





• Further development and creation of impermeable surfaces may result in an increase of surface water flood risk.

| SuDS & the d | levelopment site | : | | |
|--|----------------------|--|--|--|
| SuDS Type | Suitability | Comments | | |
| Source Control | | Most source control techniques are likely to be suitable. Mapping suggests that permeable paving is unlikely to be suitable due to the slope of the site. | | |
| Infiltration | | Mapping suggests low permeability in this area possibly making the infiltration techniques unsuitable. Further site investigation should be carried out to assess potential for drainage by infiltration. If infiltration is suitable it should be avoided in areas where the depth to the water table is <1m. | | |
| Detention | | Mapping suggests that the site will be too steep to allow 'above ground' detention features to be used at this development. | | |
| Filtration | | This feature is probably suitable provided site slopes are <5% and the depth to the water table is >1m. A liner maybe required to prevent the egress of groundwater. | | |
| 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. | | |
| Residential | developments sho | ould provide at least two independent SuDS features in series to | | |
| provide a suita | able level of water | quality treatment. | | |
| • The site is n | lot located in an a | rea designated as a landfill site. | | |
| I ne site is n | iot located within a | a groundwater source protection zone. | | |
| Flood Detences: | | | | |
| Flood Warnin | noou delences at | | | |
| There are currently no flood warning areas covering this site. | | | | |
| Access & Egress: | | | | |
| Existing information suggests there are no access or egress issues for the site. | | | | |
| Climate Char | nge: | | | |
| Increased st | orm 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.
Development should adopt exemplar source control SuDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.

• New development must seek opportunities to reduce overall level of flood risk at the site, for example by:





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| SuDS & the d | levelopment site | : | | |
|--|----------------------------------|--|--|--|
| 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. | | |
| 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. | | |
| Residential c | levelopments sho | uld provide at least two independent SuDS features in series to | | |
| provide a suita | able level of water | quality treatment. | | |
| • The site is no | ot located in an ar | ea designated as a landfill site. | | |
| I he site is no | ot located within a | groundwater source protection zone. | | |
| Flood Detend | es: | this site | | |
| Flood Warnin | | | | |
| There are cur | '9. rently no flood wa | rning areas covering this site | | |
| Access & Eq | ress: | | | |
| Existing inform | nation suggests th | here are no access or egress issues for the site. | | |
| Climate Char | ige: | | | |
| Increased st | orm intensities. | | | |
| Flood Risk Implications for Development: | | | | |
| 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. | | | | |
| Development should adopt exemplar source control SUDS techniques to reduce the risk of frequent low impact flooding due to pact development runoff | | | | |
| New development must seek opportunities to reduce overall level of flood risk at the site for | | | | |
| example by: | | | | |
| o Reducing | volume and rate of | of runoff | | |
| | | | | |







• Further development and creation of impermeable surfaces may result in an increase of surface water flood risk.

| SuDS & the development site: | | | | |
|---|---------------------|--|--|--|
| 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. | | |
| 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. | | |
| Residential d | levelopments sho | uld provide at least two independent SuDS features in series to | | |
| provide a suita | able level of water | quality treatment. | | |
| The site is no | ot located in an ar | ea designated as a landfill site. | | |
| The site is no Elood Defense | | groundwater source protection zone. | | |
| There are no f | ilood defences at | this site | | |
| Flood Warnin | | | | |
| There are curr | rently no flood wa | rning areas covering this site. | | |
| Access & Egi | ress: | | | |
| Existing inform | nation suggests th | nere are no access or egress issues for the site. | | |
| Climate Chan | ige: | | | |
| Increased store | orm intensities. | | | |
| Flood Risk Implications for Development: | | | | |
| Green initiastructure 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. | | | | |
| • 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 | | | | |

| East of Hederman Close, Silverton | | | | | |
|-----------------------------------|---------------|-------------------------|------|-----|--------|
| OSNGR: | 296125,102757 | Area: 1.84ha Greenfield | | | nfield |
| Flood Zone Coverage: | | FZ3b | FZ3a | FZ2 | FZ1 |
| | | 0% | 0% | 0% | 100% |

Exception Test Required?

The proposed land use for this site is residential which has a flood risk vulnerability class of 'More Vulnerable'.

Existing information shows this site to be 100% in Flood Zone 1. However, the Heal-eye Stream flows to the west of the site, for which flood zone information is not available. Further information regarding the level of risk from this watercourse would be required to know whether or not the Exception Test is required and if it could be passed.

Planning application stage:

• Hydrological and hydraulic assessment of the Heal-eye Stream that flows along the western boundary of the site should be undertaken to verify flood extent.

The results of the modelling will inform development zoning in the site, allowing location of residential development in areas outside of flood risk. If residential development is unable to be located outside of flood risk areas (1 in 100-year flood) the Exception Test would be required.
At the planning application stage, a site-specific flood risk assessment will be required for any development greater than 1ha or if it is located within Flood Zones 2 or 3.







There is potential fluvial flood risk from the overtopping of the Heal-eye Stream.
Surface water presents a risk to the site. Further development and creation of impermeable surfaces may result in an increase of surface water flood risk.

| SuDS & the d | evelopment site | |
|-------------------|-----------------|--|
| SuDS Type | Suitability | Comments |
| Source Control | | Most source control techniques are likely to be suitable. Permeable paving should use non-infiltrating systems due to high risk of groundwater flooding. |
| Infiltration | | Mapping suggests low permeability in this area possibly making the infiltration techniques unsuitable. Further site investigation should be carried out to assess potential for drainage by infiltration. If infiltration is suitable it should be avoided in areas where the depth to the water table is <1m. |
| Detention | | Mapping suggests that the site will be too steep to allow 'above ground' detention features to be used at this development |
| 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. A liner maybe required to prevent the egress of groundwater. |

• Residential developments should provide at least two independent SuDS features in series to provide a suitable level of water quality treatment.

• The site is not located in an area designated as a landfill site.

• The site is not located within a groundwater source protection zone.

Flood Defences:

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Access & Egress:

Existing information suggests there are no significant access or egress issues for the site.

Climate Change:

Increased storm intensities.

Increased water levels in the Heal-eye Stream.



• Flood zones have not been produced for the Heal-eye Stream running to the west of the site. The flood risk from this waterbody should be considered during the planning application stage.

• Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.

• The peak flows on the Heal-eye Stream should be considered when considering drainage.

• Assessment for runoff should include allowance for climate change effects.

• 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.

• New development must seek opportunities to reduce overall level of flood risk at the site, for example by:

- o Relocating development zones with lower flood risk
- o Creating space for flooding.

| Glebe, Silverton | | | | | |
|----------------------|---------------|-------------|-------------|------------|--------|
| OSNGR: | 295716,102648 | Area: | 1.07ha | Gree | nfield |
| Flood Zone Coverage: | | FZ3b | FZ3a | FZ2 | FZ1 |

Exception Test Required?

The proposed land use for this site is residential which has a flood risk vulnerability class of 'More Vulnerable'.

Existing information shows this site to be 100% in Flood Zone 1. However, there is an unnamed watercourse flowing to the south of the site, for which flood zone information is not available. Further information regarding the level of risk from this watercourse would be required to know whether or not the Exception Test is required and if it could be passed.

Planning application stage:

• Hydrological and hydraulic assessment of the unnamed watercourse that flows along the southern boundary of the site should be undertaken to verify flood extent.

The results of the modelling will inform development zoning in the site, allowing location of residential development in areas outside of flood risk. If residential development is unable to be located outside of flood risk areas (1 in 100-year flood) the Exception Test would be required.
At the planning application stage, a site-specific flood risk assessment will be required for any development greater than 1ha or if it is located within Flood Zones 2 or 3.







There is potential fluvial flood risk from the overtopping of the unnamed watercourse.
Surface water presents a risk to the site. Further Development and creation of impermeable surfaces may result in an increase of surface water flood risk.

| SuDS & the development site: | | | | |
|------------------------------|-------------|---|--|--|
| 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 will be too steep to allow 'above ground' detention features to be used at this development | | |
| 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. | | |

• Residential developments should provide at least two independent SuDS features in series to provide a suitable level of water quality treatment.

• The site is not located in an area designated as a landfill site.

• The site is not located within a groundwater source protection zone.

Flood Defences:

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Access & Egress:

The main access road next to the eastern boundary of the proposed development site is affected by surface water flood risk. The main access road next to the western boundary of the proposed development site is not significantly affected by surface water flood risk.

Climate Change:

Increased storm intensities.

• Increased water levels in the unnamed watercourse.



• Flood zones have not been produced for the unnamed watercourses running along the southern boundary of the site. The flood risk from this waterbody should be considered during the planning application stage.

• Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.

• The peak flows on the unnamed watercourse should be considered when considering drainage.

• Assessment for runoff should include allowance for climate change effects.

• 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.

• 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 zones with lower flood risk

o Creating space for flooding.

| Land at Old Butterleigh Road, Silverton | | | | | |
|---|---------------|-----------------------------------|--------------------|------------------|-------------------|
| OSNGR: | 295746,103452 | Area (amended): 0.37ha Greenfield | | | |
| Flood Zone Coverage: | | FZ3b TBC | FZ3a 10% | FZ2 0% | FZ1 90% |

Exception Test Required?

Potentially yes, depending on location of development. The proposed land use for this site is residential which has a flood risk vulnerability class of 'More Vulnerable'. Under the NPPF, More Vulnerable development in Flood Zone 3a requires the application of the Exception Test.

Should residential development be located so that it is outside of Flood Zone 3 then the Exception test would not be required. The site boundary has been amended from what was originally proposed; as a result of this change in site boundary 10% of the site is now in Flood Zone 3 compared to 2% with the original site boundary.

Potential to pass the Exception Test (if required):

Should development be located in Flood Zone 3 it will need to pass the Exception Test. 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.

• A large proportion of the site is within Flood Zone 1. Risks to development could be reduced by using sequential design to locate development in the west of the site, outside of Flood Zone 3.

• The development could potentially be made safe through building design, and by meeting drainage requirements. In view of the possible flooding from the unnamed watercourse, detailed hydraulic modelling should be undertaken to determine the 1 in 100-year flood level (with and without climate change) as well as any other return periods requested by the Environment Agency. The results of this modelling will inform development design and confirm whether housing proposals can pass the Exception Test.

• To avoid increasing flood risk elsewhere, surface water management techniques should be adopted (see 'SUDS & the development site' below).





Elevial flood rick is from the eventenning of the unner

• Fluvial flood risk is from the overtopping of the unnamed watercourse.

 Further development and creation of impermeable surfaces may result in an increase of surface water flood risk.

| SuDS & the d | SuDS & the development site: | | | | |
|---|------------------------------|---|--|--|--|
| 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 will be too steep to allow 'above ground' detention features to be used at this development | | | |
| 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. | | | |
| Residential developments should provide at least two independent SuDS features in series to | | | | | |

provide a suitable level of water quality treatment.

• The site is not located in an area designated as a landfill site.

• The site is not located within a groundwater source protection zone.

Flood Defences:

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Access & Egress:

The main access road to the site is not affected by surface water or fluvial flood risk.

Climate Change:

Increased storm intensities.

Increased water levels in the unnamed watercourse.

Flood Risk Implications for Development:

• At the planning application stage, a site-specific flood risk assessment will be required if any development is located within Flood Zones 2 or 3, or for any development greater than 1ha in Flood Zone 1.

• Resilience measures will be required if buildings are situated in the flood risk area.

• Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.

• The peak flows on the unnamed watercourse should be considered when considering drainage.

• Assessment for runoff should include allowance for climate change effects.

• 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 unnamed watercourse to ensure flows are not exacerbated downstream within the catchment.

• 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 zones with lower flood risk

| Livinghayes Road, Silverton | | | | | |
|-----------------------------|---------------|-------------------|---------------------|------------------|--------------------|
| OSNGR: | 296163,103134 | Area (amen | ded): 0.53ha | Gree | nfield |
| Flood Zone Coverage: | | FZ3b 0% | FZ3a 0% | FZ2 0% | FZ1 100% |

Exception Test Required?

The proposed land use for this site is residential which has a flood risk vulnerability class of 'More Vulnerable'.

Existing information suggests this site is 100% in Flood Zone 1. However, the Heal-eye Stream flows to the east of the site, for which flood zone information is not available. Further

information regarding the level of risk from this watercourse would be required to know whether or not the Exception Test is required and if it could be passed.

The site boundary has been amended from what was originally proposed; this has had no impact on the level of flood risk to the site.

Planning application stage:

• Hydrological and hydraulic assessment of the Heal-eye Stream that flows along the western boundary of the site should be undertaken to verify flood extent.

The results of the modelling will inform development zoning in the site, allowing location of residential development in areas outside of flood risk. If residential development is unable to be located outside of flood risk areas (1 in 100-year flood) the Exception Test would be required.
At the planning application stage, a site-specific flood risk assessment will be required for any development located within Flood Zones 2 or 3.







There is potential fluvial flood risk from the overtopping of the Heal-eye Stream.
Surface water presents a risk to the site. Further development and creation of impermeable surfaces may result in an increase of surface water flood risk.

| SuDS & the development site: | | | | |
|------------------------------|---------------------|---|--|--|
| 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 will be too steep to allow 'above ground' detention features to be used at this development | | |
| 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. | | |
| Desidential d | ممام مقمر ممرم مامر | uld when the at least two independent 0. D0 fast was in series to | | |

 Residential developments should provide at least two independent SuDS features in series to provide a suitable level of water quality treatment.

• The site is not located in an area designated as a landfill site.

The site is not located within a groundwater source protection zone.

Flood Defences:

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Access & Egress:

The main access road to the site is not significantly affected by surface water flood risk. The main access road could potentially be affected by fluvial flood risk.

Climate Change:

Increased storm intensities.

Increased water levels in the Heal-eye Stream.



• Flood zones have not been produced for the Heal-eye Stream running to the west of the site. The flood risk from this waterbody should be considered during the planning application stage.

• Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.

• The peak flows on the Heal-eye Stream should be considered when considering drainage.

• Assessment for runoff should include allowance for climate change effects.

• 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.

• New development must seek opportunities to reduce overall level of flood risk at the site, for example by:

- o Relocating development zones with lower flood risk
- o Creating space for flooding.





Surface Water: Proposed Development Area Mid Devon DC Boundary uFMTSW 30-year Extent uFMTSW 100-year Extent UFMTSW 1,000-year Extent Contains Ordnance Survey data © Crown copyright and database right 2014 Note: This map gives an indication of the broad areas likely to be at risk of surface water flooding. It is not suitable for use at an individual property scale due to the method used.

Sources of Flood Risk:

• Surface water presents a risk to the site. Further development and creation of impermeable surfaces may result in an increase of surface water flood risk.

| SuDS & the development site: | | | | |
|---|----------------|--|--|--|
| 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. | | |
| 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. | | |
| Residential deve | elopments sho | uld provide at least two independent SuDS features in series to | | |
| provide a suitable | level of water | quality treatment. | | |
| The site is not lo | cated in an ar | ea designated as a landfill site. | | |
| The site is not lo | cated within a | groundwater source protection zone. | | |
| Flood Defences: | | | | |
| There are no floo | d defences at | this site. | | |
| Flood Warning: | | | | |
| Access & Egress | iy no nood war | ning areas covering this site. | | |
| Access & Egress: Existing information suggests the main access route for the site is at risk from surface water flooding. | | | | |
| Climate Change: | | | | |
| Increased storm intensities. | | | | |
| Flood Risk Implications for Development: | | | | |
| 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. | | | | |

example by:





• Further development and creation of impermeable surfaces may result in an increase of surface water flood risk.

| SuDS & the development site: | | |
|--|-------------|--|
| SuDS Type | Suitability | Comments |
| Source Control | | Most source control techniques are likely to be suitable. Permeable paving should use non-infiltrating systems due to high risk of groundwater flooding. |
| Infiltration | | Mapping suggests low permeability in this area possibly making the infiltration techniques unsuitable. Further site investigation should be carried out to assess potential for drainage by infiltration. If infiltration is suitable it should be avoided in areas where the depth to the water table is <1m. |
| Detention | | This option may be feasible provided site slopes are < 5%. A liner maybe required to prevent the egress of groundwater. |
| Filtration | | This feature is probably suitable provided site slopes are <5% and the depth to the water table is >1m. A liner may be required to prevent the egress of groundwater. |
| 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. A liner maybe required to prevent the egress of groundwater. |
| Residential developments should provide at least two independent SuDS features in series to | | |
| provide a suitable level of water quality treatment. | | |
| The site is not located in an area designated as a landfill site. | | |
| The site is partially located within a groundwater source protection zone. | | |
| Flood Defences: | | |
| There are no flood defences at this site. | | |
| Flood Warning: | | |
| There are currently no flood warning areas covering this site. | | |

Access & Egress:

The main access road to the site is not affected by surface water or fluvial flood risk.

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.
Development should adopt exemplar source control SuDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.

• New development must seek opportunities to reduce overall level of flood risk at the site, for example by:





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|--|-------------|--|
| SuDS Type | Suitability | Comments |
| Source Control | | Most source control techniques are likely to be suitable. Permeable paving should use non-infiltrating systems due to high risk of groundwater flooding. |
| Infiltration | | Mapping suggests low permeability in this area possibly making the infiltration techniques unsuitable. Further site investigation should be carried out to assess potential for drainage by infiltration. If infiltration is suitable it should be avoided in areas where the depth to the water table is <1m. |
| Detention | | Mapping suggests that the site will be too steep to allow 'above ground' detention features to be used at this development. |
| Filtration | | This feature is probably suitable provided site slopes are <5% and the depth to the water table is >1m. A liner maybe required to prevent the egress of groundwater. |
| 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. A liner maybe required to prevent the egress of groundwater. |
| • Residential developments should provide at least two independent SuDS features in series to provide a suitable level of water quality treatment. | | |

• The site is not located in an area designated as a landfill site.

• The site is not located within a groundwater source protection zone.

Flood Defences:

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Access & Egress:

Existing information suggests there are no access or egress issues for the 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.
Development should adopt exemplar source control SuDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.

• New development must seek opportunities to reduce overall level of flood risk at the site, for example by:







• Further development and creation of impermeable surfaces may result in an increase of surface water flood risk.

| SuDS & the development site: | | |
|---|-------------|--|
| 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. |
| 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. |
| • Residential developments should provide at least two independent SuDS features in series to | | |

provide a suitable level of water quality treatment.

• The site is not located in an area designated as a landfill site.

• The site is not located within a groundwater source protection zone.

Flood Defences:

There are no flood defences at this site.

Flood Warning:

There are currently no flood warning areas covering this site.

Access & Egress:

Existing information suggests there are no access or egress issues for the site.

Climate Change:

Increased storm intensities.

Flood Risk Implications for Development:

• 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.

• New development must seek opportunities to reduce overall level of flood risk at the site, for example by:







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.
Development should adopt exemplar source control SuDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.

• New development must seek opportunities to reduce overall level of flood risk at the site, for example by:







• Further development and creation of impermeable surfaces may result in an increase of surface water flood risk.

| SuDS & the d | evelopment site | |
|--|---------------------|--|
| SuDS Type | Suitability | Comments |
| Source | | Most source control techniques are likely to be suitable. |
| Control | | Permeable paving should use non-infiltrating systems due to |
| Control | | high risk of groundwater flooding. |
| Infiltration | | Mapping suggests low permeability in this area possibly making the infiltration techniques unsuitable. Further site investigation should be carried out to assess potential for drainage by infiltration. If infiltration is suitable it should be avoided in areas where the depth to the water table is <1m. |
| Detention | | Mapping suggests that the site will be too steep to allow 'above ground' detention features to be used at this development |
| Filtration | | This feature is probably suitable provided site slopes are <5% and the depth to the water table is >1m. A liner maybe required to prevent the egress of groundwater. |
| 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. A liner maybe required to prevent the egress of groundwater. |
| Residential c | levelopments sho | uld provide at least two independent SuDS features in series to |
| provide a suitable level of water quality treatment. | | |
| The site is no | ot located in an ar | ea designated as a landfill site. |
| The site is not located within a groundwater source protection zone. | | |
| Flood Defences: | | |
| There are no flood defences at this site. | | |
| Flood Warning: | | |
| I here are currently no flood warning areas covering this site. | | |
| Access & Egress: | | |
| Existing information suggests there are no access or egress issues for the site. | | |
| Climate Chan | ige: | |
| 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.
Development should adopt exemplar source control SuDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.

• New development must seek opportunities to reduce overall level of flood risk at the site, for example by:

| Land west of Uffculme | | | | | |
|-----------------------|---------------|-------------------|-------------------|------------------|-------------------|
| OSNGR: | 305665,112059 | Area: 2 | 2.24ha | Gree | nfield |
| Flood Zone Coverage: | | FZ3b 0% | FZ3a 0% | FZ2 1% | FZ1 99% |

Exception Test Required?

No. The proposed land use for this site is residential which has a flood risk vulnerability class of 'More Vulnerable'. Under the NPPF, More Vulnerable development in Flood Zone 2 does not require the application of the Exception Test.

Only a small proportion of the site is in Flood Zone 2, at the southern boundary, from the River Culm The site boundary has been amended from what was originally proposed; as a result of this change in site boundary no part of the site is in Flood Zone 3 compared to 21% with the original site boundary.

Planning application stage:

• A site specific flood risk assessment is required for development proposals on sites comprising one hectare or above in Flood Zone 1, or if development is in Flood Zone 2, in which the vulnerability to flooding from other sources should be considered.

• 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 should be considered.







• Fluvial flood risk is from the overtopping of the River Culm.

• Surface water presents a risk to the site. Further development and creation of impermeable surfaces may result in an increase of surface water flood risk.

| SuDS & the development site: | | |
|------------------------------|-------------|--|
| SuDS Type | Suitability | Comments |
| Source Control | | Most source control techniques are likely to be suitable. Permeable paving should use non-infiltrating systems due to high risk of groundwater flooding. |
| 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%. A liner maybe required to prevent the egress of groundwater. |
| Filtration | | This feature is probably suitable provided site slopes are <5% and the depth to the water table is >1m. A liner maybe required to prevent the egress of groundwater. |
| 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. A liner maybe required to prevent the egress of groundwater. |

• Residential developments should provide at least two independent SuDS features in series to provide a suitable level of water quality treatment.

• The site is not located in an area designated as a landfill site.

• The site is not located within a groundwater source protection zone.

Flood Defences:

There are no flood defences at this site.

Flood Warning:

The site is partially covered by the River Clyst and Culm and their tributaries Flood Alert Area and is partially covered by the River Culm (Upper) from Heymock to Cullompton Flood Warning Area.

Access & Egress:

The main access road to the site is not significantly affected by surface water flood risk.

Climate Change:

Increased storm intensities.

• Increased water levels in the River Culm.



• At the planning application stage, a site-specific flood risk assessment will be required.

• Resilience measures will be required if buildings are situated in the flood risk area.

• Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development.

• The peak flows on the River Culm should be considered when considering drainage.

• 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.

• Safe access and egress would need to be demonstrated.

• 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 zones with lower flood risk

o Creating space for flooding.