vulnerable zone or historic landfill site. • Groundwater levels on site suggest low risk across the majority of the site, but levels close to the surface along the extent of the culvert. This suggests that infiltration may be limited in some areas. The infiltration potential of the site should be confirmed through infiltration testing, in line with BRE 365. Offsite discharge may therefore be required to discharge surface water runoff. • Surface water discharge rates should not exceed pre-development discharge rates for the site and should be designed to be as close to greenfield runoff rates as reasonably practical in consultation with the LLFA. It may be possible to reduce site runoff by maximising the permeable surfaces on site using a combination of permeable surfacing and soft landscaping techniques. • SuDS measures should follow the discharge hierarchy, and if it is proposed to discharge runoff to a watercourse or sewer system, the condition and capacity of the receiving watercourse or asset should be confirmed through surveys and the discharge rate agreed with the asset owner. • Due to the topography, any surface water not intercepted via infiltration will drain via gravity to the west of the site and likely drain into the River Axe. It is therefore recommended that the LLFA and the EA are consulted about viable discharge locations for surface water from the site and their attenuation potential.
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Opportunities for wider sustainability benefits and integrated flood risk management	<ul style="list-style-type: none"> • Implementation of SuDS at the site could provide opportunities to deliver multiple benefits including volume control, water quality, amenity and biodiversity. This could also provide wider sustainability benefits to the site and surrounding area. Proposals to use SuDS techniques should be discussed with relevant stakeholders (LPA, LLFA and EA) at an early stage to understand possible constraints. • The design of the surface water management proposals should take into account the impacts of future climate change over the projected lifetime of the development, and the critical drainage area requirements. • Opportunities to incorporate source control techniques such as green roofs, permeable surfaces and rainwater harvesting must be considered in the design of the site. • SuDS are to be designed so that they are easy to maintain, and it should be set out who will maintain the system, how the maintenance will be funded and should be supported by an appropriately detailed maintenance and operation manual.
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