

# Improvement Plan for Great Crested Newts Westfield Common 3rd Year Review

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Submitted to: Prepared by:

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# **Revision History**

Revision	Date	Amendment
1	28.11.2019	First submission

## Non-Technical Summary

Woking Borough Council is involved in a five year pilot project with Natural England which is based on a landscape-wide approach to great crested newt (GCN) mitigation. The project aim is to achieve the favourable conservation status of this species more strategically across the whole borough rather than by imposing 'piecemeal' mitigation strategies at numerous localised sites.

The first three years of the Westfield Improvement Plan have been completed. Most of the works in accordance with the original Improvement Plan have been achieved as scheduled but with a few amendments. Monitoring between 2017 and 2019 has shown that ponds in both the north and the south have improved in terms of their suitability to support newts through the decrease in shading, increase in marginal vegetation and water quality. The amount of deadwood surrounding the ponds has increased across the site with the inclusion of multiple hibernacula across Westfield Common.

Habitat and range have significantly increased for great crested newts across Westfield Common with the construction of newt ponds SWC7 and SWC9 which are located to the south of Moor Lane. In addition they have been constructed to support dead hedges that provide terrestrial habitat for newts whilst creating a barrier to dogs entering the water bodies. The local resident volunteers supported the works by transplanting marginal vegetation and with continued works to open up the patches of woodland.

Monitoring, including bottle trapping for the first time in 2019, was undertaken twice, once in April and once in May. In previous years pollen floating on the water's surface had obscured the torch light surveys which may have impacted the newt counts. Based on the bottle trapping, the northern (ponds 11 to ditch 14) showed that the GCN population supported a meta-population with a max. count of 33 (GCN), with GCN counted in every water body (except pond 13). Given the management and the monitoring data it is considered that the northern population is in good condition and it's now a matter of maintaining the management of this area of the Common to allow GCN to continue to develop. The southern (ponds 1 to 4) population within the Common recorded no GCN in the bottle traps so confirming the previous year's torch light surveys that the ponds support a very low population of GCN, although GCN eggs were recorded in Pond 2 on marginal vegetation that is developing around the edge of the pond. Pond NWC4 which included the seeding of GCN eggs in the previous year has shown no evidence of GCN to date and further seeding is recommended in future years. The offsite ponds 21 and 22 again showed a good number of GCN with a total count of 29 GCN which suggests that the newts within these ponds are stable.

Works were also undertaken to line a part of Pond 3 in September 2019. This complex of waterbodies had continued to dry out early in the season and given the strategic location of the pond the decision was made to line a section of it so that there is a range of pond types (permanent and ephemeral water bodies).

The number of volunteers contributing to the newt survey work also significantly increased which incorporated the group of residents involved in working with Surrey Wildlife Trust on managing areas of Westfield Common such as Bonsey Wood, proving a significant help. In addition local land access continued to be positive allowing access to a range of ponds away from Westfield Common.

Year four works will continue to work on increasing the numbers of ponds across the Common, and will see the completion of the network of ponds that has the potential to see a continues link of water bodies right across the common spaced at distances of less than 250m from each other.

An initial review of the Favourable Conservation Status (FCS) of the whole of Woking was started with a view to creating a tool for the long-term decision making of future GCN works. This work is ongoing with a view to work with Natural England to complete this work.



#### 1 Introduction

The first three years of the Westfield Common Improvement Plan have been completed. This report summarises the findings and works completed to date with updates of any amendments considered appropriate for works in year four.

#### 1.1 Background Scope to the Project

The purpose of the project is to fulfil the requirements of the pilot scheme for the new, landscape-wide approach to great crested newt mitigation in Woking. The Westfield Common Improvement Plan was written by ADAS in 2016 to realise the following elements:

- Enhancement and creation of ponds;
- Enhancement of habitat connectivity with the wider metapopulation of great crested newts within the borough;
- A monitoring strategy to assess great crested newt population sizes and habitat quality at Westfield Common; and
- Consideration of a monitoring strategy to assess the scale of loss of known 'great crested newt zones' to development and general population trends within the borough.

In addition to the above elements, which are specifically included to be of benefit to great crested newts, the Improvement Plan has considered the following wider issues relating to Westfield Common:

- Benefits to other notable flora and fauna which occur or may occur at the Common; and,
- Management of invasive plants which are known to occur at the Common.

The Improvement Plan is designed to add to the current existing Management Plan produced by Surrey Wildlife Trust (Surrey Wildlife Trust, 2014 and updated in 2017). The 2014 Management Plan identified five features associated with Westfield Common, which are: woodland, pond and ditches, grassland, community and monitoring. This Improvement Plan in effect adds a sixth feature: great crested newts. Therefore there will be some degree of overlap between the existing Management Plan and the Improvement Plan.



#### 1.2 Consultation

The third year of the project has worked with a range of organisations that include:

- Woking Borough Council;
- Natural England;
- Surrey Wildlife Trust;
- Amphibian and Reptile Conservation (ARC);
- Surrey Amphibian Reptile Group (SARG);
- Residents associations, Friends of Westfield Common volunteers; and
- SERCO, Woking Borough Council's environmental partner.

Key consultation events in the second year included:

14th October – Local Stakeholder meeting.

#### 1.3 Publicity

The works associated with the district licence was shown to a representative from the World Wildlife Fund (WWF) on 18<sup>th</sup> April 2019.

Coverage of the works were covered in the Woking Borough Councils Woking e-newsletter.

An update on the great crested newt Pilot project was made to Woking Borough Councils meeting held on 5<sup>th</sup> December 2019.

Additional publicity was held with local groups to promote the surveying of the ponds across Westfield Common. The number of surveyors involved in the project showed an increase from last year with a total of 19 volunteer surveyors representing five different groups.

#### 1.4 Training

Training as part of the monitoring was also provided to the volunteers both in the identification of the newts and the survey techniques. On completion of the surveying one of the volunteers was signed off on their Natural England newt survey licence.

#### 1.5 Planning

It is understood that there has been no further planning applications that have signed up to the district licence in 2019.



# 1.6 Licence update

Woking continues to work under Natural England District Level License (DLL) - reference WML – OR21-2, which runs between 24 September 2018 and 23 September 2020.



## 2 Third Year Update

#### 2.1 Practical Works

Based on the Year 3 plan all the practical works were completed as prescribed in the Improvement Plan (ADAS, 2016) and in relation to the amendments made within the 2<sup>nd</sup> year review report (ADAS, 2018). In summary these works have included the following (relevant prescription numbers from the Improvement Plan are noted in brackets), photos are presented in Appendix 1 and pond locations are identified in the plan presented in Appendix 2, which shows the 2019 survey results:

#### North of Westfield Common:

Coppice around pond 11 (completed by SWT) and newly created pond (NWC6).

#### South of Westfield Common:

- Create a new pond (SWC7) (Photo 1 & 2);
- Create a new pond (SWC9) (Photo 3); and
- Line a part of pond 3 (Photo 4);

#### Not completed:

- Prepare a plan for pond for restoration off Moor Lane to replace the construction of new pond
   CWC1 details of pond have been recorded plan still to be drawn up.
- Use of oak for the production of furniture onsite (AWC4).

Year 3 saw a dry spring compared with year 2. The new ponds and ponds restored held water through the summer months except for pond 11a with ponds 11 and 12 (Photo 5) being very low by July. Pond 1 and 3 also dried out completely by June.

#### 2.2 Planning, Consents and Signage

All planning and consents are in place, which fall under:

- Felling licence (AWC1) Forestry Commission (licence number 019/389/16-17), which is valid until 23rd November 2021;
- Planning application (AWC2) Planning reference PLAN/2017/1017; (creation of five ponds and extension of an existing pond (habitat improvement for great crested newts) and COND/2017/0135 (discharge of condition 3 regarding arboricultural information).
- Trial holes to test for contaminates (AWC3) were checked for in accordance to the pointer poster carried on site. No contaminates were recorded during the desilting works; and

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Access and signage (AWC4) was erected prior and during works.

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#### 2.3 Monitoring

Based on Year 3 monitoring a series of monitoring surveys including Habitat Suitability Surveys (HSI) (MWC1) and breeding - prescence/absence surveys (MWC2) were completed on 17<sup>th</sup> and 18<sup>th</sup> April and 20<sup>th</sup> and 21<sup>st</sup> May 2019, with a group of volunteers who contributed to the survey effort (Photo 6, Appendix 1). In brief the results identified the following:

#### North of Westfield Common

Ponds 11, 11(new), 11a, and 12 were all recorded with great crested newt eggs, this was the first year GCN eggs had been recorded in the newly built pond 11(new). The eggs were recorded on a range of material which included, float grass (*Glyceria fluitans*) and willowherb (*Epilobium* sp.). The level of egg layering material at all waterbodies is now at a suitable level, except for Ditch 14, which is heavily over shaded.

The highest great crested newt count of any of these ponds was 19 (10 male and 9 female) recorded in pond 11 recorded on 21<sup>st</sup> May from the bottle traps. In total the meta-population counts in April were 33 and in May 31 taken from the bottle trapping figures.

#### South of Westfield Common

Pond 2 and 21 and 22 (private residence) were all recorded with the presence of great crested newt eggs on 17<sup>th</sup> April 2018. Eggs were typically recorded on float grass and canary reed grass (*Phalaris arundinacea*). During the torch light survey on 20<sup>th</sup> May 2019 the highest great crested newt count was recorded in pond 22 with a total of 25 (13 male and 12 female). Bottle traps placed in ponds 1, 2 and 3 identified no GCN but smooth newts (1 male and 1 female) were recorded by torch light in pond 2, the first newts to be recorded in this pond.

The ponds across Sutton Green golf course were in general found to be sub-optimal in the surveys conducted in 2017. Therefore effort was reduced to record ponds 18 to 20 and the large wet Flush 9a. No GCN were identified in any of the ponds and pond 18, where previously GCN were recorded in 2018, fish were observed, which is likely to have an adverse impact on the presence of GCN using the pond

Other eDNA results included pond 1 which was positive with an eDNA score of 2 of 12, pond 18 was negative and pond 4 was also negative.

Full details of the surveys are presented in the plan in Appendix 3 - HSI results plus notes on the ponds and Appendix 4 - 2019 survey results.

#### Wider Westfield Common – (Prescirptions MWC5 and MWC6)

A study area has been assessed based on a grid using 48 - 250m squares which equates to 3km<sup>2</sup> to look at the parameters to achieve Favourable Conservation Status (FCS) for Westfield Common, details of which



are set out in the 2<sup>nd</sup> year review report (ADAS 2018); in addition the 2018 ADAS report recorded Favourable Reference Values (FRV) for range, population and habitat. Based on the completion of the works in 2019 the FRV values to date and the target figure are presented in the table below and shown in the plans set out in Appendix 5:

Table 1: Favourable reference values (FRV) in relation to the study area associated with Westfield Common.

	Range		ge Population HSI ponds		Habitat	
	250m actual squares*	250m potential additional squares**	HSI ponds ≥0.7	Occupied ponds	Available habitat (ha)***	Occupied GCN habitat (ha)****
Baseline (2016)*	21	8	7	6	53	46.65
2017	21	14	8	8	122	49.88
2018	24	12	10	9	129	56.83
Current (2019)	24	12	13	9	135	48.28
Study area Target	36		15	13	137	81.94

<sup>\*</sup>Range based on known GCN occupied ponds

Future prospects, which is the fourth of parameter under the Favoruable Conservation Status, has no target measurement. For this parameter, based on the Risk Register set out in the 2<sup>nd</sup> year review (ADAS 2018), the following comments are made:

#### *Legislation/community – (7 factors)*

No significant change except to note that the local community continue alongside the Wildlife Trust to support and mange areas of the common. In addition there is continued financial support for these conservation works. Community engagement and financial support are considered the two critical factors under Legislation/Community of the risk register, which will likely to be maintained in perpetuity.

#### Disease/invasives – (6 factors)

The most notable impact has been fish identified in pond 18 associated with the golf course. Fish introduction into ponds on third party land are always at greater risk than those ponds directly under the ownership of the council. Motorbike issues seemed to of reduced across Westfield Common aided by measures taken in 2018. Buddleia located around ponds 2 and 3, whilst not a direct threat, requires



<sup>\*\*</sup>Range of additional squares with ponds with a HSI equal to or greater than 0.7.

<sup>\*\*\*</sup>Available habitat based on known GCN occupied ponds and ponds with a HSI equal to or greater than 0.7. Habitat included is habitat considered to be of good or medium terrestrial habitat.

<sup>\*\*\*\*</sup>Known occupied terrestrial habitat 250m from ponds with known population of GCN.

continued monitoring as this species can spread rapidly and shade out native flora more suited as terrestrial habitat for GCN. The buddleia to date has been pulled up.

#### Habitat impacts – (3 factors)

All three of the risk factors under this section have improved and not having sufficient suitable waterbodies is arguably no longer critical, in particular, in relation to the northern section of Westfield Common (Bonsey Wood). Works need to focus on ensuring the suitable waterbodies become populated with GCN.

#### Wider Borough – (4 factors)

Climate change has been considered within the design of the pond network ensuring that the designs vary providing a range of permanent and ephemeral water waterbodies whilst in addition linking up terrestrial habitat. There are ongoing communications with third party landowners to improve habitat for GCN. Continued works are also required to look at the wider Woking district to establish a greater decision making tool for future GCN investment.

#### **Great crested newt zones**

Two prescriptions relating to the wider zones, MGZ1 Great crested newt zones and MGZ3 Legal and future framework were not completed. However prescription MGZ1 is mostly covered by the Natural England (Appendix 10) report (Woking Borough Council, 2016). A third prescription, MGZ3, liaison with other landowners has continued during the year with communications made with landowners continuing to allow access with the potential to extend works beyond the common.



# 3 Objectives

No further amendments to the objectives.

Objective 1 is considered to be on target with conditions to improve great crested newt populations in both the north and south of Westfield Common having been improved and the evidence shows there is a good medium sized population in the north of the common, whilst the newts in the south remain very low.

Objective 2 – Favourable Reference have now been set for Westfield Common and works are ongoing to set the figures for the wider Woking district.

#### 3.1 Other Wildlife

Part of the objectives was also to consider that the benefits to other wildlife as a result of the works. Due to the opening of the water bodies there have been some instant noticeable improvements that will be benefiting a range of other wildlife. This includes the potential benefit to other amphibians that includes smooth newt (*Triturus vulgaris*), common frog (*Rana temporaria*) and common toad (*Bufo bufo*). One noticeable plant species was observed which was heather (*Calluna vulgaris*), next to pond 2, and is likely to of occurred due to the disturbance of the soil.

The invasive butterfly bush (*Buddleia davidii*) is a constant concern occurring along the margins of ponds 2 and 3. All bushes that were observed during 2019 were pulled out.



# 4 Updated Work Plan for Year Four

The following table provides works for 2019/2020. Information is provided where there is a change to the original work plan detailed in the Improvement Plan.

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Table 1: 2019/2020 Works

Prescription number	Works required	Year 4 Timing	Responsible for implementation
NWC6 Coppice around pond SW11 and newly created pond.	A continuation of works as detailed under the Surrey Wildlife Trust Management Plan	November 2019 – February 2020	Surrey Wildlife Trust (SWT)
SWC8 Create a new pond within the birch trees.	A new pond to be created in accordance with the design as permitted under the planning permission (Appendix 6).  Recommended pond is lined and seeded with GCN.	December 2019 – February 2020	ADAS
CWC2 Create a new pond to the north of Westfield Way.	A new pond to be created in accordance with the design as permitted under the planning permission (Appendix 7).  Pond previously planned for year 3 now in year 4  Pond to be lined and seeded with GCN.	December 2019 – February 2020	ADAS
Additional item (to be completed from 2018).	Prepare a plan for the restoration off Moor Lane, which is to replace the construction of a new pond CWC1. Once designed to be assigned for works in a future year of the work programme – to be added to year 5.	March – April 2020	ADAS
AWC4 Utilise oak onsite for access furniture and wildlife features	This part of the project does not directly impact on the great crested newt project and therefore is to be delivered as a separate project.	March – September 2020	Woking Borough Council (WBC) and SWT
MWC1 HSI assessments of all	Undertake an HSI assessment of the ponds on the common SW1 to SW13. Certain ponds are not under WBC ownership (SW1 and SW9). Confirmation of access to these ponds will be required from WBC. Works to be undertaken in accordance with SWT volunteers.	March – April 2020	ADAS, SWT and WBC





Prescription number	Works required	Year 4 Timing	Responsible for implementation
waterbodies within the Common.	Results compared with previous years.		
MWC2 Great crested newt breeding and occupied pond.	Population class estimates will be undertaken using mainly two separate visits using torch light surveys and egg searches only.  A limited bottle trapping exercise will be conducted, in part to obtain further data of ponds difficult to torch such as pond 12 and to train up volunteers to obtain a great newt licence or to be listed under the Woking Borough Council District Licence, so that future surveys can be conducted by local groups.	Mid-March — mid June 2020	ADAS and SWT
MWC6 Landscape model and decision making tool	To be continued into year 4.	October 2020	ADAS, WBC, NE, ARC and SARG
MGZ1 Great crested newt zones.	Make an assessment of the borough in relation to GCN to assess the ongoing strategy within Woking Borough. Work with stakeholders to assess loss against net contribution.	October 2020	WBC
MGZ2 Legal and future funding framework	Establish the legal framework and consider funding mechanisms to establish the programme of future connectivity work to areas of the Common not owned by WBC and beyond the boundaries of Westfield Common	April – October 2020	WBC
MGZ3 Liaison with other landowners of the Common.	Parts of the common are not owned by the WBC that include ponds SW1 and SW9. Continued liaison to establish potential working relationships for future works to be undertaken.	April – October 2020	WBC



Prescription number	Works required	Year 4 Timing	Responsible for implementation
Completion report for Year 4	Undertake a review of Year four and present a report to include the findings of all the survey work. This data to be used to update the Improvement Plan and to assess year four of the Work Plan.		ADAS



#### 5 References

ADAS (2016) Westfield Common Improvement Plan

ADAS (2018) Improvement Plan for Great Crested Newts Westfield Common 2<sup>nd</sup> Year Review

Natural England (2016 & 2018) Organisational Licence / District Level License to Woking Borough Council.

**Natural England (2017)** Favourable Conservation Status: England Contribution. Species: S1166 Great Crested Newt Triturus cristatus' v1.0.

**Surrey Wildlife Trust (2014)** Westfield Common Ecological Management Plan – there is a 2017 review document which can be found at

 $https://www.woking.gov.uk/leisure/greenspaces/countryside/greenprojects/westfieldcommonmanage\\ ment/westfieldcommonreview.$ 

**Woking Borough Council (2016)** Natural Woking Supporting Information – Appendix 10 - *Great Crested Newt*.

Woking Borough council (2016) Contractor maintenance species awareness guide



# Appendix 1: Photos taken during year three



Photograph 1. SWC7 in construction – Jan 2019.



Photograph 2. SWC7 in August 2019 showing good levels of establishment.



Photograph 3. SWC9 in Sept 2019.



Photograph 4. Part of Pond 3 being lined – Sep 2019.



Phtotograph 5. Pond 11 dried out completley this year.



Photograph 6. Volunteers participating in the 2019 GCN monitoring survey.

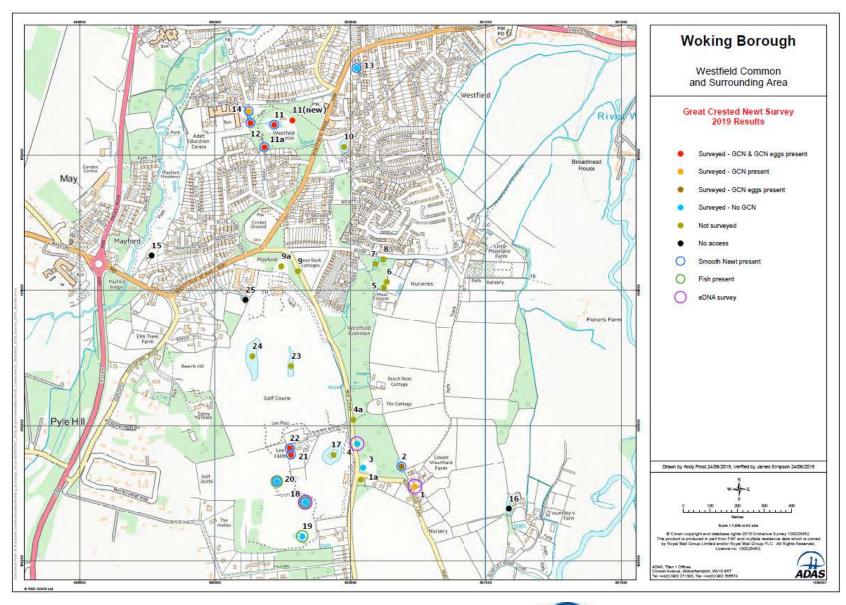


# Appendix 2: Plan of the Survey Results

See following page.



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# Appendix 3: HSI Survey Results 2017, 2018 & 2019

Habitat suitability Index (HSI) scores for ponds on Westfield Common

Pond	HSI Score 2016	HSI Score 2017	HSI Score 2018	HSI Score 2019	Pond suitability	Notes	GCN present in 2019
1	0.63	0.63	0.63	0.63	Average	Parrots feather present, located at the back of a garden	Yes
1a	-	-	0.51	0.51	Below Average	A small ornamental garden pond covered in duckweed. First recorded in 2018	No
2	0.43	0.72	0.82	0.85	Excellent	A large pond devoid of marginal vegetation	Yes
3	0.43	0.76	0.68	0.84	Excellent	A pond split in two and devoid of marginal vegetation. Section lined to hold water annually.	No
4	0.48	0.43	0.71	0.74	Good	A small pond next to the road – improved and lined. Macrophytes have developed around perimeter.	No
4a	0.54	0.54	0.54	0.54	Below Average	A small pond adjacent to track and road, float grass present	No
5	0.46	0.46	0.46	0.46	Poor	Dry	No
6	0.46	0.46	0.46	0.46	Poor	Dry	No
7	0.77	0.77	0.77	0.77	Good	Pond off Moor Lane, contains locally rare bladder sedge.  Was dry by August	No
8	0.53	0.53	0.53	0.53	Below average	Pond off Moor lane and connected to pond 7 Was dry by August	No
SWC7	-	-	-	0.73	Good	New pond 2019 – HSI taken in Aug 2019.	No
SWC9	-	-	-	0.73	Good	New pond 2019 – HSI taken in Aug 2019.	No
9	0.36	0.36	0.36	0.36	Poor	Dry	No
10	0.33	0.33	0.33	0.33	Poor	Fish, water fowl and crassula	No
11	0.85	0.85	0.85	0.85	Excellent	Large pond in centre of northern wood	Yes
11a	0.55	0.58	0.69	0.71	Good	A thin pond with float grass located at the back of houses.	Yes



						Dries annually	
12	0.55	0.73	0.8	0.83	Excellent	A pond understood to be clay lined. Good coverage of marginal vegetation.	Yes
13	0.70	0.70	0.70	0.70	Good	A pond in a residential area. Separated from other ponds by urban development.	No
14	0.41	0.41	0.41	0.51	Below average	Part of a ditch, float grass present. Works have been undertaken to remove overhanging vegetation.	Yes
NWC4 (11 new)	-	-	0.72	0.76	Good	New pond constructed 2018, macrophytes have now grown round the perimeter of the pond.	Yes
15	-	-	-	-	Unknown	Limited/no access	
16	-	-	-	-	Unknown	Limited/no access	
17	-	-	0.31	-	Poor	Golf course pond with fish	
18	-	-	0.85	0.55	Below average	Golf course pond – fish were recorded in the pond in 2019	No
19	-	-	0.44	0.44	Poor	Golf course pond impact by lack of macrophyte vegetation and fish	No
20	-	-	0.49	0.49	Poor	Golf course pond – impacted by fish	No
21	0.70	0.70	0.70	0.70	Good	Private land owner – lined pond	Yes
22	0.75	0.75	0.75	0.75	Good	Private land owner – lined pond	Yes
23	-	-	0.31	0.31	Poor	Golf course pond with fish	
24	-	-	0.31	0.31	Poor	Golf course pond with fish	
25	-	-	-	-	Unknown	No access	
Total no. of ponds 0.7 or over	5	8	10	13	Target = 15		
GCN positive	6	8	9	9	Target = 13		

Scores:

<0.5 = Poor; 0.5 - 0.59 = Below average; 0.6 - 0.69 = Average; 0.7 - 0.79 = Good; >0.8 = Excallent

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# Additional notes on the ponds across Westfield Common

Pond	Location	New/Existing/enhanced	Design	Permanent or ephemeral	Considered suitable for GCN
1	To the south of Robin Hood Lane on the Common but under private ownership.	Existing (no works planned)	-	Ephemeral	Yes
1a	A small pond to the south of Robin Hood lane in a private garden.	Existing (no works planned)	Garden pond probably lined	Permanent	No
2	In the south east corner of Westfield Common just off Robin Hood Lane.	Enhanced 2017 and 2018	Unlined	Permanent	Yes
3	At the junction between Robin Hood Lane and New Lane in the south of Westfield Common.	Enhanced (two ponds) 2017/18 – section lined 2019	One lined and on unlined	Lined pond permanent and unlined ephemeral	Yes
4	On the western edge of Westfield Common next to New Road	Enhanced but effectively a new pond 2018	Lined	Permanent	Yes
4a	Just off the driveway which runs from New Road to the Cottages	Enhanced 2017	Unlined	Ephemeral	Yes
5	Between Moor House and Moor Lane	Existing (no works planned)	Unlined	Ephemeral	No
6	Between Moor House and Moor Lane	Existing (no works planned)	Unlined	Ephemeral	No
7	To the south of Moor Lane and east of Rose Bank Cottages	Enhanced 2017 and 2019	Unlined	Permanent	Yes
8	To the south of Moor Lane and east of Rose Bank Cottages	Enhanced 2017	Unlined	Ephemeral	Yes
SWC7	Between Moor House and Rose Bank Cottages -	New pond 2019	Lined	Permanent	Yes
SWC9	To the south of Moor House and Rose Bank Cottages -	New pond 2019	Lined	Permanent	Yes
9	To the west of New Lane and South of Moor Lane	Existing (no works planned)	Unlined	Ephemeral	No
10	Just off Willow Bank in the north of Westfield Common	Existing	Unlined	Permanent	No

11	Centre of Bonsey Wood – in the Westfield Common	Enhanced 2017/2018	Unlined	Permanent (most years)	Yes
11a	South Bonsey Wood – in the Westfield Common	Enhanced 2017 and 2018	Unlined	Ephemeral	Yes
12	West Bonsey Wood – in the Westfield Common	Enhanced 2017	Understood to be lined	Permanent (most years)	Yes
13	Near to the Westfield doctors surgery.	Existing (no works planned)	Unknown	Permanent	Yes
14	Western edge of Bonsey Wood – in the Westfield Common	Enhanced 2019	Unlined (ditch)	Ephemeral	Yes
NWC4 (11 new)	To the east of pond 11 in Bonsey Wood – in the Westfield Common -	New pond 2018	Unlined	Permanent	Yes
15	No access (no information)	-	-		
16	No access (no information)	-	-		
17	Sutton Golf Course	Existing (no works planned)	Unknown	Permanent	No
18	Sutton Golf Course	Existing (no works planned)	Lined	Permanent	No
19	Sutton Golf Course	Existing (no works planned)	Lined	Permanent	No
20	Sutton Golf Course	Existing (no works planned)	Lined	Permanent	No
21	Residential garden in centre of Sutton golf course	Existing (no works planned)	Lined	Permanent	Yes
22	Residential garden in centre of Sutton golf course	Existing (no works planned)	Lined	Permanent	Yes
23	Sutton Golf Course	Existing (no works planned)	Lined	Permanent	No
24	Sutton Golf Course	Existing (no works planned)	Lined	Permanent	No
25	Behind the retirement home off Moor Lane (no access)	-	-		

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# Appendix 4: Newt survey results

GCN survey 17/18th April 2019

Weather: Clear skies no wind 18oc/pm and 8OC/am

Pond number	Great Crested Newt (torch)	Great crested newt (traps)	Great Crested Newt (eggs)	Smooth Newt (torch)	Smooth Newt (traps)	Other amphibians	No. of traps used
1	0	0	No	0	0	1 Common Toad	10
2	0	0	Yes	0	0	None seen Mallard and ducklings on pond	25
3	0	0	No	0	0	Tadpole in trap	25
4	0		No	0	N/a	1 Common frog	0
11	1 Male	11 Male 6 Female	Yes	84 Male and 9 Female	60 Male, 45 Female	Tadpoles	50
11 (new)	1 Male	2 Female	Yes	3 Male	2 Male, 4 female	1 Common frog	20
<b>11</b> a	1 Male	2 Male, 2 Female, 2 Juvenile	Yes	9 Male and 6 female	21 Male 7 Female`	1 Common frog	15
12	0	8 Male, 1 Female, 1 Juvenile	Yes	2 Male and 1 Female	2 Male and 6 Female	0	15
13	0	0	No	35 mixed sexes	0	0	0
14	0	0	No	1 Male	7 Male and 8 Female	2 Frogs	5
18	0	0	No	1 female		2 frogs, fish	0
19	0	0	No	0		Fish	0
20	0	0	No	0		Fish (carp)	0
21	7 Male, 1 Female		Yes	1 Male, 2 Female	0	0	0
22	14 Male, 5 Female	0	Yes	1 Male, 3 Female	0	1 Toad	0

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# GCN survey 20<sup>th</sup>/21<sup>st</sup> May 2019

Weather: Overcast, light breeze 17°c/pm and 8°C/am

Pond number	Great Crested Newt (torch)	Great crested newt (traps)	Great Crested Newt (eggs)	Smooth Newt (torch)	Smooth Newt (traps)	Other amphibians	No. of traps used	eDNA result
1			0					Positive (2 of 12)
2	0	0	-	1 male 1 female	0		25	
3	0	0	-	0	0	Tadpole in trap	25	
4	0		No	0	N/a		0	Negative ( 0 of 12)
11	2 Male 1 female	10 Male 9 Female	-	3 male 7 female	49 male 18 female	Tadpoles	50	
11 (new)	2 female	3 Male 1 female	-		8 male 5 female		25	
11a	0	1 male	-	4 female	3 male 1 female	3 Common frog	10	
12	1 male 1 female	1 male 3 female	-	1 female	8 male 7 female		15	
13	0	0	-	1 male 7 female	0	1 common frog	0	
14	0	2 female	-	0	0		5	
18								Negative (0 of 12)
21	1 Male 2 Female	0	-	1 Male 4 Female	0	0	0	
22	13 Male 12 Female	0	-	1 Male 1 Female	0	0	0	

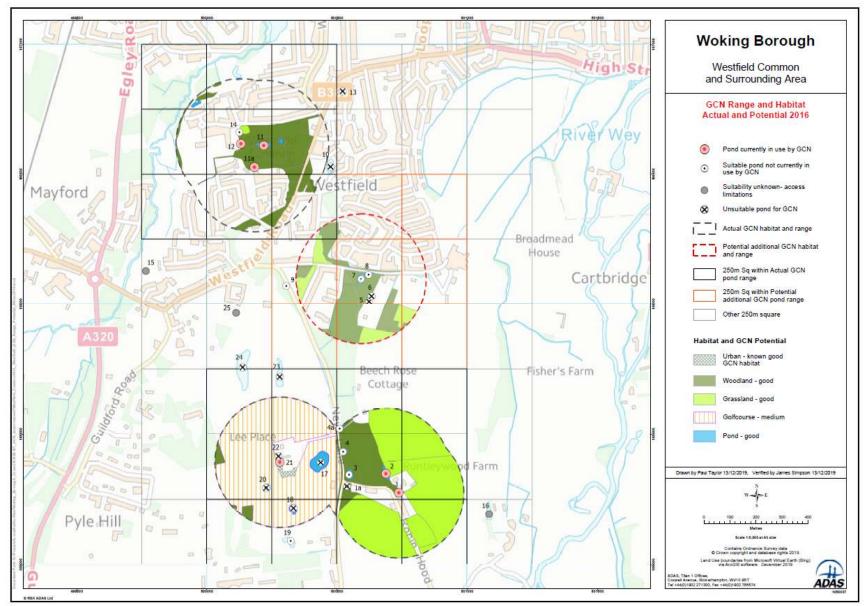
# Population result:

- 9 ponds recorded with GCN
- 2 ponds with a medium population 11 and 22
- 7 ponds with a low population 1, 2, 11a, 11 (new), 12, 14, 21

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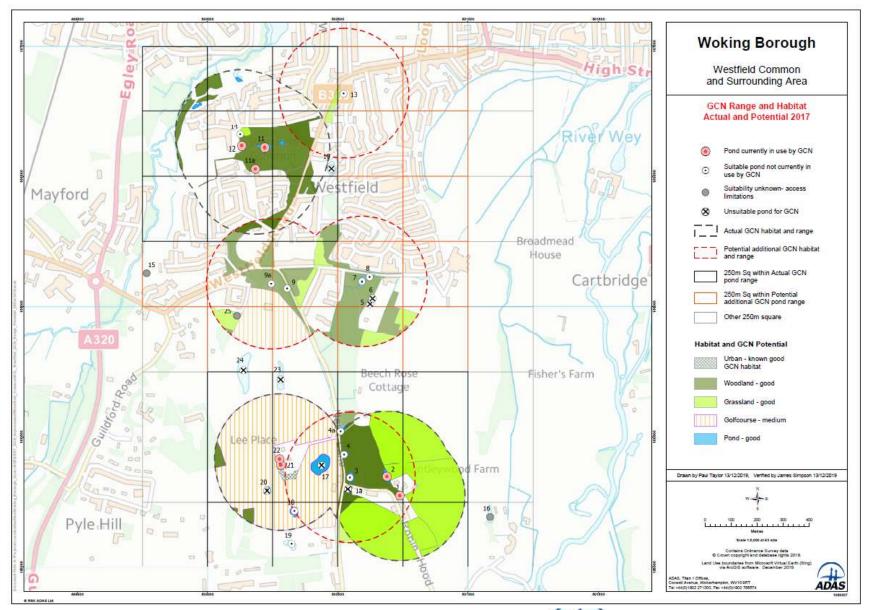
# Appendix 5: Plans showing Favourable Reference Values for 2016 to 2019

See following page





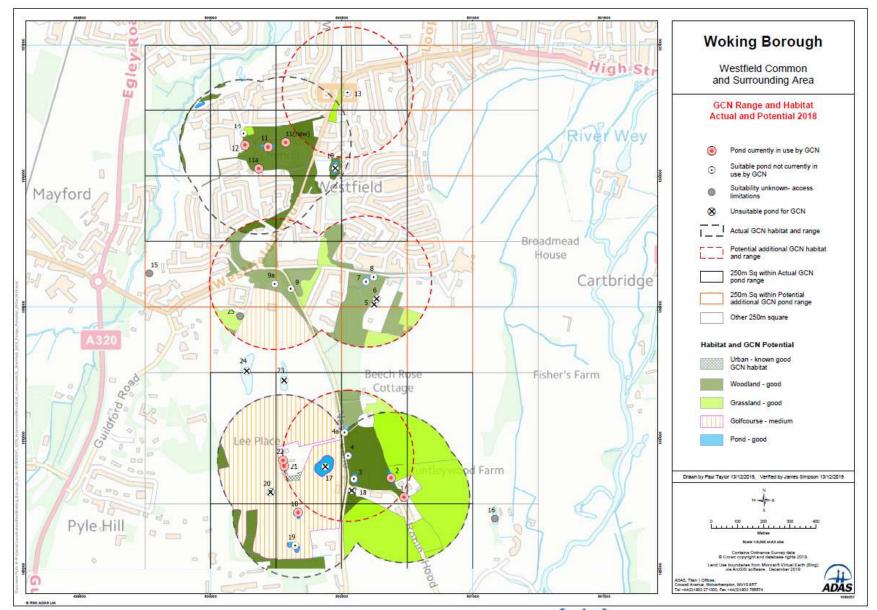








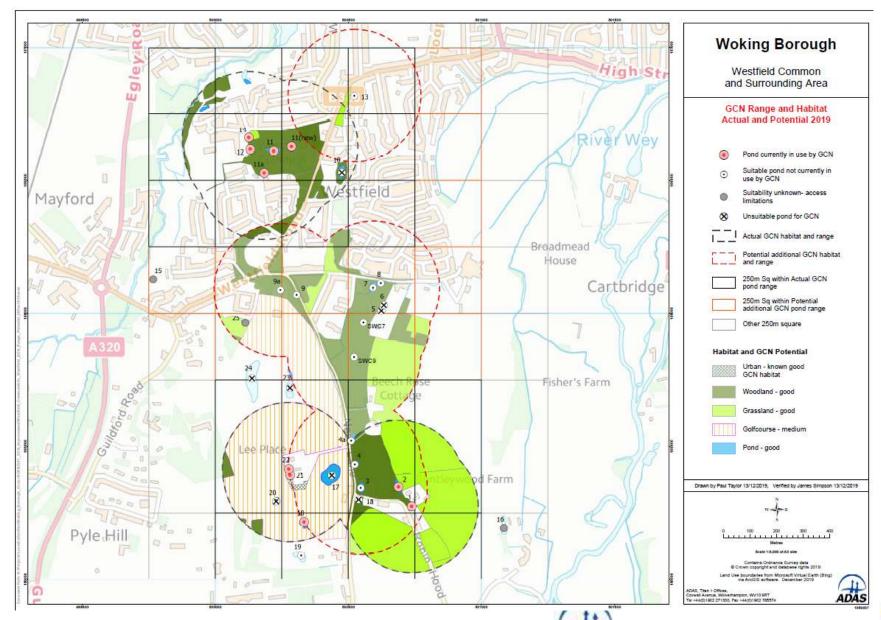
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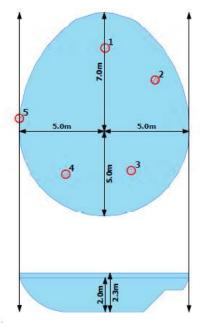
# Appendix 6: SWC8 Creation of New Pond

See following page



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#### Trees to be impacted by works Number Species DBH (m) RPA (m) Height (m) 3 Birch Birch 5 Birch



Site photograph pre commencment of works

- Approximate area of pond at full capacity is 94m²,
   Central grid reference 500513, 155662,

- All works to comply with felling licence 019/389/16-17 (expires 23 Nov 2021).
   A 'pointer poster' to be in-situ to highlight the issues relating to potential contamination.
   Erect a sign detailing the works for the general public.

- Dig a trial hole first to inspect for any contaminants (any found inform Woking's Scientific Officer)
   All patches of Glyceria fluitans to be set aside and replanted round the margin of the new pond.
- Excavated soils to be spread around the pond using natural fluctuations in the ground.
- All cut material to be stacked on top of spread material adjacent to pond.
   All machinery to be washed down before being taken off site.

Plant or transplant marginal aquatic plants to include Glyceria fluitans, Mentha aquatic, Iris pseudacorus, Myosotis scorpioides and Rorippa nasturtium-aquaticum.

# **Woking Borough** Westfield Common **SWC8 Pond Design** Pond to be created Trees Retain Remove Root protection zone Location Plan Scale 1:20.000 Drawn by Andy Frost 03/08/2017, Verified by James Simpson 03/08/2017 أسأسيأسيأسأ Scale 1:125 at A3 size © Crown copyright and delabase rights 2016 Ordrance Survey 100029452. This product is produced in part from PAF and multiple selfance data which is own by Royal Mail Group FLC. At Rights Reserved, License no. 100029452.



# Appendix 7: CWC2 Creation of New Pond

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