

### RARE SPECIES RECORDING FORM (PAGE 1 of 4)

#### **METHOD**

**Aims:** To find out if Three-lobed Water-crowfoot is i) present in the pond, ii) get an approximate idea of its location and abundance in the pond, iii) collect physical data about the pond that can be used to assess the reasons for any change recorded on future visits, and iv) look in any adjacent ponds to see if Three-lobed Water-crowfoot is present or absent.

- **Equipment:** It's helpful to take a camera (e.g. mobile phone camera) to take confirmatory photos of Three-lobed Water-crowfoot, to take photos of your survey pond for the record, and to take a photograph of your sketch maps if you don't have access to a scanner alternatively you can give your survey forms to your regional officer.
- **Survey timing:** Three-lobed Water-crowfoot is a winter/spring flowering plant and is best surveyed between February and the end of April, before the ponds dry out and whilst the plant is still in flower.
- Where to look: Three-lobed Water-crowfoot grows in shallow water and on the wet mud at the edge of temporary pools which dry up in the summer months. These ponds are often trampled by grazing animals and may occur along heathland footpaths and woodland trackways used by off road vehicles. The ponds are often small and may have little other vegetation growing in them. Don't overlook these small features; survey all available pond habitat.
- Survey the Focal Pond (PondNet): PondNet surveys are based on the random selection of a single pond known to support Three-lobed Water-crowfoot. We call this pond the *Focal Pond*. We identify and survey the focal pond so that we can make repeat visits to the same pond over time and track change in species abundance. It is important not to change the focal pond, because this will affect the results; and could give us a false picture of how the plant is doing.
- Survey all the ponds (Flagship Pond Site): Flagship Pond Sites are some of the best pond sites in the UK, notable
  because they support populations of rare plants and insects. At Flagship Sites known to support Three-lobed Watercrowfoot, we want to do a full survey of all the ponds, to help inform the management of the site. In other words, treat
  every pond at a Flagship Site as if it's a Focal Pond.
- How to survey the Focal Pond: Search the focal pond margins and any shallow water for Three-lobed Water-crowfoot plants, and if found, <u>estimate the number of plants</u> (see below). Draw a sketch map to show <u>the location of Three-lobed Water-crowfoot within the focal pond</u> this may help you and others in the future to search the same area. <u>Fill out the pond habitat survey form for the focal pond</u>.
- How to estimate abundance in the focal pond: If Three-lobed Water-crowfoot plants are found in the focal pond, make an estimate of the number of plants present, and record the results as an abundance category (over page). It can be hard to count the number of plants, especially if they are closely growing or very numerous. The best approach is to count the plants in a small area (e.g. 10 cm² or 1 m²), and multiply this by the area in which Three-lobed Water-crowfoot plants are found. If Three-lobed Water-crowfoot occurs in different areas or habitats in the pond, make separate calculations for each area, and add them to give a total (see table over page). **Note: we only need the overall total for the pond.** 
  - If Three-lobed Water-crowfoot is <u>not found</u> at the pond, please record this, and continue to fill out the environmental sheet and search other ponds in the surrounds. The findings will help identify reasons for the plant's absence from the pond.
- Check other ponds and pools in the surrounds: Finding out if Three-lobed Water-crowfoot occurs in other nearby ponds helps us to understand if the species is part of a larger population, which may be important for its survival. Visit as many nearby ponds or pools to see if Three-lobed Water-crowfoot is present. You don't need to record plant abundance, or environmental data at these other ponds (unless you are on a Flagship Pond Site (see note above)).
  - It will be helpful to revisit these other ponds in future years. So, to ensure they can be found again by yourself or others please (a) provide an accurate grid reference and/or mark the locations on your PondNet base map, or (b) make a sketch of the location of ponds around the focal pond and (c) take photos. Then, upload the maps and photos to the website.

What it looks like: Water-crowfoots are a tricky group to identify – even for experts. Fortunately, Three-lobed water-crowfoot is one of the more straightforward species - once you have your eye in for the right leaf shape. We have produced a "Species Information Sheet" and "How to . . ." identification guide if you need some more hints and tips to recognise Three-lobed Water-crowfoot www.freshwaterhabitats.org.uk/projects/pondnet.

Once completed, enter your results online: <a href="www.freshwaterhabitats.org.uk/projects/waternet">www.freshwaterhabitats.org.uk/projects/waternet</a>, or give your recording forms and maps to your regional project officer and we can enter the data for you.

Three-lobed Water-crowfoot: Features are variable and hybrids are common in some areas – try to match all the features to reach a positive identification:

- (a) Floating leaves deeply 3-lobed, middle lobe usually narrower than lateral lobes;
- (b) Submerged thread-like (capillary) leaves present;
- (c) Small flowers (petals <5mm), Dec-April, petals similar in length or only slightly longer than the sepals.

(a) Floating leaves



(b) Submerged leaves



(c) Small white flowers





## RARE SPECIES RECORDING FORM (PAGE 2 of 4)

| Your name (and other surveyors)                                                                                                                                                                                               |                                                                                                                                             | Date                                                                                                                                   |                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Square: 4 figure grid ref                                                                                                                                                                                                     | 0.00                                                                                                                                        | Pond: 8 figure grid ref                                                                                                                |                                                                               |
| e.g. SP1243 (see your map)  Pond name                                                                                                                                                                                         | e.g. SP                                                                                                                                     | 1235 4325 (see your map)                                                                                                               |                                                                               |
| (if known, or mark on a map)                                                                                                                                                                                                  |                                                                                                                                             |                                                                                                                                        |                                                                               |
| Determiner name ( <u>optional</u> - if                                                                                                                                                                                        |                                                                                                                                             | oucher material ( <u>optional</u> -                                                                                                    |                                                                               |
| someone confirms the identity of the species you've recorded)                                                                                                                                                                 | commen                                                                                                                                      | It if you've taken a photo to confirm identification)                                                                                  |                                                                               |
| Number of Three-lobed Water                                                                                                                                                                                                   | -crowfoot plants in you                                                                                                                     | ır Focal Bond                                                                                                                          |                                                                               |
| Record the number of Three-lobed Water-c<br>1, 2-5, 6-10, 11-20, 21-50, 51-100, 101-2<br>and multiply up. We've put a table below to<br>If you find Three-lobed Water-crowfoot plea                                           | crowfoot plants found in the foca<br>200, 201-500, 501-1000, 1000+.<br>The help you keep track and make<br>ase take a confirmatory photo, e | Il pond using the following cate If there are many plants, count notes, but for the analysis we o specially if it's the first time the | the number in a small area<br>nly need a total.<br>pond has been surveyed for |
| PondNet. You can also take a photo of you  Pond habitat type or areas where the                                                                                                                                               | e plant is found (list): use the                                                                                                            | · · · · · · · · · · · · · · · · · · ·                                                                                                  | Number of plants                                                              |
| number calculations, and so you/other  1.                                                                                                                                                                                     | s can re-tind plants                                                                                                                        |                                                                                                                                        |                                                                               |
| 2.                                                                                                                                                                                                                            |                                                                                                                                             |                                                                                                                                        |                                                                               |
| 3.                                                                                                                                                                                                                            |                                                                                                                                             |                                                                                                                                        |                                                                               |
| 4.                                                                                                                                                                                                                            |                                                                                                                                             |                                                                                                                                        |                                                                               |
| <u>Total numb</u>                                                                                                                                                                                                             | per of Three-lobed Water-cr                                                                                                                 | owfoot plants (category)                                                                                                               |                                                                               |
| Three-lobed Water-crowfoot looked Note if you don't find evidence of Three pond, this is an important result so please.  Species notes: Please add any views of lobed Water-crowfoot, and thoughts on who declining / absent. | e-lobed Water-crowfoot at the ase still enter these findings on pond condition for Three-lay it may be abundant /                           | Sketch map: Use this box to lobed Water-crowfoot plants in                                                                             |                                                                               |
| Search other ponds and pool: Please search other ponds or pools in the                                                                                                                                                        |                                                                                                                                             |                                                                                                                                        |                                                                               |
| Water-crowfoot is present or absent. Then summary questions about the additional prohelp re-find these other pools: (a) mark PondNet base map (in your site information whether Three-lobed Water-crowfoot was                | complete the following ond search. Itheir locations on your on pack) and indicate                                                           |                                                                                                                                        |                                                                               |
| Was Three-lobed Water-crowfoot found     Yes    No (tick)                                                                                                                                                                     | d in any additional ponds?                                                                                                                  |                                                                                                                                        |                                                                               |
| 2. How many additional ponds did you were searched put a zero in both thes                                                                                                                                                    | e boxes)?                                                                                                                                   |                                                                                                                                        |                                                                               |
| Number of additional porecord for Three-lobed Excluding the focal pond, had Three-lobed Water-o                                                                                                                               | Water-crowfoot. how many other ponds                                                                                                        |                                                                                                                                        |                                                                               |
| Number of additional per<br>record for Three-lobed<br>Excluding the focal pond,<br>did not have Three-lobe                                                                                                                    | water-crowfoot.  how many other ponds                                                                                                       |                                                                                                                                        | heritage lottery fund                                                         |



#### RARE SPECIES RECORDING FORM (PAGE 3 of 4)

#### **FOCAL POND HABITAT SURVEY:**

This is a really important part of the survey at your focal pond. Please complete this Pond Habitat Survey for <u>your</u> focal pond, whether or not you find Three-lobed Water-crowfoot at the site.

Each variable provides information known to be linked to pond quality and community type, and can be used to investigate the reason for change in Three-lobed Water-crowfoot occurrence.

| See the pond new? (less than 10 yrs old)   Year of creation?   Adate, decade, unknown   Pond area   Note: This is the surface area of the pond when the water is at its highest level (usually in early spring). It with probably not be the current water level of the pond. The high water level line should be evident from wetland vegetation like rushes at the pond's outer edge. Measure by pacing (single pace e. 0.8-Im) or use online may be present and the pond of the pond. The high water level line should be evident from wetland vegetation. It is a new or the pond so dire edge. Measure by pacing (single pace e. 0.8-Im) or use online may be present plugged pace. It is a new pacing the pond of    |           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                             |                                     |                                     |                                      | _                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|----------------------------------|
| Note: This is the surface area of the pond when the water is at its highest level (usually in early spring). It wiprobably not be the current water level of the pond. The high water level line should be evident from weltand vegetation like rushes at the pond's outer dege. Measure by pacing (single pace = 0.8 into or only in drought, 2 = rarely dries = 3 = sometimes 4 = annually = 1 = Never dries = 2 = Rarely dries: on more than 2 years in any 10 year period, or only in drought, 2 = Rarely dries: on more than 2 years in any 10 year period, or only in drought, 3 = sometimes dries: dries between three years in ten to most years, 3 = sometimes dries: dries between three years in ten to most years, 4 = Dries annually beduce pond permanence from local knowledge (e.g. landowner) and personal judgement e.g. water level at the time of the survey. Prodist that dry out annually usually have a hard base.    Overhanging trees & shrubs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                                                                                                                                   | an 10 yrs old)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                             |                                     |                                     | _                                    | _                                |
| probably not be the current water level of the pond. The high water level line should be evident from wetland vegetation like rushes at the pond's outer edge. Measure by pacing (single pace = 0.8-1m) or use online may respect to the pond's outer edge. Measure by pacing (single pace = 0.8-1m) or use online may respect to the pond of the pond's difference of the survey. Ponds that dry out annually as a sometimes of the survey. Ponds that dry out annually usually have a hard base.    Overhanging trees & shrubs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Pond area | a                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                             | _                                   |                                     |                                      |                                  |
| 1 = never dries   2 = Rarely dries: no more than 2 years in any 10 year period, or only in drought, 2 = rarely dries   3 = Sometimes dries: dries between three years in ten to most years, 3 = sometimes   4 = Dressonal judgement e.g. water level at the time of the survey. Ponds that dry out annually usually have a hard base.    Overhanging trees & shrubs   % of pond overhung by trees and shrubs   % of pond margin overhung to at least 1m out from the   % of pond margin overhung to at least 1m out from the   2 = minor   3 = none   Major = severe impact of waterfowl e.g. few or no submerged plants, water turbid, pond banks have patches where vegetation removed, feed put down; Minor = waterfowl present, but little   2 = minor   3 = none   Major = dense populations of fish known to be present; Minor = waterfowl present, but little   year   y   |           | <b>Note:</b> This in probably <i>no</i>                                                                                           | t be the current water level                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | of the pond. The                                                            | ne high water                       | level line sh                       | ould be evident f                    | rom wetland                      |
| overhung by trees and shrubs overhung by trees and shrubs if the sun was overhead (use the diagram (below) as a guide).  Waterfowl impact  1 = major 2 = minor 3 = none  Fish presence  1 = major 2 = minor 3 = possible 4 = absent  Aquatic vegetation: includes emergent, floating (e.g. duckweeds) or submerged (e.g. water-crowfoot) species to see a list of emergent species look at the survey guide www.freshwaterhabitats.org.uk/projects/pondnet/survey-options/habitats  Water left in the pond  Grazing  Tick if there is evidence the pond is grazed by livestock.  Imagior overhung by trees and shrubs, i.e. that would be shade if the sun was overhead (use the diagram (below) as a guide).  overhung by trees and shrubs, i.e. that would be shade if the sun was overhead (use the diagram (below) as a guide).  was overhead (use the diagram (below) as a guide).  Major = severe impact of waterfowl e.g. few or no submerged plants, water turbid, pond banks are not denuded of vegetation, pond still supports submerged plants and banks are not denuded of vegetation or pond vegetation, pond still supports submerged plants and banks are not denuded of vegetation or stickleback known to be present;  Major = severe impact of waterfowl e.g. few or no submerged plants, water turbid, pond banks are not denuded of vegetation or pond vegetation, pond still supports submerged plants and banks are not denuded of vegetation femorems and banks are not denuded of vegetations of fish known to be present;  Major = severe impact of waterfowl e.g. few or no submerged plants, water flow, in file in the pond water surface area for couch of sink hnown to be present;  Major = dense populations of fish known to be present;  Possible = no evidence of fish, but local conditions of fish known to be present;  Aquatic vegetation: includes emergent, floating and submerged plants and banks are not denuded of vegetation, possible and pos | Pond drie | 1 = never dries<br>2 = rarely dries<br>3 = sometimes                                                                              | <ul> <li>2 = Rarely dries: no mode</li> <li>3 = Sometimes dries: d</li> <li>4 = Dries annually. Ded</li> <li>personal judgement e.g.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ries between th<br>luce pond perm<br>water level at t                       | ree years in anence from            | ten to most y<br>local knowle       | /ears,<br>edge (e.g. landow          |                                  |
| 1 = major 2 = minor 3 = none                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Overhang  | % of pond over % pond margin                                                                                                      | hung by trees and shrubs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ut from the                                                                 | overhung by if the sun wa           | y trees and sl                      | nrubs, i.e. that wo                  | uld be shaded                    |
| 1 = major 2 = minor 3 = possible 3 = possible 4 = absent 4 = absent 5 = possible 4 = absent 5 = possible 4 = absent 6 = possible 4 = absent 6 = possible 4 = absent 6 = possible 4 = absent 7 = possible 4 = absent 8 = possible 4 = absent 9 = possible 4 = absent 9 = possible 4 = absent 9 = possible 4 = possible 5 = possible 5 = possible 6 = possib | Waterfow  | 1 = major<br>2 = minor                                                                                                            | have patches where veget<br>impact on pond vegetation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | tation removed<br>n, pond still sup                                         | , feed put dov<br>ports submer      | wn; <b>Minor</b> =<br>rged plants a | waterfowl preser<br>and banks are no | nt, but little                   |
| % of the whole pond (wet and dry) occupied by emergent vegetation – incl. plants like grasses, water mint and rushes, but not floating (e.g. duckweeds) or submerged (e.g. water-crowfoot) species - to see a list of emergent species look at the survey guide www.freshwaterhabitats.org.uk/projects/pondnet/survey- options/habitats  % of pond water surface area covered by all vegetation (emergent, floating (excl. duckweed) and submerged).  Water left in the pond % of water area in pond relative to maximum water level – This can be 0% if the pond has dried out.  Drawdown (height drop from maximum winter water level to current level).  Grazing  Tick if there is evidence the pond is grazed by livestock. If yes complete the following boxes: % of whole pond grazed (note: stock can wade into shallow ponds to graze).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Fish pres | 1 = major<br>2 = minor<br>3 = possible                                                                                            | goldfish or stickleback kno<br>suggest that they may be                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | own to be prese                                                             | ent; Possible                       | = no eviden                         | ce of fish, but loc                  | al conditions                    |
| % of water area in pond relative to maximum water level — This can be 0% if the pond has dried out.  Drawdown (height drop from maximum winter water level to current level).  Drawdown (height drop from maximum winter water level between maximum current water level)  Grazing  Tick if there is evidence the pond is grazed by livestock. If yes complete the following boxes:  % of whole pond grazed (note: stock can wade into shallow ponds to graze).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | %         | % of the whole vegetation – incomplete in the not floating (e.g. species - to see www.freshwate options/habitate) % of pond water | pond (wet and dry) occupied cl. plants like grasses, water graces, water | ed by emergenter mint and rushed (e.g. water-clook at the surpondnet/survey | les, but<br>rowfoot) 3<br>vey guide | 30%                                 |                                      |                                  |
| Tick if there is evidence the pond is grazed by livestock.  If <b>yes</b> complete the following boxes:  % of whole pond grazed (note: stock can wade into shallow ponds to graze).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | %         | % of water area<br>level – This car<br>Drawdown (hei                                                                              | n be 0% if the pond has drie<br>ght drop from maximum wir                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ed out.                                                                     | water level                         |                                     | (heigh                               | tht difference<br>veen maximum & |
| % of pond perimeter grazed (note: stock can wade into shallow ponds to graze otherwise inaccessible edges).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | %         | If <b>yes</b> complete % of whole pon                                                                                             | the following boxes: d grazed (note: stock can w                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | vade into shallo                                                            |                                     | ŕ                                   | arwisa inagassali                    | olo odgos)                       |

Grazing intensity: rank 1-5 (1=infrequent or low intensity to 5 = margins heavily poached and almost bare).



## RARE SPECIES RECORDING FORM (PAGE 4 of 4)

| Pond management (tick):                                                                       |                | ent within                                                                    | n the last 12 mont                                                                                                                                                           | ths lise 'other'                | ' hox for ar            | ny extra in            | fo               |              |             |         |
|-----------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------|------------------------|------------------|--------------|-------------|---------|
| Fully dredged Partly dre                                                                      |                | in the last 12 months. Use 'other' box for any exedged >5% vegetation removed |                                                                                                                                                                              |                                 |                         | <5% vegetation removed |                  |              |             |         |
|                                                                                               |                | Trees cle                                                                     |                                                                                                                                                                              |                                 |                         |                        | _                | hanged sh    |             |         |
|                                                                                               |                |                                                                               |                                                                                                                                                                              |                                 | -                       | apo / 0.20             |                  |              |             |         |
| <u> </u>                                                                                      |                | Bank plar                                                                     | its mown                                                                                                                                                                     | Structural wor                  | k e.g. to da            | urri                   | Silaw a          | auueu        |             | 1       |
| Add other or more detail                                                                      |                |                                                                               |                                                                                                                                                                              |                                 |                         |                        |                  |              |             |         |
| Water chemistry: Comple                                                                       | te this        | section i                                                                     | f suitable kits and                                                                                                                                                          | d meters are a                  | available (             | or leave b             | olank):          |              |             |         |
| рН                                                                                            |                |                                                                               |                                                                                                                                                                              |                                 |                         |                        |                  |              |             |         |
| Conductivity                                                                                  | <b>/</b> (µS c | m <sup>-1</sup> )                                                             |                                                                                                                                                                              |                                 |                         |                        |                  |              |             |         |
| Nitrate (NO <sup>3-</sup> -N ppm): PPV                                                        | V kits p       | rovided                                                                       | by FHT                                                                                                                                                                       | Phosph                          | ate (PO <sub>4</sub> 3- | -P ppm):               | PPW kits         | provided     | by FHT      |         |
| (tick one from the following                                                                  | range          | categor                                                                       | ies)                                                                                                                                                                         | (tick one                       | from the                | following              | range ca         | tegories)    |             |         |
| <0.2 0.2-0.5 0.5-1                                                                            | 1-2            | 2-5                                                                           | 5-10 10+                                                                                                                                                                     | <0.02                           | 0.02-0.05               | 0.05-0.1               | 0.1-0.2          | 0.2-0.5      | 0.5-1       | 1 +     |
|                                                                                               |                |                                                                               |                                                                                                                                                                              |                                 |                         |                        |                  |              |             |         |
| Turbidity / water clarity: I  1 = clear; 2 =  Inflows and outflows: (tide Inflow present      | mode           | rately cle                                                                    | ear; 3 = moderat                                                                                                                                                             | ely turbid; 4 =<br>leave blank) | •                       | ter in the             | pond.            |              |             |         |
| Dandhasa.                                                                                     |                |                                                                               |                                                                                                                                                                              |                                 |                         |                        |                  |              |             |         |
| <b>Pond base</b> : This refers to the <i>geology</i> (i.e.                                    | rock-tv        | ne) that i                                                                    | mmediately underl                                                                                                                                                            | lies the nond Y                 | ou may kno              | ow or he a             | hle to see       | the under    | lvina aeol  | oav in  |
| the base or banks of the pond                                                                 |                |                                                                               |                                                                                                                                                                              |                                 |                         |                        |                  |              | iyirig goon | ogy III |
| Choose one of the followin                                                                    | g to ca        | tegorise                                                                      | the % compositi                                                                                                                                                              | on of <b>each</b> of            | pond bas                | e: 1= 0-32             | <u>2%, 2=</u> 33 | 3-66%, 3=    | 67-1009     | %       |
| Silt/ clay                                                                                    | Sar            | nd, grave                                                                     | l, cobbles                                                                                                                                                                   | Hard rock                       |                         | Peat                   | C                | ther (plea   | ase speci   | fy)     |
| Surrounding land use:<br>Estimate the <u>percentage</u> of su<br>assess pond area. In many po |                |                                                                               |                                                                                                                                                                              |                                 |                         | er (i.e. the i         | maximum          | winter wat   | er level) u | sed to  |
| Habitat                                                                                       | 0-5m           | 0-100m                                                                        |                                                                                                                                                                              |                                 | Ex                      | amples                 |                  |              |             |         |
| Trees, woodland & scrub                                                                       | %              | %                                                                             | Deciduous and co                                                                                                                                                             | oniferous wood                  | land, indivi            | dual trees,            | scrub and        | d hedgerov   | /S.         |         |
| Heath & moorland                                                                              |                |                                                                               | Lowland and upla                                                                                                                                                             | and heathland,                  | moorland a              | ind mounta             | ain; include     | es bracken   |             |         |
| Rank vegetation                                                                               |                |                                                                               | Unmanaged gras                                                                                                                                                               |                                 |                         |                        |                  |              |             | •       |
| Unimproved grassland                                                                          |                |                                                                               | Herb-rich, calcare Low percentage of                                                                                                                                         |                                 |                         |                        |                  |              | ually prese | ent).   |
| Semi-improved grassland                                                                       |                |                                                                               | A transition categ                                                                                                                                                           | ory. Grassland                  | s modified              | by fertilise           | rs, drainag      | je, herbicio | les or inte | nsive   |
| Improved grassland                                                                            |                |                                                                               |                                                                                                                                                                              |                                 |                         | -                      |                  |              | aolf areen  | S.      |
| Arable                                                                                        |                |                                                                               | Fertile agricultural grass, often bright green and lush; including parks and golf greens.  All crops. Includes flower and fruit crops (e.g. strawberries) and ploughed land. |                                 |                         |                        |                  |              |             |         |
| Urban buildings & gardens                                                                     |                |                                                                               | Areas in curtilage (associated with buildings); including glass-houses and farm yards.                                                                                       |                                 |                         |                        |                  |              |             |         |
| Roads, tracks & paths                                                                         |                |                                                                               | Including car-parks and footpaths.                                                                                                                                           |                                 |                         |                        |                  |              |             |         |
| Rock, stone & gravel                                                                          |                |                                                                               | Cliffs, rock-outcrops, gravel-pits, quarries, areas of sand and gravel or stone.                                                                                             |                                 |                         |                        |                  |              |             |         |
| Bog, fen, marsh & flush                                                                       |                |                                                                               | Wetland vegetation and blanket bog.                                                                                                                                          |                                 |                         |                        |                  |              |             |         |
| Ponds & lakes                                                                                 |                |                                                                               | Permanent and seasonal waterbodies; including trackway pools.                                                                                                                |                                 |                         |                        |                  |              |             |         |
| Streams & ditches                                                                             |                |                                                                               | Rivers, streams, ditches, springs and canals.                                                                                                                                |                                 |                         |                        |                  |              |             |         |
| Other (state)                                                                                 |                |                                                                               | E.g. maritime veg                                                                                                                                                            | getation, saltma                | rsh, sand-o             | dune, orcha            | ards and ra      | ailways.     |             |         |
|                                                                                               |                |                                                                               | in a protected a                                                                                                                                                             |                                 | ure reserv              | /e, SSSI,              | etc.)            |              |             |         |
| How much of pond perin surveyed? Note areas of                                                |                |                                                                               |                                                                                                                                                                              |                                 |                         |                        |                  |              |             |         |
| <b>Comments box:</b> e.g. new since previous visit, any of                                    |                |                                                                               |                                                                                                                                                                              |                                 |                         |                        |                  |              |             |         |