



## Shadow Habitats Regulations Assessment (HRA) under the Conservation of Habitats and Species Regulations, 2017 (as amended)

### PP12767845 Rowley Green Meadow Pond creation project, Stoke Park Farm

#### Section 1. Summary

1.1 This shadow HRA is prepared by the Newt Conservation Partnership and submitted to Eastleigh Borough Council (EBC) in support of a planning application for creation of seven new ponds and associated native hedge and tree planting at Stoke Park Farm, Eastleigh.

1.2 The application site is within the Impact Risk Zone (IRZ) for The River Itchen Site of Special Scientific Interest (SSSI) and The River Itchen Special Area of Conservation (SAC) (UK0012599). Both sites (which overlap) are approximately 740m to the east at the closest point to the application site. The IRZ applies to all planning applications (excluding householder applications), so the proposal meets the criteria for screening for likely significant effects.

**Table 1: Summary of the shadow HRA**

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Site location</b>             | Rowley Green Meadow, Stoke Park Farm, Stoke Common Road, Bishopstoke, Eastleigh SO50 6DW.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Existing site description</b> | <p>The application site is a 1.6 hectare area within Rowley Green Meadow. Rowley Green Meadow is an approximately 8 hectare field in the north-eastern corner of Stoke Park Farm. Stoke Park Farm is a former dairy farm now owned and managed by Eastleigh Borough Council.</p> <ul style="list-style-type: none"> <li>• Modified grassland heavily dominated by Rye grass <i>Lolium perenne</i>.</li> <li>• Bow Lake (a main river which is a tributary of the River Itchen) runs along the southern boundary of Rowley Green Meadow.</li> <li>• Grown out hedgerows / tree lines to northern and eastern boundaries.</li> <li>• No statutory designations but is within the SSSI / SAC Impact Risk Zone for The River Itchen SSSI and SAC (750m away).</li> <li>• No local or non-statutory designations.</li> <li>• No Habitat of Principle importance.</li> <li>• There is a bridleway to the western boundary of Rowley Green Meadow but there is no public access to the field.</li> </ul> |
| <b>Surrounding land use</b>      | <p>Stoke Park Farm is owned and managed by EBC. It comprises mainly modified grassland with patches of deciduous woodland, hedgerows, a stream and former farm buildings. EBC intend to create a SANG on part of Stoke Park Farm and develop nature conservation and educational use of the rest of the site in line with a public consultation and subject to planning permissions. Hampshire Carp Hatcheries operate a site in the west of Stoke Park Farm as tenants.</p> <p>To the north and east of the site there is farmland (modified grassland) with hedges.</p>                                                                                                                                                                                                                                                                                                                                                                                                                         |



|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description of proposed works</b>         | To create up to 7 wildlife ponds (total maximum surface area approximately 3,210 metres <sup>2</sup> ) with associated native tree and hedge planting to support Eastleigh Borough Council's great crested newt (GCN) Organisational Licence (WML-OR112). The purpose is to increase habitat for GCN on the site and contribute to the scheme's landscape-scale conservation strategy. Spoil will be used within Rowley Green Meadow. The works are detailed in Figure 1. |
| <b>Proximity to designated site</b>          | The pond creation work will take place approximately 750 m from <b>The River Itchen Special Area of Conservation (UK0012599)</b> at the nearest point. This is shown on Figure 2. The pond creation work is approximately 25m away at the nearest point from Bow Lake, a main river which is a tributary of the River Itchen.                                                                                                                                             |
| <b>Likely significant effects identified</b> | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Appropriate assessment required</b>       | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Assessment date</b>                       | 23/1/2024                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Assessment undertaken by</b>              | Anna-Marie Dennis (Hampshire Project Officer, Newt Conservation Partnership) and reviewed by Dr Pascale Nicolet (CEO Newt Conservation Partnership and Technical Director of the Freshwater Habitats Trust)                                                                                                                                                                                                                                                               |

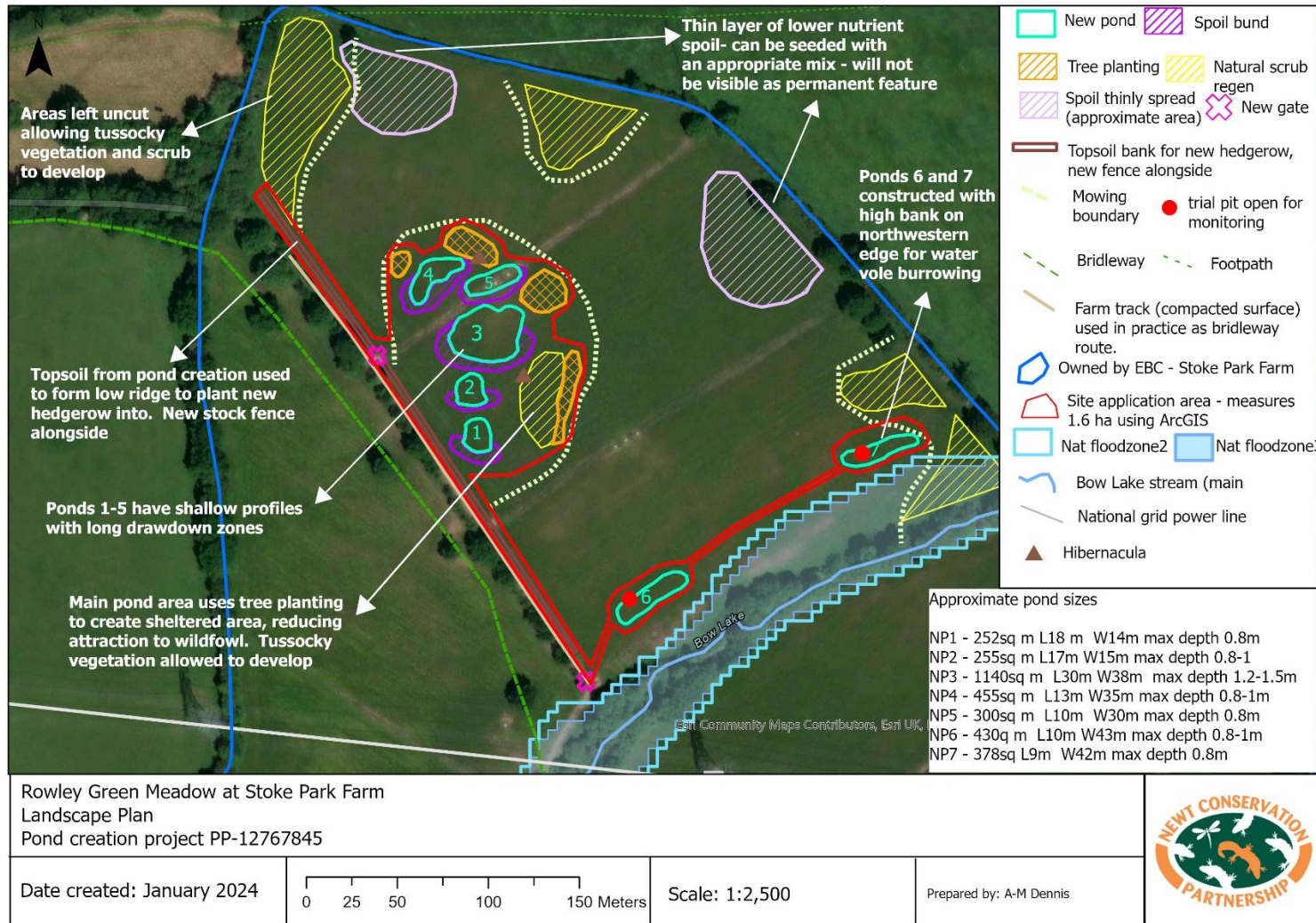
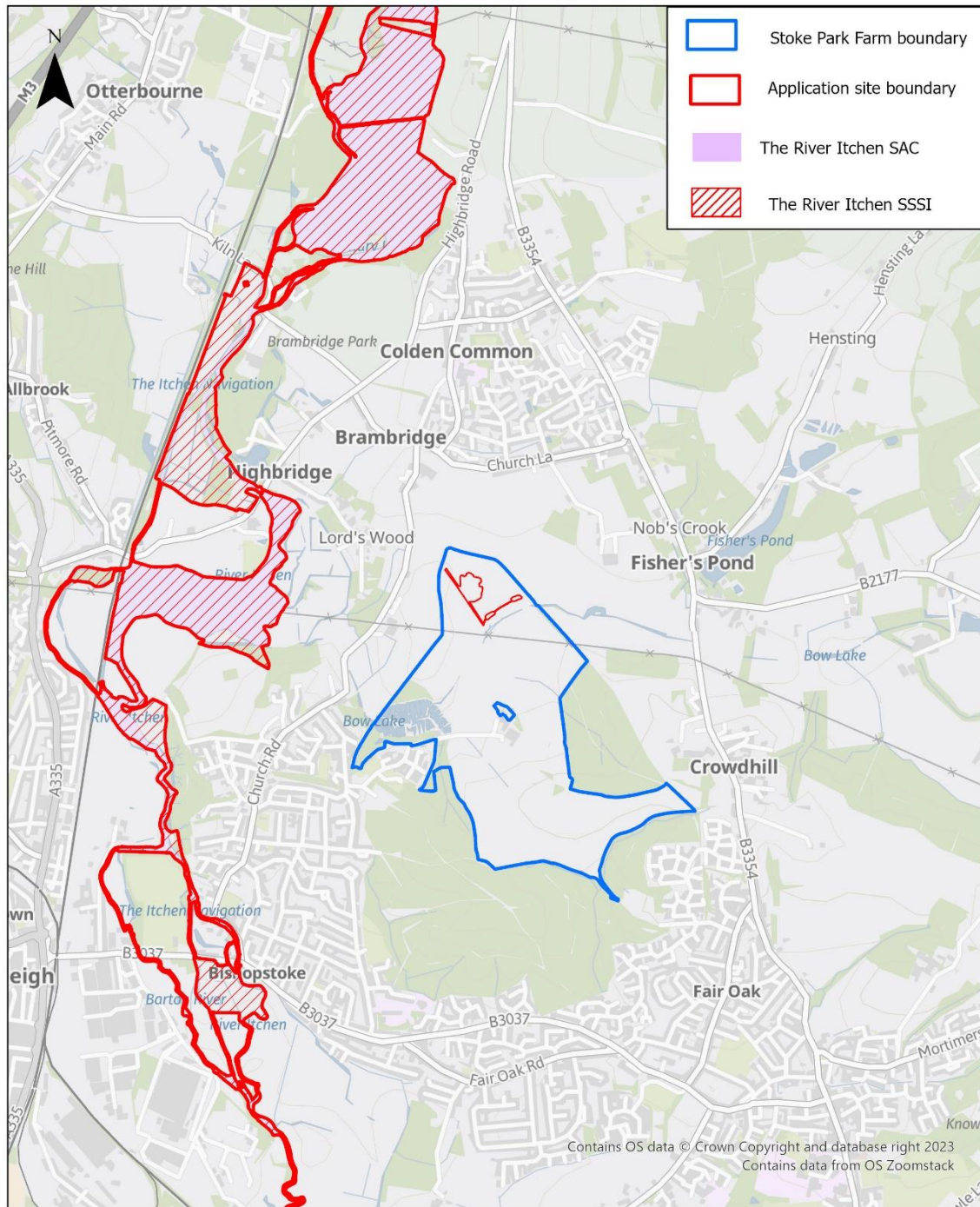


Figure 1: Plan of habitat creation work at Rowley Green Meadow, Stoke Park Farm.



|                                                                                     |                                   |                                                                                       |
|-------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------|
| Application site in relation to designated conservation sites                       |                                   |  |
| Date created: November 2023                                                         | Scale: 1:24,000      Scaled to A4 |                                                                                       |
|  | Created by: Anna-Marie Dennis     |                                                                                       |

**Figure 2: Application site in relation to the River Itchen SAC**



## Section 2: Screening for likely significant effects:

2.1 The project has been assessed against the stage 1 screening criteria under Regulation 63 of the Conservation of Species and Habitats Regulations, 2017.

2.2 The project is not directly connected to or necessary for the management of the SAC and therefore is not exempt from the Habitats Regulations process (see Table 2). A screening for likely significant effects should be required.

**Table 2. Project necessity/ direct connection with the management of the European Site**

| European Site(s): The River Itchen SAC (UK0012599)                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                     |                                                  |                                                                       |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------|
| Proposed activity/element of the project                                                                             | European qualifying feature                                                                                                                                                                                                                                                                                                                                                                                              | Directly connected with or necessary to management? | Reason for decision                              | Carry forward activity to LSE test?                                   |
| <p>Creation of seven ponds (excavation, shaping and spoil movement).</p> <p>Planting new native trees and hedge.</p> | <p><b>Habitats (code and type)</b><br/>3260 Water courses of plain to montane levels with the Ranunculion fluitantis and Callitriche-Batrachion vegetation*</p> <p><b>Species (code and scientific name)</b><br/>1044 Coenagrion mercuriale*<br/>1163 Cottus gobio*<br/>1092 Austropotamobius pallipes<br/>1096 Lampetra planeri<br/>1106 Salmo salar<br/>1355 Lutra lutra<br/>* = primary reason for site selection</p> | No                                                  | Will not take place within The River Itchen SAC. | Yes- the project is not exempt from the Habitats Regulations Process. |



3.3 The following high impact threats are identified on the standard data form for the site:

***Table 3: Review of high impact threats to The River Itchen SAC in relation to pond proposal***

| Code | Description                                                  | Inside or outside site, or both | Relevance to the project         |
|------|--------------------------------------------------------------|---------------------------------|----------------------------------|
| A04  | Grazing                                                      | Inside                          | None, project is outside the SAC |
| H02  | Pollution to groundwater (point sources and diffuse sources) | Both                            | Requires assessment              |
| J02  | Human induced changes in hydraulic conditions                | Both                            | Requires assessment              |

3.4 Table 4 considers the nature of the designated site and identified threats in relation to the potential impacts of the proposed works.



**Table 4. Scanning and site selection list for European sites that could potentially be affected by a project.**

| Types of project                                                                                                                 | Sites to scan for and check                                                                                                                                                                                                           | The River Itchen<br>SAC |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
|                                                                                                                                  |                                                                                                                                                                                                                                       |                         |
| 1. All projects (terrestrial, coastal and marine)                                                                                | Sites within which the project is wholly or partly located                                                                                                                                                                            | None                    |
| 2. Projects that could affect the aquatic environment                                                                            | Sites upstream or downstream of the project location in the case of river or estuary sites                                                                                                                                            | <b>Uncertain</b>        |
|                                                                                                                                  | Open water, peatland, fen, marsh and other wetland sites with relevant hydrological links to the project, irrespective of distance from the project location                                                                          | None                    |
| 3. Projects that could affect the marine environment                                                                             | Sites that could be affected by changes in water quality, currents or flows; or effects on the inter-tidal or sub-tidal areas or the sea bed, or marine species                                                                       | None                    |
| 4. Projects that could affect the coast                                                                                          | Sites in the same coastal 'cell', or part of the same coastal ecosystem, or where there are interrelationships with or between different physical coastal processes                                                                   | None                    |
| 5. Projects that could affect mobile species                                                                                     | Sites whose qualifying features include mobile species which may be affected by the project irrespective of the location of the project or whether the species would be in or out of the site when they might be affected             | <b>Uncertain</b>        |
| 6. Projects that could increase recreational pressure on European sites where qualifying features are sensitive to such pressure | European sites within which the project would be wholly or partly located                                                                                                                                                             | None                    |
|                                                                                                                                  | Such European sites within an agreed zone of influence, or other reasonable and evidence-based travel distance of the project location, that may be affected by local recreational or other visitor pressure generated by the project | None                    |



| Types of project                                                                                                                       | Sites to scan for and check                                                                                                                                                                                                                                                                                                                                                                   | The River Itchen<br>SAC |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
|                                                                                                                                        | Such European sites within an agreed zone of influence, or other reasonable and evidence-based longer travel distance of the project, which are major (regional or national) visitor attractions such as European sites which are National Nature Reserves where public visiting is promoted, sites in National Parks, coastal sites and sites in other major tourist or visitor destinations | None                    |
| 7. Projects that would increase the amount of development                                                                              | Sites that are used for, or could be affected by, water abstraction irrespective of distance from the project                                                                                                                                                                                                                                                                                 | None                    |
|                                                                                                                                        | Sites used for, or could be affected by, discharge of effluent from waste water treatment works or other waste management streams serving the project, irrespective of distance from the project                                                                                                                                                                                              | None                    |
|                                                                                                                                        | Sites that could be affected by the provision of new or extended transport or other infrastructure                                                                                                                                                                                                                                                                                            | None                    |
|                                                                                                                                        | Sites that could be affected by increased deposition of air pollutants arising from the proposals, including emissions from significant increases in traffic                                                                                                                                                                                                                                  | None                    |
| 8. Projects comprising linear developments or infrastructure                                                                           | Sites within a specified distance from the centre line of the proposed route (or alternative routes), the distance may be varied for differing types of site / qualifying features and in the absence of established good practice standards, distance(s) to be agreed by the statutory nature conservation body                                                                              | None                    |
| 9. Projects that introduce new activities or new uses into the marine, coastal or terrestrial environment                              | Sites considered to have qualifying features potentially vulnerable or sensitive to the effects of the new activities proposed by the project                                                                                                                                                                                                                                                 | None                    |
| 10. Projects that could change the nature, area, extent, intensity, density, timing or scale of existing activities or uses            | Sites considered to have qualifying features potentially vulnerable or sensitive to the effects of the changes to existing activities proposed by the project                                                                                                                                                                                                                                 | Uncertain               |
| 11. Projects that could change the quantity, quality, timing, treatment or mitigation of emissions or discharges to air, water or soil | Sites considered to have qualifying features potentially vulnerable or sensitive to the changes in emissions or discharges that could arise as a result of the project, over and above those already identified                                                                                                                                                                               | None                    |



| Types of project                                                                                                                                     | Sites to scan for and check                                                                                                                                                                                                                                                                                           | The River Itchen<br>SAC |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 12. Projects that could change the quantity, volume, timing, rate, or other characteristics of biological resources harvested, extracted or consumed | Sites whose qualifying features include the biological resources which the project may affect, or whose qualifying features depend on the biological resources which the project may affect, for example as prey species or supporting habitat or which may be disturbed by the harvesting, extraction or consumption | None                    |
| 13. Projects that could change the quantity, volume, timing, rate, or other characteristics of physical resources extracted or consumed              | Sites whose qualifying features rely on the physical resources which the project may affect, for example, as habitat or a physical environment on which habitat may develop or which may be disturbed by the extraction or consumption                                                                                | None                    |
| 14. Projects which could introduce or increase, or alter the timing, nature or location of disturbance to species                                    | Sites whose qualifying features are considered to be potentially sensitive to disturbance, for example as a result of noise, activity or movement, or the presence of disturbing features that could be brought about by the project                                                                                  | None                    |
| 15. Projects which could introduce or increase or change the timing, nature or location of light or noise pollution                                  | Sites whose qualifying features are considered to be potentially sensitive to the effects of changes in light or noise that could be brought about by the project                                                                                                                                                     | None                    |
| 16. Projects which could introduce or increase a potential cause of mortality of species                                                             | Sites whose qualifying features are considered to be potentially sensitive to the source of new or increased mortality that could be brought about by the project                                                                                                                                                     | None                    |



**Table 5. Screening for likely significant effects**

| <b>European Site(s):</b> The River Itchen SAC (UK0012599)                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                            |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                      |                                        |                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------|
| <b>Qualifying Feature(s):</b><br><b>Habitats</b><br>3260 Water courses of plain to montane levels with the Ranunculion fluitantis and Callitricho-Batrachion vegetation*<br><b>Species</b><br>1044 Coenagrion mercuriale; Southern damselfly*<br>1163 Cottus gobio; Bullhead*<br>1092 Austropotamobius pallipes; White-clawed crayfish<br>1096 Lampetra planeri; Brook lamprey<br>1106 Salmo salar; Atlantic salmon<br>1355 Lutra lutra; Otter<br>* = primary reason for site selection |                                                                                            |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                      |                                        |                                           |
| Potential impact of the project                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Conservation Objective attribute(s) likely to be affected                                  | The potential effect and its mechanism/ pathway                                                                                                                                        | Does the project already include measures which would mitigate the potential effects?                                                                                                                                                                                                                                | Likely Significant Effect alone (LSE)? | Likely Significant Effect in combination? |
| 2. Projects that could affect the aquatic environment                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sites upstream or downstream of the project location in the case of river or estuary sites | Inputs into the River Itchen (via Bow Lake) from pond construction activities including spoil use.<br><i>Threat: H02: Pollution to groundwater (point sources and diffuse sources)</i> | The ponds are proposed to be outside of the modelled floodplain. No vehicle movements will be made on the floodplain, and no topsoil or spoil will be spread on the floodplain or in areas where sediments could enter a watercourse (specifically the Bow Lake). Detailed in Planning, Design and Access Statement. | No                                     | No                                        |



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|  |  |                                                                                                                                                                                                                                                        | Standard pollution prevention methods and silt traps will be used to ensure that pollutants or sediment from the construction phase do not enter the Bow Lake either through surface runoff or through the existing drain system. Detailed in Planning, Design and Access Statement.                                                                   | No | No |
|  |  | Changes to the inputs to Bow Lake (upstream of the SAC) as a result of the completed project.<br><i>Threat: H02: Pollution to groundwater (point sources and diffuse sources)</i><br><i>Threat: J02: Human induced changes in hydraulic conditions</i> | Breaking the drain system and creating ponds in Rowley Green Meadow will slow and reduce the flow from the drain into Bow Lake, potentially decreasing sediment and nutrient pollution input. Detailed in Flood Risk Assessment.                                                                                                                       | No | No |
|  |  |                                                                                                                                                                                                                                                        | Planting native trees and hedges may also slow and reduce the flow of surface water down the meadow to Bow Lake, potentially decreasing sediment and nutrient pollution input. Detailed in Flood Risk Assessment.                                                                                                                                      | No | No |
|  |  |                                                                                                                                                                                                                                                        | Management of the project site for nature conservation will be secured for 25 years through a Management Agreement between NCP and EBC. Management plan will specify that site should be managed sensitively with vegetation cutting and mowing as necessary, and will be in accordance with EBC's Stoke Park Farm HP727269 Management Plan (submitted | No | No |



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| 5. Projects that could affect mobile species | Sites whose qualifying features include mobile species which may be affected by the project irrespective of the location of the project or whether the species would be in or out of the site when they might be affected | <p><b>Southern damselfly</b><br/>The River Itchen SAC is a stronghold for Southern damselfly. The species requires unpolluted, baserich, shallow streams with a constant, moderate flow rate and relatively high water temperatures. Threats to the species include loss of open habitat through reduction of grazing, lowering of the water table and nutrient enrichment from runoff.<br/>Source: BDS Southern Damselfly Management Handbook.<br/>There are no records for Southern Damselfly at Stoke Park Farm, and there no suitable habitat for them on the site that would be affected by the project.</p> <p><b>Bullhead, White-clawed crayfish, Brook lamprey and Atlantic salmon</b><br/>There are no specific records for these species in the Bow Lake which is adjacent to the project site. However as mobile species they have potential to be present in the Bow Lake and are known to occur in the SAC which is downstream from the Bow Lake. All could therefore be affected by sediment or pollution inputs to the Bow Lake from project activities.</p> <p><b>Otter</b><br/>Otter are known to be present locally though the riparian habitat along the Bow Lake stream is quite limited and is unlikely to be suitable for resting places.</p> | <p>Nutrient inputs to the SAC through the Bow Lake will not be raised and are likely to be reduced by the project as detailed above.</p> <p>Nutrient inputs to the SAC through the Bow Lake will not be raised and are likely to be reduced by the project as detailed above.</p> <p>Work will take place during daylight hours only. Excavations left overnight will have ramped edges to allow easy exit. Otter will have increased hunting and foraging</p> | No | No |
|                                              |                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No | No |
|                                              |                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No | No |



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|                                                                                                                                    |                                                                                                                                                                      | <p>The section bordering Rowley Green Meadow was surveyed in July by Anna-Marie Dennis and no spraints, footprints or likely resting places were found. Otter occasionally visit the Bow Lake Fish Farm and it is very likely that Otter use the Bow Lake stream for movement and dispersal within the wider area. Otter may be disturbed by the construction activity or enter excavations left overnight.</p>                                                                                              | <p>opportunities from habitat creation in the longer term. Detailed in Ecological Appraisal.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |    |
| <p>10. Projects that could change the nature, area, extent, intensity, density, timing or scale of existing activities or uses</p> | <p>Sites considered to have qualifying features potentially vulnerable or sensitive to the effects of the changes to existing activities proposed by the project</p> | <p>Site was taken out of agriculture in 2021. Currently appropriately managed by EBC so as to avoid exceedance of the 5kgN/ha/yr rate, in accordance with Stoke Park Farm HP727269 Management Plan (submitted as supporting document to the planning application).</p> <p>Habitat creation will increase the biodiversity of the site and some changes to the management will be required to ensure the ponds and surrounding habitat are suitable for great crested newts and a range of other species.</p> | <p>Management of the project site for nature conservation will be secured and funded for 25 years through a Management Agreement between NCP and EBC. The Management Plan will specify that site should be managed sensitively with cutting and mowing as necessary and will be in addition to the requirements of the Stoke Park Farm HP727269 Management Plan. The ponds will be monitored by NCP for the duration of the agreement with results reported to EBC and Natural England. There will be no additional public access to the site. Nutrient inputs to the SAC through the Bow Lake will not be raised and are likely to be reduced by the project as detailed above.</p> | No | No |



### **List of documents referred to throughout**

Great Crested Newt Organisational Licence (WML-OR112)

Planning, Design and Access Statement for PP12767845

Flood Risk Assessment for PP12767845

Ecological Assessment for PP12767845

Stoke Park Farm HP727269 Management Plan

Dalley, G., (2016) The British Dragonfly Society Southern Damselfly Management Handbook is available online here:

[southern damsel management handbook.indd \(british-dragonflies.org.uk\)](https://www.british-dragonflies.org.uk/southern-damsel-management-handbook.indd)