

Appendix B - Data Sources

This appendix provides details on the main data sources used as part of this Strategic Flood Risk Assessment (SFRA), including its purpose, licencing details, when the data was obtained for the SFRA, and where any updated data can be obtained by users of the SFRA.

Data source	Use of data in this SFRA	Relevant sections of the SFRA	Included in Interactive mapping	Stakeholder	Date received	Where can data be obtained? (Note: not all data is available to all users, some data was provided specifically for the SFRA)	Licence details
Hydraulic models and outputs - Additive Boume 2007 1D ISIS - Blackwater 2007 1D-2D ISIS-TUFLOW - Blackwater Tribes Model 10 2012 1D-2D ISIS-TUFLOW - Blackwater Tribes Model 12 2012 1D-2D ISIS-TUFLOW	Define SFRA Flood Zones, assess present day and future fluvial flood risk	Section 4.4 Fluvial Flood Risk Section 5.3 Representing climate change in the Level 1 SFRA Appendix A Interactive Mapping Portal Appendix D Summary of flood risk across the borough	Yes	Environment Agency	15/08/2024	Request from the Environment Agency via their Flood Map for Planning Service	Environment Agency Conditional Licence
Flood Map for Planning Flood Zone 2	Define SFRA Flood Zones, assess present day fluvial flood risk	Section 4.4 Fluvial Flood Risk Section 5.3 Representing climate change in the Level 1 SFRA Appendix A Interactive Mapping Portal Appendix D Summary of flood risk across the borough	Yes	Environment Agency	20/08/2024	Flood Zone 2	Open Government Licence
Flood Map for Planning Flood Zone 3	Define SFRA Flood Zones, assess present day fluvial flood risk	Section 4.4 Fluvial Flood Risk Section 5.3 Representing climate change in the Level 1 SFRA Appendix A Interactive Mapping Portal Appendix D Summary of flood risk across the borough	Yes	Environment Agency	20/08/2024	Flood Zone 3	Open Government Licence
Risk of Flooding from Rivers and Sea	Assess present day fluvial flood risk	Appendix A Interactive Mapping Portal	Yes	Environment Agency	20/08/2024	Risk of Flooding from Rivers and Sea	Open Government Licence
Detailed River Network	Identify watercourse locations	Section 1.3 Study area Interactive Mapping Portal	Yes	Environment Agency (via Surrey Heath Borough Council)	16/08/2024	Defra Data Services Platform (only available to specified users)	Environment Agency Conditional Licence
Risk of Flooding from Surface Water	Assess present day surface water flood risk	Section 4.5 Surface water flooding Appendix A Interactive Mapping Portal Appendix D Summary of flood risk across the borough	Yes	Environment Agency	20/08/2024	Risk of Flooding from Surface Water	Open Government Licence
Risk of Flooding from Surface Water with Climate Change uplifts	Assess future surface water flood risk	Section 4.5 Surface water flooding Section 5.3 Representing climate change in the Level 1 SFRA Appendix A Interactive Mapping Portal	Yes	Environment Agency (uplifts run by JBA Consulting)	17/09/2024	Request from Surrey Heath Borough Council (data not available to all parties)	Open Government Licence
Areas susceptible to groundwater flooding (ASIGWI)	Assess groundwater flood risk	Section 4.7 Groundwater flooding Appendix A Interactive Mapping Portal Appendix D Summary of flood risk across the borough	Yes	Environment Agency (via Surrey Heath Borough Council)	16/08/2024	Defra Data Services Platform (only available to specified users)	Environment Agency Conditional Licence
JBA's Groundwater Emergence Map	Assess groundwater flood risk	Section 4.7 Groundwater flooding Appendix D Summary of flood risk across the borough Appendix E JBA Groundwater Emergence Mapping	No	JBA	21/08/2024	Request from JBA Consulting (subject to licence fee)	JBA Consulting Licence
Reservoir inundation mapping - Dry Day scenario	Assess reservoir flood risk	Section 4.9 Flooding from reservoirs Appendix A Interactive Mapping Portal Appendix D Summary of flood risk across the borough	Yes	Gov open source data	20/08/2024	Reservoir inundation mapping - Dry Day scenario	Open Government Licence
Reservoir inundation mapping - Wet Day scenario	Assess reservoir flood risk	Section 4.9 Flooding from reservoirs Appendix A Interactive Mapping Portal Appendix D Summary of flood risk across the borough	Yes	Gov open source data	20/08/2024	Reservoir inundation mapping - Wet Day scenario	Open Government Licence
Reservoir inundation mapping - Fluvial Contribution	Assess reservoir flood risk	Section 4.9 Flooding from reservoirs Appendix A Interactive Mapping Portal Appendix D Summary of flood risk across the borough	Yes	Gov open source data	20/08/2024	Reservoir inundation mapping - Fluvial Contribution	Open Government Licence
Wetspots, Catchment action plans, Priority flood areas, and Property flood (aggregated to roads)	Understand historic flood risk and known flooding hotspots	Section 4.2 Historical flooding	No	Surrey County Council	20/08/2024	Request from Surrey County Council (data not available to all parties)	Surrey County Council Data Sharing Agreement
Thames Water Sewer Flooding Recorded Incidents	Understand locations of historic sewer flood risk	Section 4.6 Sewer flooding	No	Thames Water	21/08/2024	Request from Thames Water (data not available to all parties)	-
Surrey Fire and Rescue Service known locations of historic flooding incidents	Understand locations of historic flood risk	Section 4.2 Historical flooding	No	Surrey Fire and Rescue Service	22/08/2024	Request from Surrey Fire and Rescue Service (data not available to all parties)	-
Historic Flood Map	Understand historic flood risk	Section 4.2 Historical flooding Appendix A Interactive Mapping Portal Appendix D Summary of flood risk across the borough	Yes	Environment Agency	20/08/2024	Historic Flood Map	Open Government Licence
Recorded Flood Outlines	Understand historic flood risk	Section 4.2 Historical flooding Appendix A Interactive Mapping Portal Appendix D Summary of flood risk across the borough	Yes	Environment Agency	20/08/2024	Recorded Flood Outlines	Open Government Licence
Reduction in Risk of Flooding from Rivers and Sea due to Defences	Assessing impact of defences on flood risk	Section 6.4 Major flood risk management assets in the borough Appendix A Interactive Mapping Portal Appendix D Summary of flood risk across the borough	Yes	Environment Agency	20/08/2024	Reduction in Risk of Flooding from Rivers and Sea due to Defences	Open Government Licence
Flood defence data from AIMS database	Understand location, condition, and standard of protection offered by defences in the study area	Section 6.4 Major flood risk management assets in the borough Appendix A Interactive Mapping Portal Appendix D Summary of flood risk across the borough	Yes	Environment Agency	20/08/2024	Flood defence data from AIMS database	Open Government Licence
Aquifer designation map (bedrock geology)	Understanding the geology of the study area and implications for management of flood risk	Section 4.3 Topography, geology, and soils	No	Environment Agency (via Surrey Heath Borough Council)	16/08/2024	Defra Data Services Platform (only available to specified users)	Environment Agency Conditional Licence
Aquifer designation map (superficial deposits)	Understanding the geology of the study area and implications for management of flood risk	Section 4.3 Topography, geology, and soils	No	Environment Agency (via Surrey Heath Borough Council)	16/08/2024	Defra Data Services Platform (only available to specified users)	Environment Agency Conditional Licence
Environment Agency 1m LIDAR	Understanding the topography of the study area and how this affects the location and characteristics of flood risk	Section 4.3 Topography, geology, and soils	No	Environment Agency	20/08/2024	LIDAR Composite Digital Terrain Model (DTM) - 1m	Open Government Licence
Groundwater Vulnerability Map	Understanding considerations and constraints in relation to surface water management and SuDS	Section 9.4 Other surface water considerations	No	Environment Agency (via Surrey Heath Borough Council)	16/08/2024	Defra Data Services Platform (only available to specified users)	Environment Agency Conditional Licence
Source Protection Zones (merged)	Understanding considerations and constraints in relation to surface water management and SuDS	Section 9.4 Other surface water considerations	No	Environment Agency	20/08/2024	Source Protection Zones (merged)	Open Government Licence
WFD catchment boundaries for CIA	Catchments used for the cumulative impact assessment to assess the cumulative impacts of development in the study area	Section 7 Cumulative impact of development and strategic solutions	No	Environment Agency	20/08/2024	WFD River Waterbody Catchments Cycle 2	Open Government Licence
Information on site allocations	Assessing the cumulative impacts of development	Section 7 Cumulative impact of development and strategic solutions	No	Royal Borough of Windsor and Maidenhead	15/08/2024	Data provided specifically for this SFRA, existing local plan site allocations and details are available on the Council website	-
Information on site allocations	Assessing the cumulative impacts of development	Section 7 Cumulative impact of development and strategic solutions	No	Runnymede Borough Council	27/08/2024	Data provided specifically for this SFRA, existing local plan site allocations and details are available on the Council website	-
Information on site allocations	Assessing the cumulative impacts of development	Section 7 Cumulative impact of development and strategic solutions	No	Guildford Borough Council	29/07/2024	Data provided specifically for this SFRA, existing local plan site allocations and details are available on the Council website	-
Information on site allocations	Assessing the cumulative impacts of development	Section 7 Cumulative impact of development and strategic solutions	No	Rushmoor Borough Council	22/08/2024	Data provided specifically for this SFRA, existing local plan site allocations and details are available on the Council website	-
Information on site allocations	Assessing the cumulative impacts of development	Section 7 Cumulative impact of development and strategic solutions	No	Hart District Council	11/09/2024	Data provided specifically for this SFRA, existing local plan site allocations and details are available on the Council website	-
Information on site allocations	Assessing the cumulative impacts of development	Section 7 Cumulative impact of development and strategic solutions	No	Bracknell Forest Council	19/09/2024	Data provided specifically for this SFRA, existing local plan site allocations and details are available on the Council website	-
Flood Alert Areas	Flood warning and emergency planning	Section 4.10 Flood alerts and flood warnings Appendix A Interactive Mapping Portal	Yes	Environment Agency	20/08/2024	Flood Alert Areas	Open Government Licence
Flood Warning Areas	Flood warning and emergency planning	Section 4.10 Flood alerts and flood warnings Appendix A Interactive Mapping Portal	Yes	Environment Agency	20/08/2024	Flood Warning Areas	Open Government Licence