

## Appendix O - Guide to using technical data

This guide sets out how the data contained within this SFRA should be used to undertake the Sequential and Exception Tests. The different sources of flood risk are divided into three levels of concern: high medium and low. Within these, recommendations and advice for undertaking the Sequential and Exception Tests are provided as well as references to relevant sections of this SFRA.

Flood risk source / information source: sets out the different sources of flood risk and technical data used within the study, including Flood Zones, surface water, groundwater, climate change, reservoir inundation, historic flood risk and proximity to watercourses.

Relevant sections of this SFRA: cross-references the flood risk and information sources with the relevant sections of this SFRA.

Result: divides the flood risk and information sources into categories based on the extent of impact to a site. The Site Screening spreadsheet can be used to cross-reference a site against these criteria.

Level of concern: Categorises the flood risk and information sources into three levels of concern (high, medium and low) based on the result column.

Recommendations: Provides recommendations in relation to development suitability, further investigations, additional site-specific FRA considerations and consideration of defences and SuDS, based on the level of concern.

Sequential and Exception Tests: Provides advice on applying the Sequential and Exception Tests, including under what circumstances a Level 2 SFRA may be required, based on the level of concern.

Rother District Council require that developments in areas at risk of surface water, groundwater or reservoir flooding follow the same requirements as those laid out in Parts (a) and (b) of the NPPF's Exception Test.

Flood risk source/ information source	Relevant sections of this SFRA	Result	Level of concern	Recommendations	Sequential and Exception Tests
Fluvial / Tidal (Flood Zones)	5 - Sources of information used in preparing the SFRA 6 - Understanding the risk in the Rother District	Significant proportion (e.g. greater than 50%) of site in Flood Zones (2 and 3)	High	Residential development on a site in this zone is unlikely to be appropriate unless the site is in an area benefitting from defence and can be made safe for the intended lifespan.	Sites in these categories should be explicitly addressed in a Sequential Test and may require preparation of further evidence to substantiate that Exception Test can be satisfied. Evidence from a Level 2 SFRA is required to demonstrate that the principle of development is supported.
		A proportion (e.g. less than 50%) of site in Flood Zones (2 and 3)	Medium	Residential development may be appropriate, sequential approach should be applied to avoid developing in flood zones as far as reasonable. Parts of the site within flood zone 1 should also be reviewed against the criteria described below.	
		Site located in Flood Zone 1	Medium	Residential development is probably appropriate in this zone, however catchments <3km <sup>2</sup> in area are not covered by the Environment Agency Flood Zones and there may be a risk of flooding from small watercourses and/or other sources. These should be considered in conjunction with the DRN data and data on other sources of flooding. The surface water data in particular often highlights areas at risk of flooding from these smaller watercourses.	
Fluvial / Tidal - Climate change	4 - Climate change 5 - Sources of information used in preparing the SFRA 6 - Understanding the risk in the Rother District	Significant proportion (e.g. greater than 50%) of site at risk of flooding from the future 1% AEP event	High	Residential development is unlikely to be appropriate unless the site is in an area benefitting from defence. Consideration should be given to the Standard of Protection of existing defences in relation to future climate change and any other measures necessary to provide appropriate standards of protection to proposed development.	Sites in these categories should be explicitly addressed in a Sequential Test and may require preparation of further evidence to substantiate that Exception Test can be satisfied. Evidence from a Level 2 SFRA is required to demonstrate that the principle of development is supported.
		A proportion (e.g. less than 50%) of site at risk of flooding from the future 1% AEP event	Medium	Residential development may be appropriate, sequential approach should be applied to avoid developing in the areas at risk of flooding as much as reasonable. Consideration should be given to the Standard of Protection of any defences in relation to future climate change and the commitment to deliver the required standards.	
		Site not at risk of flooding from the future 1% AEP event	Medium	Residential development is probably appropriate in this risk area, however this will depend on the present-day fluvial / tidal risk - refer to fluvial / tidal flood zone recommendations	
Fluvial / Tidal - Climate change proxy	4 - Climate change 5 - Sources of information used in preparing the SFRA 6 - Understanding the risk in the Rother District	Significant proportion (e.g. greater than 50%) of site at risk of flooding from the 0.1% AEP event when used as a proxy for climate change	High	Residential development is unlikely to be appropriate unless the site is in an area benefitting from defence. Consideration should be given to the Standard of Protection of existing defences in relation to future climate change and any other measures necessary to provide appropriate standards of protection to proposed development.	Sites in these categories should be explicitly addressed in a Sequential Test and may require preparation of further evidence to substantiate that Exception Test can be satisfied. Evidence from a Level 2 SFRA (including detailed modelling of the impact of climate change) is required to demonstrate that the principle of development is supported.
		A proportion (e.g. less than 50%) of site at risk of flooding from the 0.1% AEP event when used as a proxy for climate change	Medium	Residential development may be appropriate, sequential approach should be applied to avoid developing in the areas at risk of flooding as much as reasonable. Consideration should be given to the Standard of Protection of any defences in relation to future climate change and the commitment to deliver the required standards.	
		Site not at risk of flooding from the 0.1% AEP event when used as a proxy for climate change	Low	Residential development is likely to be appropriate based on this criterion.	
Surface Water	5 - Sources of information used in preparing the SFRA 6 - Understanding the risk in the Rother District	Significant proportion (e.g. >50%) of site is affected by surface water flooding (across all three surface water events)	High	Development on a site in this risk area is unlikely to be appropriate unless measures (including drainage) are in place to control overland flow.	Sites in these categories should be explicitly addressed in a Sequential Test and may require preparation of further evidence to substantiate that Exception Test can be satisfied. Sites will be expected to follow the same requirements as those laid out in Parts (a) and (b) of the NPPF's Exception Test. Evidence may be required from a Level 2 SFRA to demonstrate that the principle of development is supported.
		A proportion (e.g. <50%) of site is affected by surface water flooding (across all three surface water events)	Medium	Development may be appropriate and consultations should be held with the Lead Local Flood Authority.	
		No risk of surface water flooding	Low	Development is likely to be appropriate based on this criterion.	
Surface Water - Climate change	4 - Climate change 5 - Sources of information used in preparing the SFRA 6 - Understanding the risk in the Rother District	Significant proportion (e.g. greater than 50%) of site at risk of surface water flooding from the future 1% AEP event	High	Development on a site in this risk area is unlikely to be appropriate unless measures (including drainage) are in place to control overland flow.	Sites in these categories should be explicitly addressed in a Sequential Test and may require preparation of further evidence to substantiate that Exception Test can be satisfied. Sites will be expected to follow the same requirements as those laid out in Parts (a) and (b) of the NPPF's Exception Test. Evidence may be required from a Level 2 SFRA to demonstrate that the principle of development is supported.
		A proportion (e.g. less than 50%) of site at risk of surface water flooding from the future 1% AEP event	Medium	Development may be appropriate and consultations should be held with the Lead Local Flood Authority.	
		Site not at risk of surface water flooding from the future 1% AEP event	Low	Development may be appropriate in this risk area, however this will depend on the present-day flood risk - refer to surface water recommendations	
Groundwater	5 - Sources of information used in preparing the SFRA 6 - Understanding the risk in the Rother District	Historic records of groundwater flooding within or near a site	Medium	The effect of this will depend on the location and historic evidence of known problems a site-specific FRA should consider overland flow paths once groundwater has emerged. It is unlikely that infiltration SuDS will be appropriate and groundwater monitoring should be recommended.	Level 2 SFRA or site specific Flood Risk Assessment required to provide evidence that the principle of development is supported.
		Risk of flooding from groundwater is not negligible	Medium	Development might be appropriate but a site-specific FRA should consider groundwater risk. A high likelihood may mean infiltration SuDS are not appropriate and groundwater monitoring should be recommended.	
		Negligible risk of flooding from groundwater	Low	Development is likely to be appropriate in this risk area, however as groundwater datasets are generally produced nationally it is recommended that ground investigations are carried out and reported on within a site-specific FRA where this is required (known to be a problem locally).	
Reservoir inundation	5 - Sources of information used in preparing the SFRA 6 - Understanding the risk in the Rother District	Maximum risk of flooding from reservoir inundation (is greater than 2m depth or 2m/s velocity)	High	Development on a site in this risk area might not be appropriate - this will be heavily dependent on the state of repair of the dam and the long term commitment to its management and maintenance. If development is considered, the local authority Emergency Planning team should be consulted to confirm that proposals can be safely implemented.	Level 2 SFRA or site specific Flood Risk Assessment required to provide evidence that the principle of development is supported.
		Maximum risk of flooding from reservoir inundation (is less than 2 m depth or 2 m/s velocity)	Medium	Risk of flooding from reservoirs should not rule out development as the likelihood of reservoir breach is low, however risk should still be considered by the developer at site-specific FRA stage and an emergency plan is likely to be required. The local authority Emergency Planning team should be consulted.	
		No risk of reservoir inundation	Low	Development is likely to be appropriate in this risk area.	
Historic flood map	5 - Sources of information used in preparing the SFRA 6 - Understanding the risk in the Rother District	Any part of site within historic flood extents	Medium	Sites located in areas that have historically flooded might be appropriate for development, however further investigation will be required regarding the severity and frequency of the historic flooding and accuracy of the historic flood extent. This should be used alongside other information in the Level 1 SFRA to decide whether the site is appropriate for allocation. Technical work will be required to inform this at the site-specific FRA stage.	
		No risk of historic flooding	Low	Development is likely to be appropriate based on this criterion.	
Canal network	6 - Understanding the risk in the Rother District	Site within 100m of a Canal	Medium	Development might be appropriate in areas at risk of flooding from canals (unless the flood risk is fluvial and meets the criteria above). However, the risk should be considered by the developer at site-specific FRA stage and an emergency plan may be required. The Canal and Rivers Trust should be contacted to request information on overtopping and breach locations which could affect the site.	
		Site not within 100m of a Canal	Low	Development is likely to be appropriate based on this criterion.	
Detailed River Network	5 - Sources of information used in preparing the SFRA 6 - Understanding the risk in the Rother District	Any part of site within 20m of a watercourse (from the Detailed River Network dataset)	Medium	Sites located within 20m of the DRN line might be appropriate for development. Where the DRN goes through or adjacent to a site, the Flood Zones and surface water map should also be considered to further determine the effect on development. Where the DRN is located away from a site and land slopes down towards the site, development may be less appropriate than a site where land slopes down towards the watercourse and away from the site.	
		Site not within 20m of a watercourse (from the Detailed River Network dataset)	Low / Medium	Development is likely to be appropriate in this risk area, however not all watercourses are mapped on the Detailed River Network dataset, smaller drains may not be mapped and may need to be considered along with flood risk from other sources.	
Areas benefitting from defence	7 - Fluvial, tidal and coastal flood defences	Any part of the site is within an area benefitting from defence	Advisory	Development in this risk area is normally appropriate in principle, however, the performance of formal defences and residual flood risk will need to be considered and consideration given to the commitment and contributions required to maintain the appropriate standard of protection.	Level 2 SFRA or site specific Flood Risk Assessment required to provide evidence that the principle of development is supported.
		The site is not in an area benefitting from defence	Low	Development is likely to be appropriate in this risk area if there is no risk of flooding from other sources on the site. See other recommendations if there is any risk of flooding.	
Cumulative impacts	12 - Level 1 summary assessment of potential development locations	High - Any part of the site is within a High Cumulative Impact Zone	Medium	Development could be considered as appropriate, however, specific planning policy recommendations may need to be formulated. Drainage and flood risk reduction opportunities will probably need to be considered further within these catchments that may have financial and/or land take implications for the site and allay concerns of existing communities potentially at risk.	Sites found to be within a high cumulative impact zones should be identified within a Level 2 SFRA and Level 2 SFRA site sheets, or a site specific Flood Risk Assessment may be required to provide evidence that the principle of development is supported.
		Medium - Any part of the site is within a Medium Cumulative Impact Zone (unless the site is also within a High Zone)	Low / Medium	Development is likely to be appropriate in these risk areas, however if a Medium score has been identified based on a high amount of development then specific planning policy recommendations may need to be formulated. Drainage and flood risk reduction opportunities may need to be considered further within these catchments that may have financial and/or land take implications for the site.	
		Low - Any site not partially or fully within either High or Medium Cumulative Impact Zones	Low	Development is likely to be appropriate in this risk area.	