

Eliza		

OSNGR: 436377.668,287 Area: 0.68 ha Mixed Brownfield/Greenfield

Sources of flood risk:

- Primary flood risk is from surface water flooding and overland flows.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

Exception Test Required?

Nο

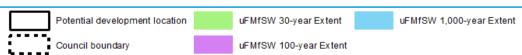
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.



Detention	Mapping suggests that the site slopes are suitable for all forms of detention.
Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUN006	
OSNGR:	433288.978,291	Area: 1.06 ha	Majority Greenfield

- Primary flood risk is from surface water flooding and overland flows.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

Exception Test Required?

No

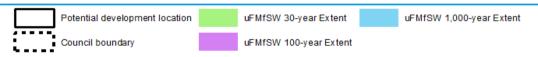
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.



Detention	This option may be feasible provided site slopes are < 5% at the location of the detention feature. A liner maybe required if there any ground contamination issues.
Filtration	This feature is probably suitable provided site slopes are <5% and the depth to the water table is >1m. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
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There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

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- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
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- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUN015	
OSNGR:	436458.776,290	Area: 0.48 ha	Greenfield

- Sources of flood risk:
- Primary flood risk is from surface water flooding and overland flows.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

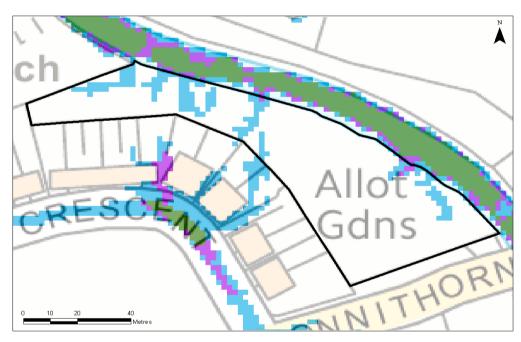
Exception Test Required?

No

NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
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Potential development location	uFMfSW 30-year Extent	uFMfSW 1,000-year Extent
Council boundary	uFMfSW 100-year Extent	

SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.



Detention	Mapping suggests that the site slopes are suitable for all forms of detention.
Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

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Flood Warning:

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Climate Change:

· Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- Assessment for runoff should include allowance for climate change effects.
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- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUN043	
OSNGR:	434089.72.2910	Area: 0.68 ha	Maiority Brownfield

- Mapping shows the site is not at risk from surface water flooding.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

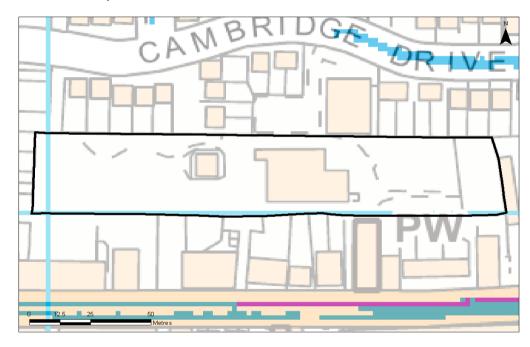
Exception Test Required?

Nο

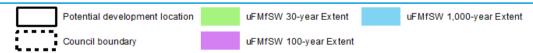
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Climate Change:

· Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
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- o Creating space for flooding.



		NUN047	
OSNGR:	436767.228,291	Area: 0.46 ha	Brownfield

- Primary flood risk is from surface water flooding and overland flows.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

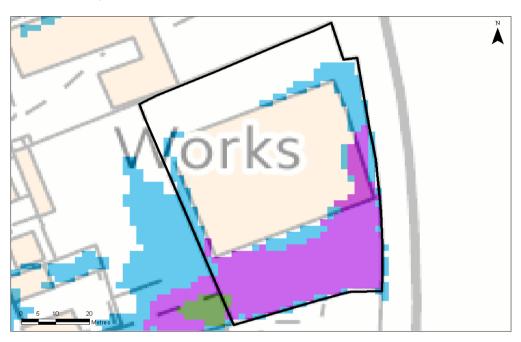
Exception Test Required?

No

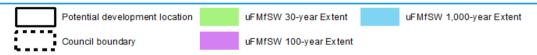
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Detention		Mapping suggests that the site slopes are suitable for all forms of detention.



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

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- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

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Climate Change:

Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
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- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUN051	
OSNGR:	436721.66,2916	Area: 0.29 ha	Brownfield

- Primary flood risk is from surface water flooding and overland flows.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

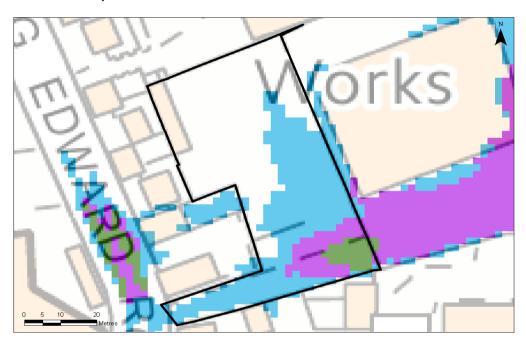
Exception Test Required?

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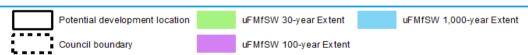
NPPF Guidance:

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- The site is not located within any Environment Agency designated ground source protection zones.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUN060	
OSNGR:	436502.065,287	Area: 0.23 ha	Brownfield

- Mapping shows the site is not at risk from surface water flooding
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

Exception Test Required?

No

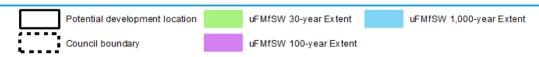
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
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Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- · New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUN061	
OSNGR:	433325,286519	Area: 0.25 ha	Greenfield

- Mapping shows the site is not at risk from surface water flooding.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

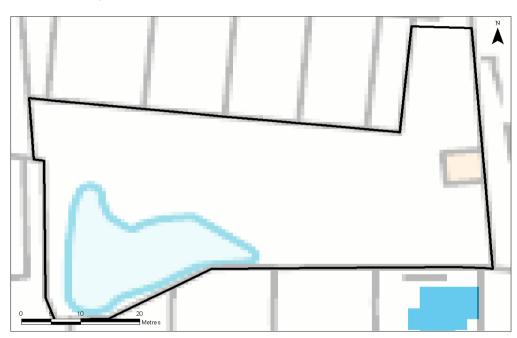
Exception Test Required?

No

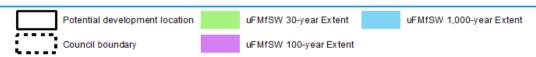
NPPF Guidance:

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SuDS Type	Suitability	Comments
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Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
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Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

· Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
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- o Reducing volume and rate of runoff
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- o Creating space for flooding.



		NUN065	
OSNGR:	439674.462,286	Area: 0.31 ha	Brownfield

- Primary flood risk is from surface water flooding and overland flows.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

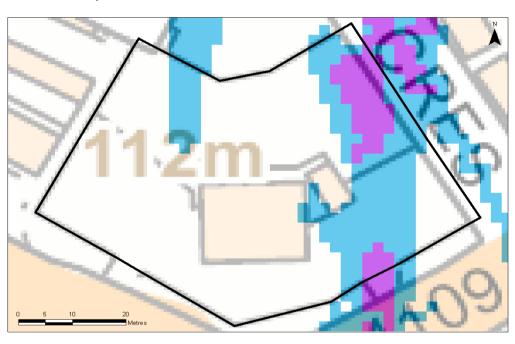
Exception Test Required?

No

NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
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	Potential development location	uFMfSW 30-year Extent	uFMfSW 1,000-year Extent
(Council boundary	uFMfSW 100-year Extent	

SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests that there is a possibility of groundwater flooding at this location, therefore it is possible infiltration techniques will not be suitable. This should be confirmed via site investigations to assess the potential for infiltration.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

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		NUN068	
OSNGR:	435258.104,286	Area: 0.24 ha	Brownfield

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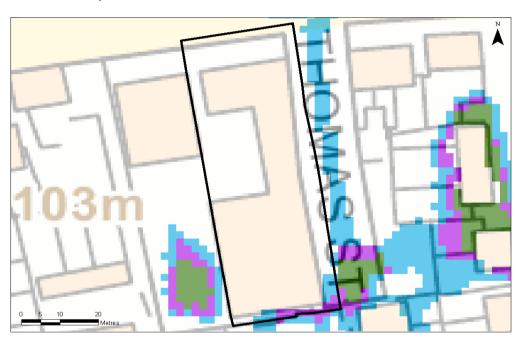
Exception Test Required?

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NPPF Guidance:

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		NUN074	
OSNGR:	435234.125,286	Area: 0.16 ha	Brownfield

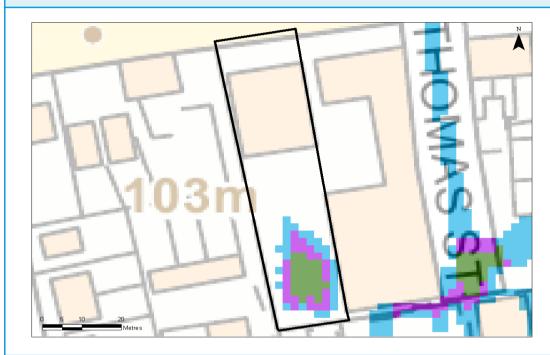
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Exception Test Required?

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 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.



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	Potential development location	uFMfSW 30-year Extent	uFMfSW 1,000-year Extent
:	Council boundary	uFMfSW 100-year Extent	

O. DO T	Control illino	0
SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



	NUN075			
OSNGR:	435617.427,286	Area: 0.14 ha	Greenfield	

- Mapping shows the site is not at risk from surface water flooding.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

Exception Test Required?

No

NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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	Potential development location	uFMfSW 30-year Extent	uFMfSW 1,000-year Extent
:	Council boundary	uFMfSW 100-year Extent	

SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests that there is a possibility of groundwater flooding at this location, therefore it is possible infiltration techniques will not be suitable. This should be confirmed via site investigations to assess the potential for infiltration.
Detention		Mapping suggests that the site may be too steep to allow 'above ground' detention features to be used at this development.



Filtration	Mapping suggests that there may be steep slopes within the site; however, filtration features may be suitable provided site slopes are <5% and the depth to the water table is >1m.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

· Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



	NUN087			
OSNGR:	433256.972,286	Area: 0.14 ha	Brownfield	

- Mapping shows the site is not at risk from surface water flooding.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

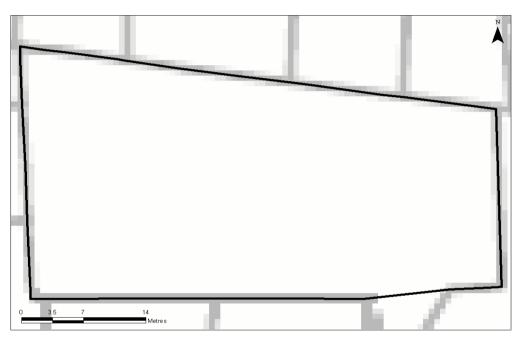
Exception Test Required?

No

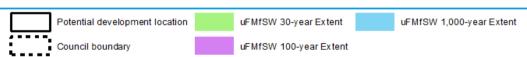
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

· Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



	NUN088		
OSNGR:	437040.848,290	Area: 0.03 ha	Brownfield

- Mapping shows the site is not at risk from surface water flooding.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

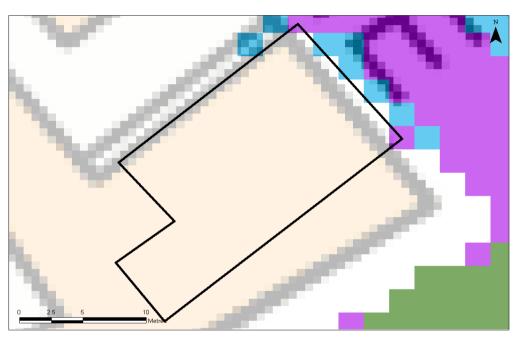
Exception Test Required?

No

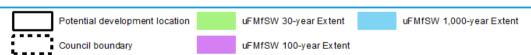
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments	
Source Control		All forms of source control are likely to be suitable.	
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.	
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.	



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

· Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



	NUN119_147			
OSNGR:	436271 285272	Area: 28.8 ha	Greenfield	

- Primary flood risk is from surface water flooding and overland flows.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

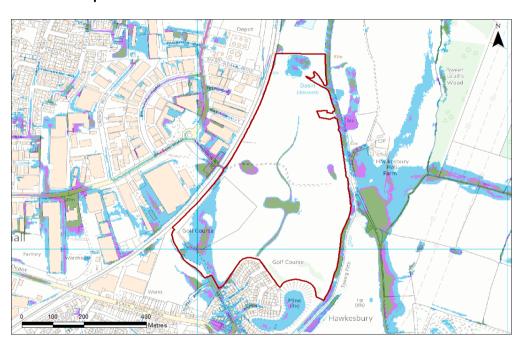
Exception Test Required?

No

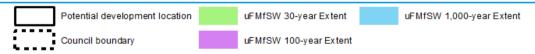
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		This option may be feasible provided site slopes are < 5% at the location of the detention feature. A liner maybe required if there any ground contamination issues.



Filtration	This feature is probably suitable provided site slopes are <5% and the depth to the water table is >1m. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located within a groundwater source protection zone.
- The site is bordered by several landfill areas. Investigation and consultation with the Environment Agency may be needed to assess the risk of contamination.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

· Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



NUN174					
OSNGR:	436802,287850	Area: 2.18 ha		Greenfield	
Flood Zone Coverage:		FZ3b	FZ3a	FZ2	FZ1
		0%	3%	1%	96%

- Primary flood risk fluvial from Wem Brookl, resulting from overtopping of the watercourse channel. Wem Brook flows along the south east site boundary.
- · With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

Exception Test Required?

Yes, for Essential infrastructure development in FZ3b, Essential infrastructure and More Vulnerable development in FZ3a and Highly Vulnerable development in FZ2.

Highly Vulnerable infrastructure should not be permitted within FZ3a. Highly Vulnerable, More Vulnerable and Less Vulnerable infrastructure should not be permitted within FZ3b.

NPPF Guidance:

- To pass Part 'b' of the Exception Test, a FRA should demonstrate that the development will be safe, will avoid increasing flood risk elsewhere and will reduce flood risk overall.
- · Preference should be given to locating development outside the flooded areas, which flows along the south westerly boundary of the development site. It should be possible to reduce flood risk at this location by using sequential design to locate more vulnerable development towards higher ground, through building design and by meeting drainage requirements. Some resilience measures may be required if buildings are situated in the flood risk area.
- · Consultation with the Local Authority and the Environment Agency should be undertaken at an early stage.

Flood Zone Map

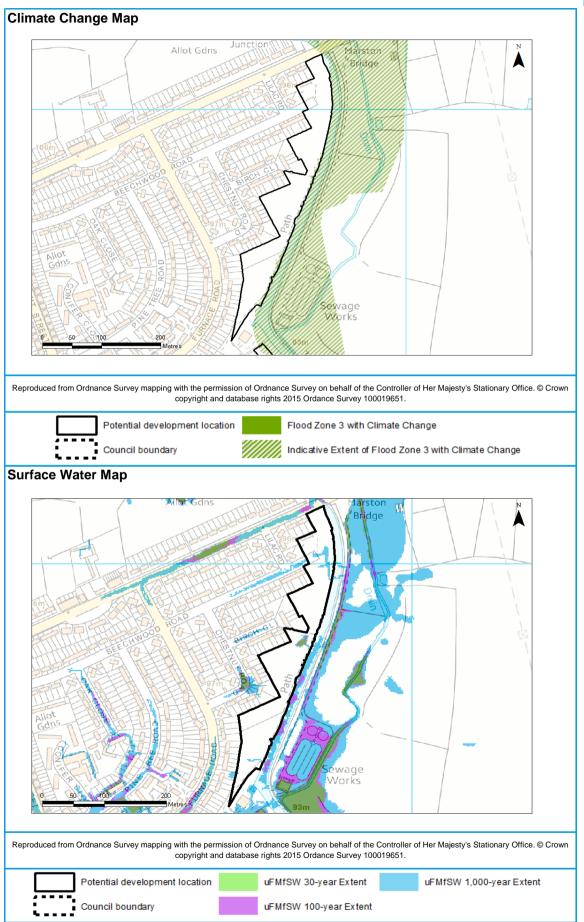


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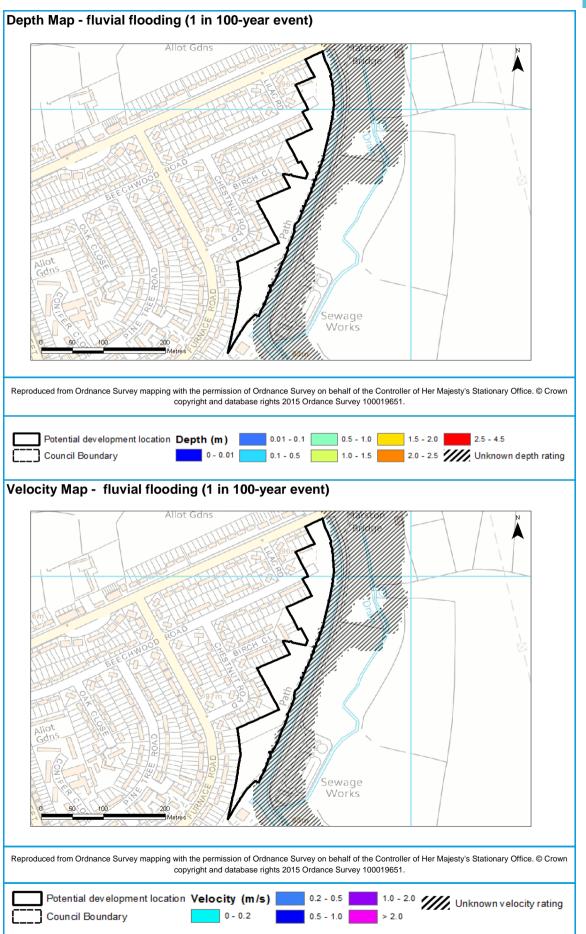
Note: Indicative flood extents have been used to represent FZ3b in certain locations. For more information please refer to section 10 in the main report.



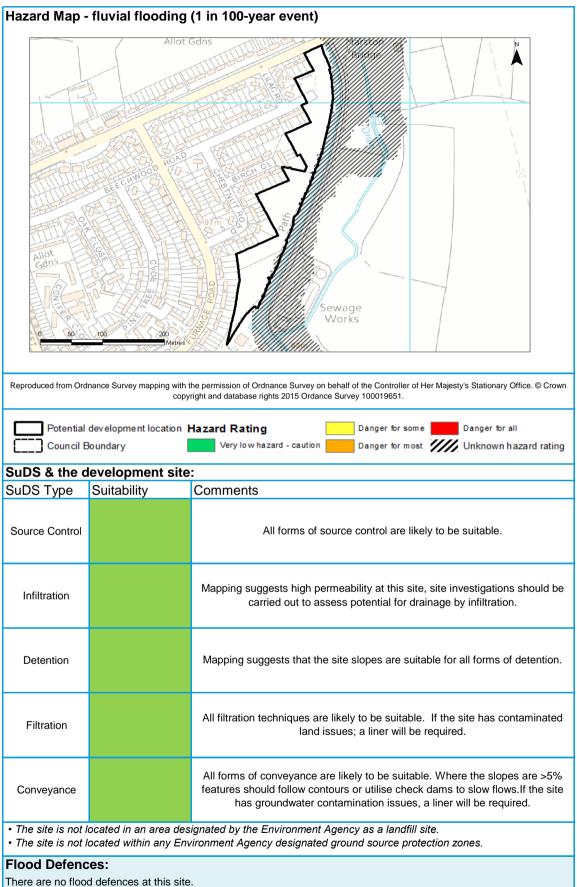












Flood Warning:

There are currently no flood warning areas covering this site.



Climate Change:

- Increased storm intensities.
- · Increased water levels in the Wem Brook

- Only a small proportion of the development site is affected by flood levels, therefore all development should be located within Flood Zone 1, unless appropriate in accordance with NPPF Planning Practice Guidance. Also with a larger region in the south of the development site is located in Flood Zone 2 new infrastructure should be designed to not increase flood risk in these regions during large rainfall events.
- · Consideration of the peak flows on the Wem Brook and its durations required when considering drainage.
- A site specific flood risk assessment will be required for any development in Flood Zone 2 and 3.
- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the Wem Brook to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- · New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.
- Consider using Flood Zone 2 and 3as public open space.



		NUN181	
OSNGR:	435922.774,284	Area: 2.77 ha	Greenfield

- Primary flood risk is from surface water flooding and overland flows.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

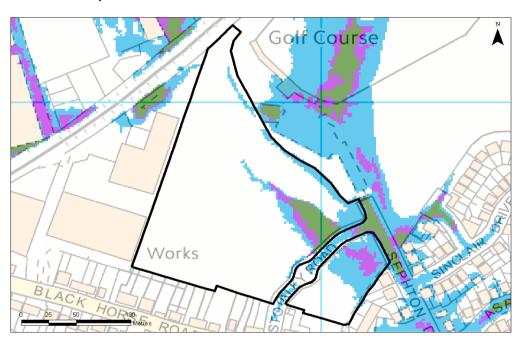
Exception Test Required?

No

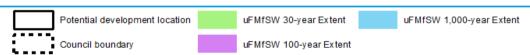
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

· Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUI	N182		
OSNGR:	SP349863	Area:	3.7 ha	Gree	nfield
Flood Zone Coverage:		FZ3b	FZ3a	FZ2	FZ1
		0%	0%	4%	96%

- Primary fluvial flood risk is from the River Sowe to the north of the site.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

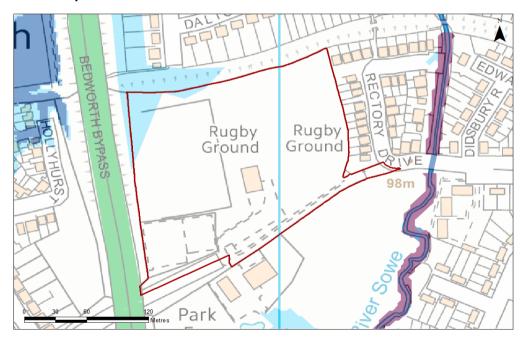
Exception Test Required?

Yes, for Highly Vulnerable development in FZ2.

NPPF Guidance:

- To pass Part 'b' of the Exception Test, a FRA should demonstrate that the development will be safe, will avoid increasing flood risk elsewhere and will reduce flood risk overall.
- Preference should be given to locating development outside the flooded areas, located adjacent to the Coventry Canal, which flows along the south westerly boundary of the development site. It should be possible to reduce flood risk at this location by using sequential design to locate more vulnerable development towards higher ground, through building design and by meeting drainage requirements. Some resilience measures may be required if buildings are situated in the flood risk area.
- · Consultation with the Local Authority and the Environment Agency should be undertaken at an early stage.

Flood Zone Map

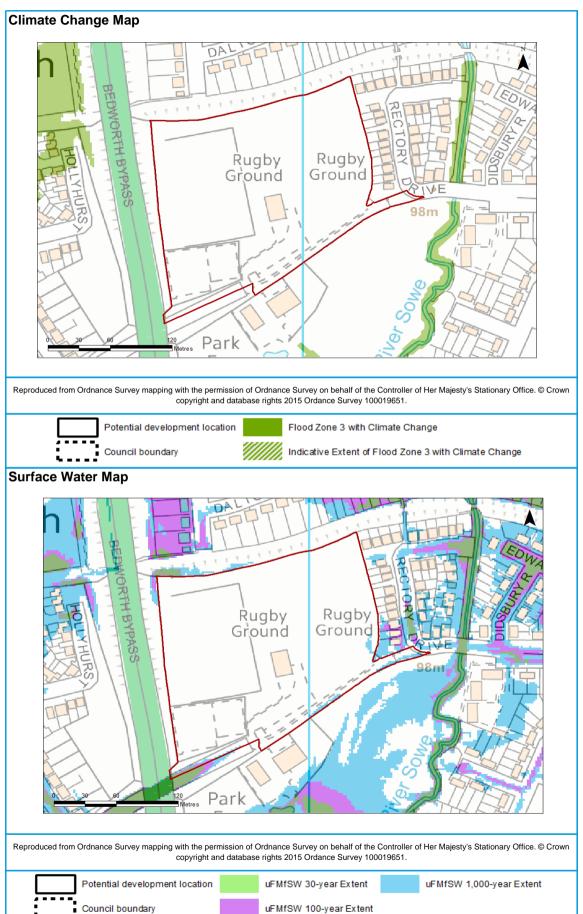


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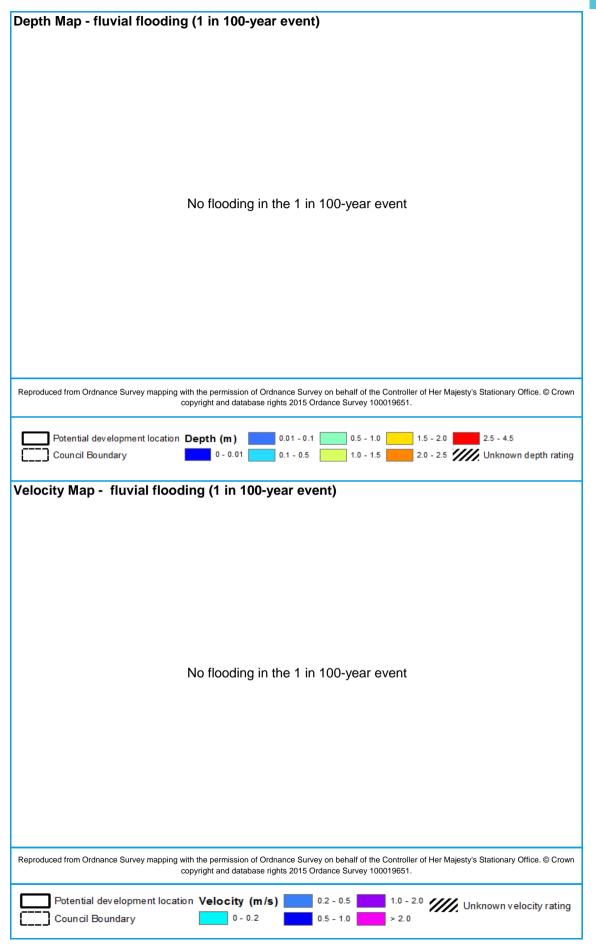
Note: Indicative flood extents have been used to represent FZ3b in certain locations. For more information please refer to section 10 in the main report.













Hazard Map -	Hazard Map - fluvial flooding (1 in 100-year event)		
	No	o flooding in the 1 in 100-year event	
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Council E	development location Boundary	Very low hazard - caution Danger for most Unknown hazard rating	
SuDS & trie of	Suitability	Comments	
Source Control		All forms of source control are likely to be suitable.	
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.	
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.	
Filtration		All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.	
Conveyance		All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.	
The site is not I	 The site is not located in an area designated by the Environment Agency as a landfill site. The site is not located within any Environment Agency designated ground source protection zones. 		
Flood Defences: There are no flood defences at this site.			
Flood Warnin There are current	ig: ly no flood warning are	eas covering this site.	



Climate Change:

- Increased storm intensities.
- · Increased water levels in the River Sowe.

- Only a small proportion of the development site is affected by flood levels, therefore all development should be located within Flood Zone 1, unless appropriate in accordance with NPPF Planning Practice Guidance.
- Consideration of the peak flows on the River Sowe and its durations required when considering drainage.
- A site specific flood risk assessment will be required for any development in Flood Zone 2.
- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the River Sowe to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.
- · Consider using Flood Zone 2 as public open space.



		NUN227	
OSNGR:	435117.107,290	Area: 0.43 ha	Brownfield

- Primary flood risk is from surface water flooding and overland flows.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

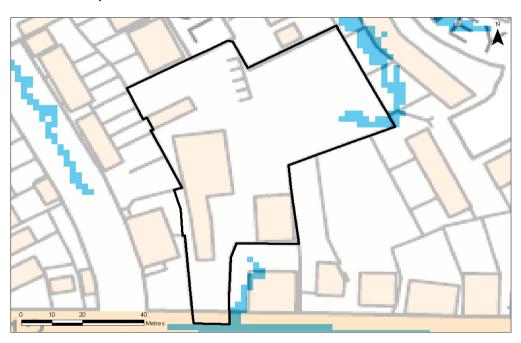
Exception Test Required?

Nο

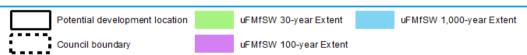
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

· Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUN236	
OSNGR:	431691,284798	Area: 0.13 ha	Greenfield

- Mapping shows the site is not at risk from surface water flooding.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

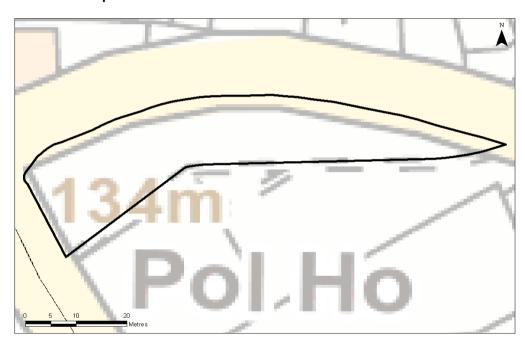
Exception Test Required?

No

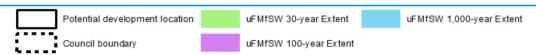
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is located with a groundwater protection zone. As such inflitration techniques should only be used used where there are suitable levels of treatment although it is possible that infiltration may not be permitted. Proposed SuDS should be discussed with relevant stakeholders (LPA, LLFA and EA) at an early stage to understand possible constraints.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

· Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUN239	
OSNGR:	435172,286023	Area: 0.21 ha	Brownfield

- Primary flood risk is from surface water flooding and overland flows.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

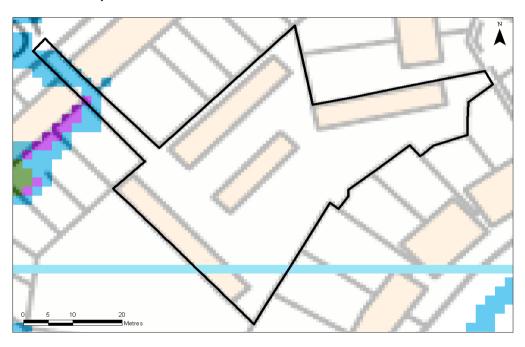
Exception Test Required?

Nο

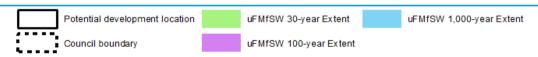
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		This option may be feasible provided site slopes are < 5% at the location of the detention feature. A liner maybe required if there any ground contamination issues.



Filtration	This feature is probably suitable provided site slopes are <5% and the depth to the water table is >1m. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUN241	
OSNGR:	436519.614,291	Area: 0.16 ha	Brownfield

- Mapping shows the site is not at risk from surface water flooding.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

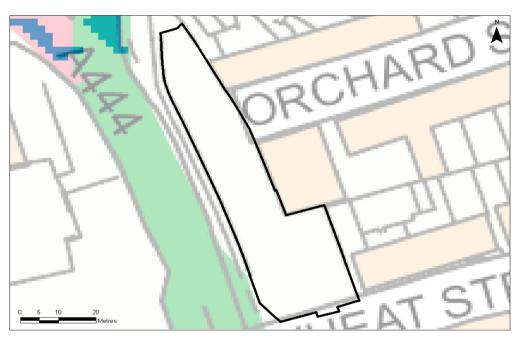
Exception Test Required?

The exception test is not required for this site.

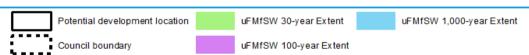
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		This option may be feasible provided site slopes are < 5% at the location of the detention feature. A liner maybe required if there any ground contamination issues.



Filtration	This feature is probably suitable provided site slopes are <5% and the depth to the water table is >1m. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUN242	
OSNGR:	436198.358.284	Area: 0.14 ha	Mixed Brownfield/Greenfield

- Primary flood risk is from surface water flooding and overland flows.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

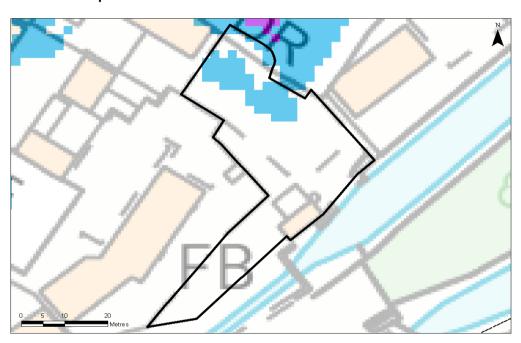
Exception Test Required?

No

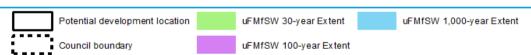
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		This option may be feasible provided site slopes are < 5% at the location of the detention feature. A liner maybe required if there any ground contamination issues.



Filtration	This feature is probably suitable provided site slopes are <5% and the depth to the water table is >1m. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUN245	
OSNGR:	433426,291061	Area: 0.25 ha	Brownfield

- Mapping shows this site is not at risk from surface water flooding
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

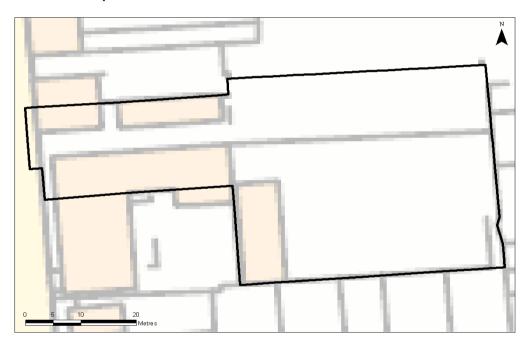
Exception Test Required?

Nο

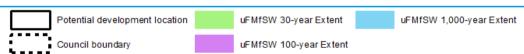
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUN258	
OSNGR:	437018,290734	Area: 0.11 ha	Brownfield

- Primary flood risk is from surface water flooding and overland flows.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

Exception Test Required?

No

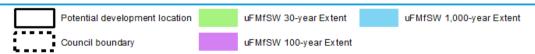
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- · New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUN263	
OSNGR:	435750.086,286	Area: 0.13 ha	Brownfield

- Mapping shows this site is not at risk from surface water flooding.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

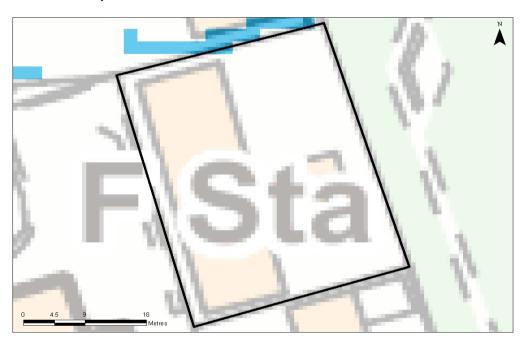
Exception Test Required?

Nο

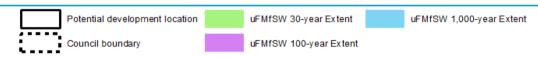
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests that there is a possibility of groundwater flooding at this location, therefore it is possible infiltration techniques will not be suitable. This should be confirmed via site investigations to assess the potential for infiltration.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUN286	
OSNGR:	433868,284233	Area: 3.51 ha	Greenfield

- Sources of flood risk:
- Primary flood risk is from surface water flooding and overland flows.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

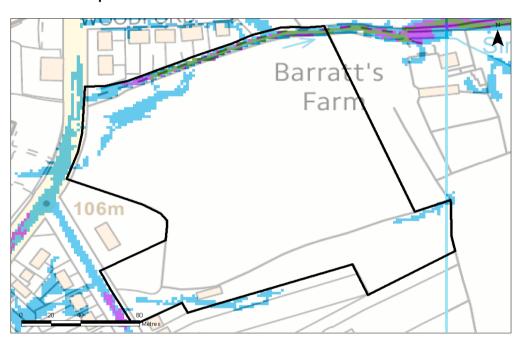
Exception Test Required?

No

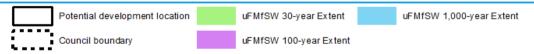
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests that there is a possibility of groundwater flooding at this location, therefore it is possible infiltration techniques will not be suitable. This should be confirmed via site investigations to assess the potential for infiltration.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

· Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUN302	
OSNGR:	433489.223,292	Area: 0.28 ha	Greenfield

- Mapping shows the site is not at risk from surface water flooding.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

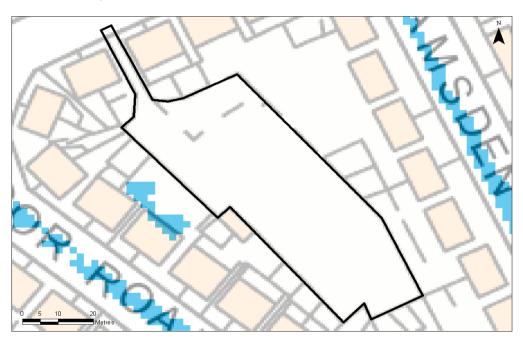
Exception Test Required?

Nο

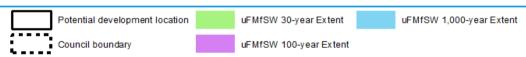
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



		NUN305	
OSNGR:	433060.343,293	Area: 1.92 ha	Greenfield

- Sources of flood risk:
- Primary flood risk is from surface water flooding and overland flows.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

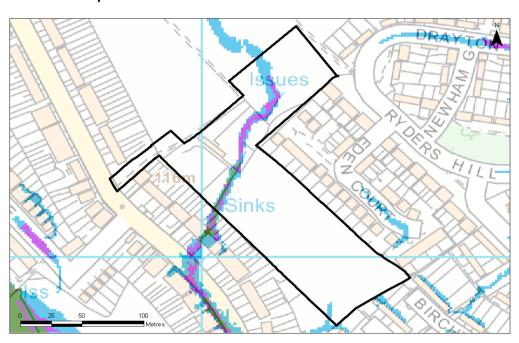
Exception Test Required?

No

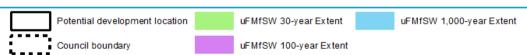
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		This option may be feasible provided site slopes are < 5% at the location of the detention feature. A liner maybe required if there any ground contamination issues.



Filtration	This feature is probably suitable provided site slopes are <5% and the depth to the water table is >1m. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



NUN317				
OSNGR: 433915,284140 Area: 1.62 ha Majority G	3reenfield			

- Primary flood risk is from surface water flooding and overland flows.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

Exception Test Required?

No

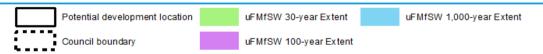
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests that there is a possibility of groundwater flooding at this location, therefore it is possible infiltration techniques will not be suitable. This should be confirmed via site investigations to assess the potential for infiltration.



Detention	Mapping suggests that the site slopes are suitable for all forms of detention.
Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



NUN318				
OSNGR:	438579,288688	Area: 1.48 ha	Brownfield	

- Mapping shows the site is not at risk from surface water flooding.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

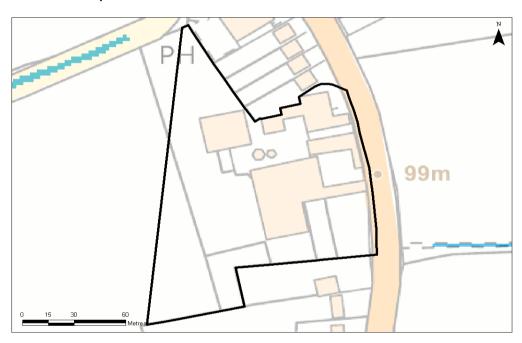
Exception Test Required?

No

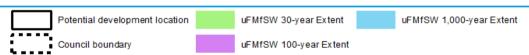
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



NUN323							
OSNGR: 436769,287538 Area: 0.14 ha Brownfield							
Flood Zone Coverage:		FZ3b	FZ3a	FZ2	FZ1		
		0%	21%	21%	58%		

- Primary flood risk fluvial from Wem Brook, resulting from overtopping of the watercourse channel. Wem Brook flows along the north east site boundary.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

Exception Test Required?

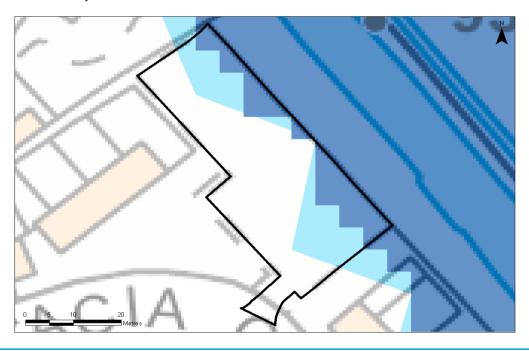
Yes, for Essential infrastructure development in FZ3b, Essential infrastructure and More Vulnerable development in FZ3a and Highly Vulnerable development in FZ2.

Highly Vulnerable infrastructure should not be permitted within FZ3a. Highly Vulnerable, More Vulnerable and Less Vulnerable infrastructure should not be permitted within FZ3b.

NPPF Guidance:

- To pass Part 'b' of the Exception Test, a FRA should demonstrate that the development will be safe, will avoid increasing flood risk elsewhere and will reduce flood risk overall.
- Preference should be given to locating development outside the flooded areas, located adjacent to the Wem Brook, which flows along the south westerly boundary of the development site. It should be possible to reduce flood risk at this location by using sequential design to locate more vulnerable development towards higher ground, through building design and by meeting drainage requirements. Some resilience measures may be required if buildings are situated in the flood risk area.
- · Consultation with the Local Authority and the Environment Agency should be undertaken at an early stage.

Flood Zone Map



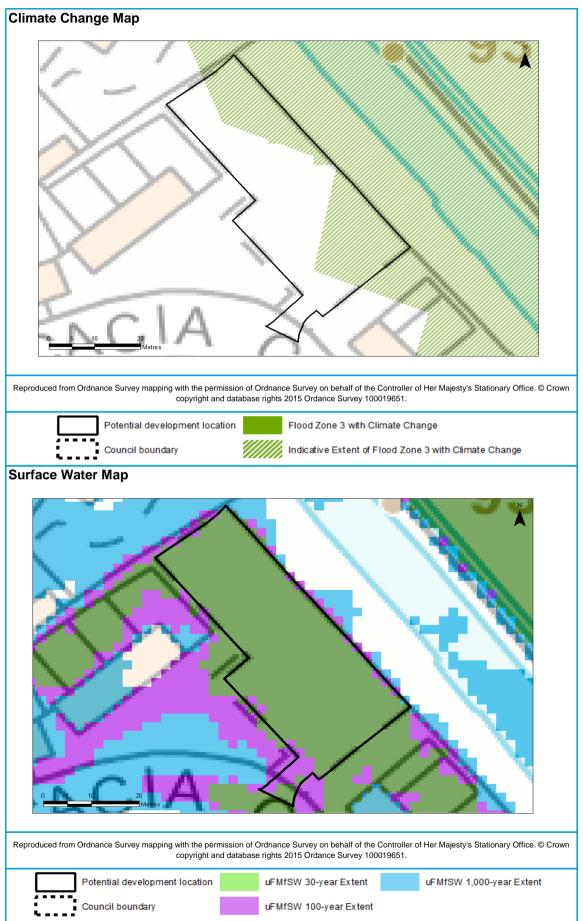
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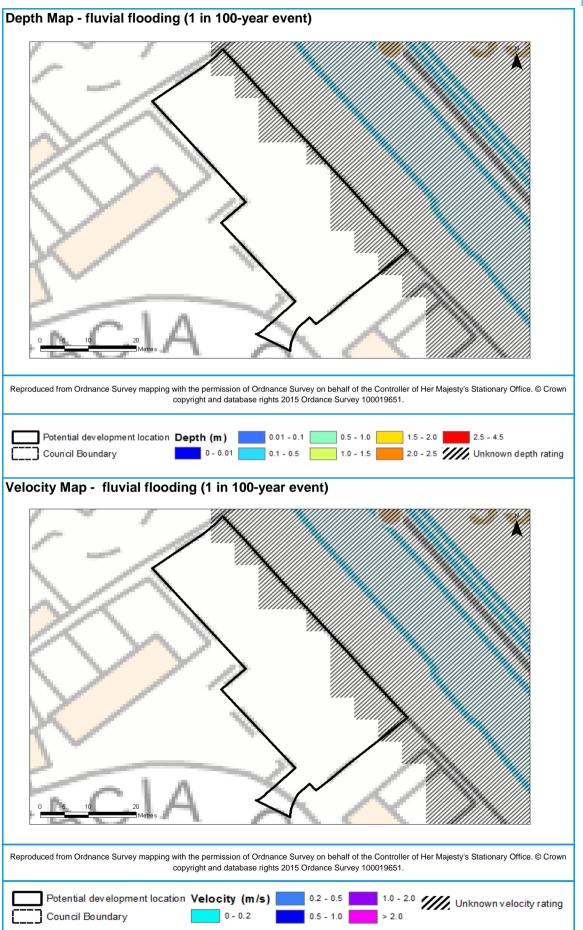
Note: Indicative flood extents have been used to represent FZ3b in certain locations. For more information please refer to section 10 in the main report.













Hazard Map - fluvial flooding (1 in 100-year event) Reproduced from Ordnance Survey mapping with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office. © Crown copyright and database rights 2015 Ordance Survey 100019651. Potential development location Hazard Rating Council Boundary Very low hazard - caution Danger for most ///// Unknown hazard rating SuDS & the development site: SuDS Type Suitability Comments Source Control All forms of source control are likely to be suitable. Mapping suggests high permeability at this site, site investigations should be Infiltration carried out to assess potential for drainage by infiltration. Detention Mapping suggests that the site slopes are suitable for all forms of detention. All filtration techniques are likely to be suitable. If the site has contaminated Filtration land issues; a liner will be required. All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site Conveyance has groundwater contamination issues, a liner will be required. • The site is not located in an area designated by the Environment Agency as a landfill site. • The site is not located within any Environment Agency designated ground source protection zones. Flood Defences:

There are no flood defences at this site.

There are currently no flood warning areas covering this site.

Flood Warning:



Climate Change:

- Increased storm intensities.
- · Increased water levels in the Wem Brook.

- Only a small proportion of the development site is affected by flood levels, therefore all development should be located within Flood Zone 1, unless appropriate in accordance with NPPF Planning Practice Guidance. Also with a larger region in the south of the development site is located in Flood Zone 2 new infrastructure should be designed to not increase flood risk in these regions during large rainfall events.
- · Consideration of the peak flows on the Wem Brook and its durations required when considering drainage.
- A site specific flood risk assessment will be required for any development in Flood Zone 2 and 3.
- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the Wem Brook to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.
- Consider using Flood Zone 2 and 3as public open space.



NUN348				
OSNGR:	434139,291947	Area: 0.28 ha	Greenfield	

- Mapping shows the site is not at risk from surface water flooding.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

Exception Test Required?

No

NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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Potential development location	uFMfSW 30-year Extent	uFMfSW 1,000-year Extent
Council boundary	uFMfSW 100-year Extent	

SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- This site has areas within its boundary designated by the Environment Agency as being a landfill site. A thorough ground investigation will be required as part of a detailed FRA to determine the extent of the contamination and the impact this may have on SuDS. As such proposed SuDS should be discussed with the relevant stakeholders (LPA, LLFA and EA) at an early stage to understand possible constraints.
- The site is not located within any Environment Agency designated ground source protection zones.

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

· Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.



NUN350							
OSNGR:	OSNGR: 436962,289900 Area: 0.11 ha Mixed Brownfield/Greenfield						
Flood Zone Coverage:		FZ3b	FZ3a	FZ2	FZ1		
		0%	0%	1%	99%		

- Primary fluvial flood risk is from Griff Brook to the south of the site resulting from overtopping of the watercourse channels. Griff Brook flows in eastern direction.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

Exception Test Required?

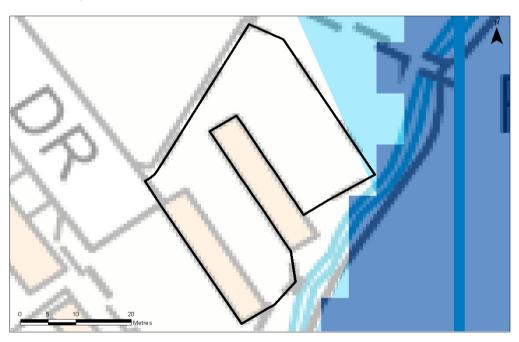
Yes, for Essential infrastructure development in FZ3b, Essential infrastructure and More Vulnerable development in FZ3a and Highly Vulnerable development in FZ2.

Highly Vulnerable infrastructure should not be permitted within FZ3a. Highly Vulnerable, More Vulnerable and Less Vulnerable infrastructure should not be permitted within FZ3b.

NPPF Guidance:

- To pass Part 'b' of the Exception Test, a FRA should demonstrate that the development will be safe, will avoid increasing flood risk elsewhere and will reduce flood risk overall.
- Preference should be given to locating development outside the flooded areas, located adjacent to the Coventry Canal, which flows along the south westerly boundary of the development site. It should be possible to reduce flood risk at this location by using sequential design to locate more vulnerable development towards higher ground, through building design and by meeting drainage requirements. Some resilience measures may be required if buildings are situated in the flood risk area.
- · Consultation with the Local Authority and the Environment Agency should be undertaken at an early stage.

Flood Zone Map

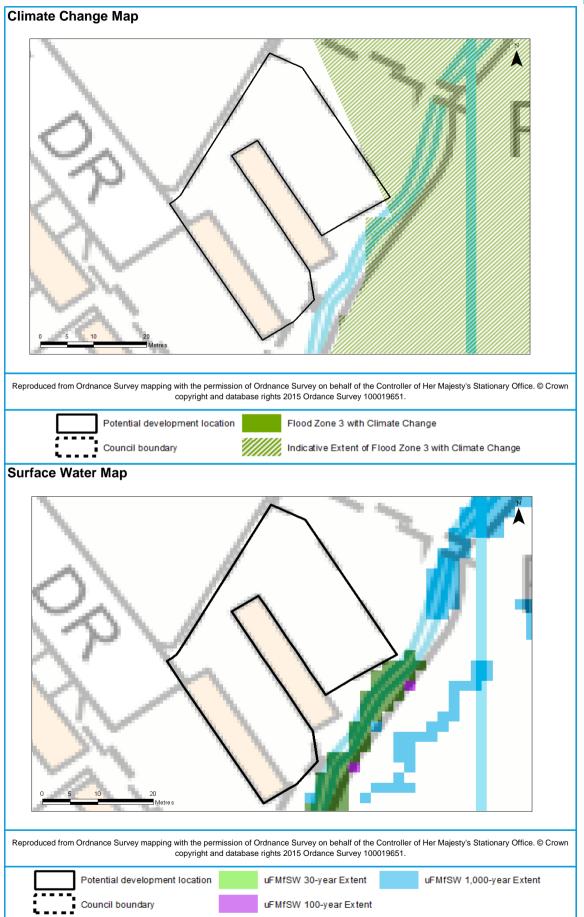


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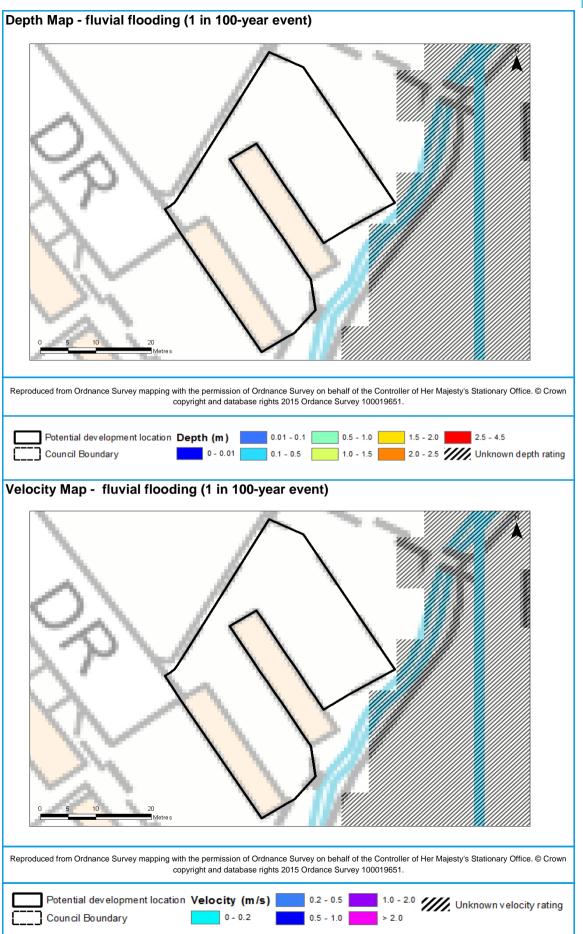
Note: Indicative flood extents have been used to represent FZ3b in certain locations. For more information please refer to section 10 in the main report.



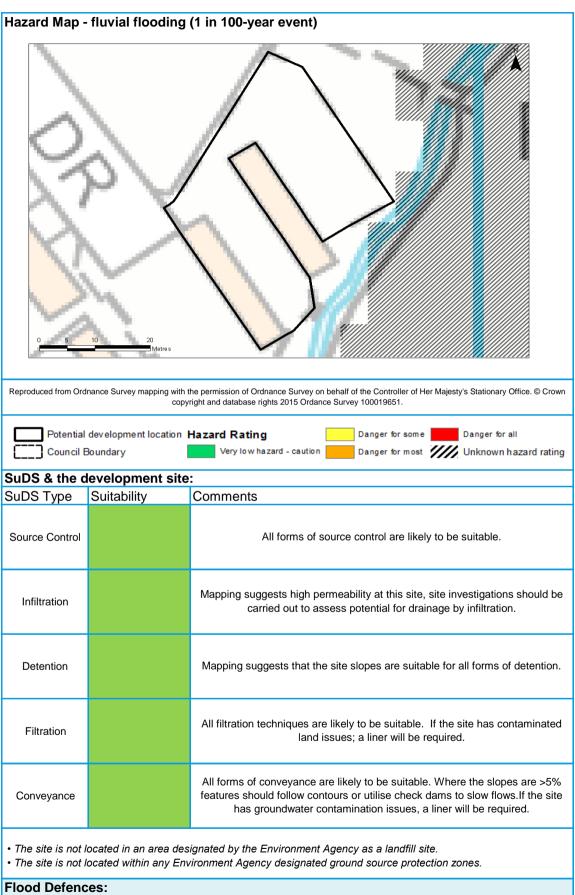












There are no flood defences at this site.

There are currently no flood warning areas covering this site.

Flood Warning:



Climate Change:

- Increased storm intensities.
- · Increased water levels in the Griff Brook.

- Only a small proportion of the development site is affected by flood levels, therefore all development should be located within Flood Zone 1, unless appropriate in accordance with NPPF Planning Practice Guidance. Also with a larger region in the south of the development site is located in Flood Zone 2 new infrastructure should be designed to not increase flood risk in these regions during large rainfall events.
- · Consideration of the peak flows on the Griff Brook and its durations required when considering drainage.
- A site specific flood risk assessment will be required for any development in Flood Zone 2 and 3.
- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the Griff Brook to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.
- Consider using Flood Zone 2 and 3as public open space.



	NUN352		
OSNGR:	435435,287430	Area: 0.14 ha	Majority Brownfield

- Mapping shows the site is not at risk from surface water flooding.
- With further development and creation of impermeable ground surfaces, surface water flooding may become a problem.

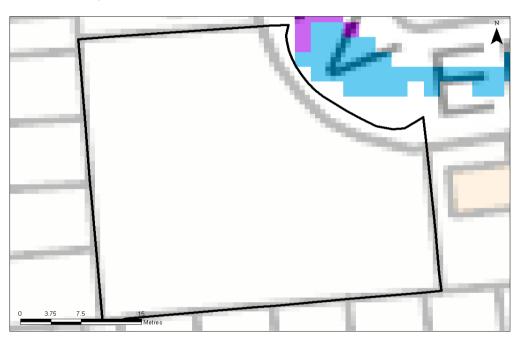
Exception Test Required?

No

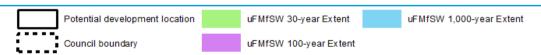
NPPF Guidance:

- For development proposals on sites comprising one hectare or above in Flood Zone 1 the vulnerability of flooding
 from other sources as well as from river flooding should be incorporated into a FRA. The potential to increase flood risk
 elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off must
 be included.
- Developers and local authorities should seek opportunities to reduce the overall level of flood risk in the area and beyond through the layout and form of the development and through appropriate sustainable drainage techniques.

Surface Water Map



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SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Mapping suggests high permeability at this site, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.



Filtration	All filtration techniques are likely to be suitable. If the site has contaminated land issues; a liner will be required.
Conveyance	All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has groundwater contamination issues, a liner will be required.

- The site is not located in an area designated by the Environment Agency as a landfill site.
- The site is not located within any Environment Agency designated ground source protection zones.

Flood Warning:

There are currently no flood warning areas covering this site.

Climate Change:

· Increased storm intensities.

- Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.
- · Assessment for runoff should include allowance for climate change effects.
- New or re-development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.
- Onsite attenuation schemes would need to be tested against the hydrograph of the receiving watercourse to ensure flows are not exacerbated downstream within the catchment.
- Demonstration that development at this location can be made safe.
- New development must seek opportunities to reduce overall level of flood risk at the site for example by:
- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.