

## Form HR01: Proforma for new applications within Stage 2 criteria.



ENVIRONMENT  
AGENCY

### ENVIRONMENT AGENCY RECORD OF ASSESSMENT OF LIKELY SIGNIFICANT EFFECT ON A EUROPEAN SITE (STAGE 2)

#### PART A

*To be completed by relevant technical/project officer in consultation with Conservation/Ecology section and Natural England/CCW*

|   |   |
|---|---|
| <b>1. Type of permission/activity:</b>  | East Cornwall Catchment Flood Management Plan (CFMP)  |
| <b>2. Agency reference no:</b>  | IMSW001029 11   |
| <b>3. National Grid reference:</b>  | SX071671  |
| <b>4. Site reference:</b>   | Catchment Flood Management Plan covering East Cornwall.   |
| <b>5. Brief description of proposal:</b>  | To develop sustainable flood risk policies for the East Cornwall Area for the next 100 years.   |
| <b>6. European site name(s) and status:</b>   | Breney Common and Goss & Tregoss Moors SAC<br>Crowdy Marsh SAC<br>Culm Grasslands SAC<br>Newlyn Downs SAC<br>Phoenix United Mine & Crows Nest SAC<br>Polruan to Polperro SAC<br>River Camel SAC<br>Tintagel-Marsland-Clovelly Coast SAC |
| <b>7. List of interest features:</b>  |   |
| Breney Common and Goss and Tregoss Moors SAC  | Northern Atlantic wet heaths<br>European dry heaths<br>Transition mires and quaking bogs<br>Marsh fritillary  |
| Crowdy Marsh SAC  | Transition mires and quaking bogs   |
| Culm Grasslands SAC   | Marsh Fritillary butterfly<br>Purple moor grass meadows<br>Wet heath  |
| Newlyn Downs SAC  | Temperate Atlantic wet heaths<br>European dry heaths  |
| Phoenix United Mine and Crow's Nest SAC   | Calaminarian grasslands   |
| Polruan to Polperro SAC   | Vegetated sea cliff of the Atlantic and Baltic coasts<br>European dry heaths<br>Shore dock  |
| River Camel SAC   | European dry heaths<br>Old sessile oak woods<br>Alluvial forests<br>Bullhead<br>Otter<br>Atlantic salmon  |
| Tintagel-Marsland-Clovelly Coast SAC  | Vegetated sea cliff of the Atlantic and Baltic coasts<br>Old sessile oak woods<br>European dry heaths   |
| <b>8. Is the proposal directly connected with or necessary to the management of the site for nature conservation?</b> | No  |

**9. What potential hazards are likely to affect the interest features? Are the interest features potentially exposed to the hazard?**

| Sensitive Interest Feature:  | Potential hazard:                      | Potential exposure to hazard and mechanism of effect/impact if known:   |
|--|--|---|
| <p><b>Breney Common and Goss and Tregoss Moors SAC</b> This site lies within Gannel and Mawgan Vale Policy Unit where a P3 has been selected. It also lies with Camel Valley where a P4 has been selected.</p> |  |   |
| Northern Atlantic wet heaths   | Hydrological regime<br>Land use change | The SAC lies upstream of any locations listed in the action plan for works under P4 in Camel Valley or P3 in Gannel and Mawgan Vale. Changes to land drainage are not expected to have any effect on the SAC due to the hydrological and topographical position of the SAC. <b>No Likely Significant Effect</b> |
| European dry heaths  | Hydrological regime<br>Land use change | The SAC lies upstream of any locations listed in the action plan for works under P4 in Camel Valley or P3 in Gannel and Mawgan Vale. Changes to land drainage are not expected to have any effect on the SAC due to the hydrological and topographical position of the SAC. <b>No Likely Significant Effect</b> |
| Transition mires and quaking bogs  | Hydrological regime<br>Land use change | The SAC lies upstream of any locations listed in the action plan for works under P4 in Camel Valley or P3 in Gannel and Mawgan Vale. Changes to land drainage are not expected to have any effect on the SAC due to the hydrological and topographical position of the SAC. <b>No Likely Significant Effect</b> |
| Marsh fritillary   | Hydrological regime<br>Land use change | The SAC lies upstream of any locations listed in the action plan for works under P4 in Camel Valley or P3 in Gannel and Mawgan Vale. Changes to land drainage are not expected to have any effect on the SAC due to the hydrological and topographical position of the SAC. <b>No Likely Significant Effect</b> |

|   |  |   |
|---|--|---|
| <b>Crowdy Marsh SAC</b> This site lies within Camel Valley where a P4 has been selected.                            |  |   |
| Transition mires and quaking bogs   | Hydrological regime<br>Land use change | The SAC lies upstream of any locations listed in the action plan for works under this policy choice. Changes to land drainage are not expected to have any effect on the SAC due to the hydrological and topographical position of the SAC. <b>No Likely Significant Effect</b> |
| <b>Culm Grasslands SAC</b> This site lies with Welcomb and Coombe Valleys Policy unit where a P1 has been selected. |  |   |
| Marsh Fritillary butterfly  | Hydrological regime                    | Policy Option 1 has been selected for this policy unit. There is currently no flood intervention in this policy unit, therefore implementing P1 will result in no impacts to the SAC. <b>No Likely Significant Effect</b>   |
| Purple moor grass meadows   | Hydrological regime                    | Policy Option 1 has been selected for this policy unit. There is currently no flood intervention in this policy unit <b>No Likely Significant Effect</b>  |
| Wet heath   | Hydrological regime                    | Policy Option 1 has been selected for this policy unit. There is currently no flood intervention in this policy unit <b>No Likely Significant Effect</b>  |
| <b>Newlyn Downs SAC</b> This site lies within Gannel and Mawgan Vale Policy Unit where a P3 has been selected.      |  |   |
| Temperate Atlantic wet heaths   | Hydrological regime<br>Land use change | The SAC lies upstream of any locations listed in the action plan for works under this policy choice. Changes to land drainage are not expected to have any effect on the SAC due to the hydrological and topographical position of the SAC. <b>No Likely Significant Effect</b> |
| European dry heaths   | Hydrological regime<br>Land use change | The SAC lies upstream of any locations listed in the action plan for works under this policy choice. Changes to land drainage are not expected to have any effect on the SAC due to the hydrological and topographical position of the SAC. <b>No Likely Significant Effect</b> |

|  |  |   |
|--|--|---|
| <b>Phoenix United Mine and Crow's Nest SAC</b> This site lies within Fowey and Seaton PU where a P4 has been selected  |  |   |
| Calaminarian grasslands  | Land use change  | Potential changes to land management will be implemented through the ESS. The primary objectives of the scheme are to conserve wildlife and protect natural resources, therefore implementation of this scheme is not predicted to impact upon this feature of the SAC. <b>No Likely Significant Effect</b> |
| <b>Polruan to Polperro SAC</b> This site falls within South Coast Tidal PU, where a P5 has been selected.  |  |   |
| Vegetated sea cliff of the Atlantic and Baltic coasts  | Hydrological regime  | This vegetation type lies on slopes and is not influenced by flooding. <b>No Likely Significant Effect</b>  |
| European dry heaths  | Hydrological regime  | This vegetation type lies on slopes and is not influenced by flooding. <b>No Likely Significant Effect</b>  |
| Shore dock   | Land use change<br>Watercourse management<br>Reduced freshwater flow | Actions to maintain the condition of coastal defences at Polperro are not likely to impact upon this species as they lie within the harbour and do not influence the freshwater flow to the SAC. <b>No Likely Significant Effect</b>  |
| <b>River Camel SAC</b> This site falls within Bodmin Moor, Camel Valley and Camel Tidal Policy Units. The preferred policies are Bodmin Moor P6, Camel Valley P3 and Camel Tidal P5. |  |   |
| European dry heaths  | Hydrological regime  | This vegetation type lies on slopes and is not influenced by flooding. <b>No Likely Significant Effect</b>  |
| Old sessile oak woods  | Hydrological regime  | Too dry: reducing flood risk (P5) in Camel Tidal PU or Flood storage in Bodmin Moor PU (P6) could result in changes to drainage of this interest feature. <b>Likely Significant Effect</b>  |
| Alluvial forests   | Reduced freshwater flow  | Too dry: reducing flood risk (P5) in Camel Tidal PU or Flood storage in Bodmin Moor PU (P6) could result in changes to drainage of this interest feature. <b>Likely Significant Effect</b>  |

|  |   |  |
|--|---|--|
| Bullhead   | Sediment transfer<br>Watercourse modification<br>Reduced freshwater flow.   | Actions to reduce flood risk in Camel Tidal PU (P5) may result in habitat change and sediment transfer.<br>Flood storage in Bodmin Moor PU (P6) may reduce water levels within the River Camel and therefore suitable habitat for Bullhead <b>Likely Significant Effect.</b> |
| Otter  | Watercourse modification  | Actions to reduce flood risk in Camel Tidal PU (P5) may impact upon otter habitat and foraging habitats. <b>Likely Significant Effect</b>  |
| Atlantic salmon  | Smothering or removal of gravels<br>Reduced freshwater flow<br>Reduced freshwater flow.<br>Sediment transfer<br>Watercourse modification  | Actions to reduce flood risk in Camel Tidal PU (P5) may result in habitat change and sediment transfer.<br>Flood storage in Bodmin Moor PU (P6) may alter water levels within the River Camel which may affect migration. <b>Likely Significant Effect</b>                   |
| <b>Tintagel-Marsland-Clovelly Coast SAC</b> This site lies within Welcombe and Coombe Valleys, North Coast Rivers and Bude and Stratton Policy Units. The preferred policies are Welcombe and Coombe Valley P1, North Coast Rivers P4 and Bude and Stratton P5 |   |  |
| Vegetated sea cliff of the Atlantic and Baltic coasts  | No impact   | This interest feature is influenced by maritime proximity and rainfall. The CFMP will not influence these factors. <b>No Likely Significant Effect</b>   |
| Old sessile oak woods  | Hydrological regime   | Too dry: reducing flood risk (P5) in Bude and Stratton PU could result in changes to drainage of this interest feature. <b>Likely Significant Effect</b>   |
| European dry heaths  | Hydrological regime   | This vegetation type lies on slopes outside of the floodplain.   |
| 10. Is the potential scale or magnitude of any effect likely to be significant?  |   |  |
| <b>a) Alone?</b>   | Yes:<br>Actions to reduce flood risk in Camel Tidal PU and South Coast Tidal PU may disturb salmon, bullhead and otter and result in habitat change and sediment transfer.<br>Actions to increase the frequency of flooding in Bodmin Moor Policy Unit may have impacts on salmon, bullhead and otter and result in habitat change and sediment transfer in this Policy Unit and downstream in Camel Valley and Camel Tidal Policy Units. |  |
| <b>b) In combination</b> with other Environment Agency policies, plans or programmes?  | No<br>The West Cornwall CFMP, North Devon CFMP and Tamar CFMP have been reviewed for cumulative impacts and none have been identified.  |  |

|  |  |
|--|--|
| <p>c) In combination with permissions and/or plans/projects of other Competent Authorities?</p>  | <p>Relevant policies and plans have been reviewed including:</p> <ul style="list-style-type: none"> <li>• Land's End to Hartland Point SMP</li> <li>• Rame Head to Lizard Point Shoreline Management Plan (SMP)</li> <li>• River Camel Salmon Action Plan</li> </ul> <p>As a result of its risk assessment, the Agency can conclude that:</p> <p>i) This application could act in combination with permissions and/or plans/projects of other competent authorities, consultation is being undertaken and an appropriate assessment will be made in Stage 3.</p> |
| <p><b>11. Conclusion:</b><br/>Is the proposal likely to have a significant effect 'alone and/or in combination' on a European site?</p>  | <p>Yes</p> <p>The plan could result in a range of unspecified land use changes and flood risk management actions in or adjacent to rivers, as well as alterations to existing maintenance regimes of rivers. The plan could also result in increased amounts of freshwater, potentially affecting the composition of the old sessile oak woodlands, in the River Camel SAC and Tintagel-Marsland-Clovelly Coast SAC in particular. However, at this stage we have not considered scale or magnitude of these potential changes/impacts.</p>                      |
| <p><b>12. Justification for Reduced Consultation review process :</b></p>  | <p>The CFMP has the potential to impact upon: River Camel SAC and Tintagel-Marsland-Clovelly Coast SAC.</p> <p>. Given the scale of the project and the uncertainties of the implementation, this is considered to be complex and therefore we are issuing this to Natural England for comment as the statutory consultee for the project.</p>   |
| <p><b>13. Name of EA Officer:</b></p>  | <p>Date:</p>   |
| <p><b>14. &lt;Natural England/CCW comment on assessment:</b></p> <p>(If the Natural England/CCW officer disagrees with the conclusion of 10c, please include details of the other Competent Authorities which should be consulted)&gt;</p> | <p>For use when the Appendix 11 is to be sent to Natural England /CCW for consultation.</p>  |
| <p><b>15. &lt;Name of Natural England/CCW Officer:&gt;</b></p>   | <p>Date:</p>   |
| <p>IF THE PROPOSAL IS LIKELY TO HAVE A SIGNIFICANT EFFECT AN APPROPRIATE ASSESSMENT WILL BE REQUIRED (see part B for suggested scope).</p>   |  |

**Part B - SUGGESTED SCOPE OF THE APPROPRIATE ASSESSMENT:**

*The features that have been scoped in to the HRO2/stage 3 assessment are detailed below:*

**River Camel SAC**

Old sessile oak woods  
Alluvial forests  
Bullhead  
Otter  
Atlantic salmon

**Tintagel-Marsland-Clovelly Coast SAC**

Old sessile oak woods

- Characterise the site in relation to the qualifying features and their conservation objectives;
  - Existing information
  - Management/ unauthorised impacts
- Detailed description of plan
- Assess each likely impact on the interest features;
  - Compare with historical data
  - predict impacts
  - compare with impact from management/unauthorised activities
- Determine the extent to which each possible impact can be avoided.

15. Natural England Comment on scope of appropriate assessment:

Mainly for use when the Appendix 11 is sent to Natural England /CCW for consultation. Natural England/CCW may still choose to send comments on the scope of the forthcoming appropriate assessment (if one is required) even if the Appendix 11 was sent for information only. See [Appendix 11 Work Instruction 276\\_05](#).

16. Name of Natural England Officer:

Date: