

	Politinet		KE	CORD	ING FC) KIVI (PAGE 1 01 4)			
	ur name (and the name of anyon to helped you take the sample)	ne			Da	ite				
	<u>uare</u> : 4 figure grid ref . SP1243 (see your map)		e.g. SP							
_	NA sample number			nd name (if known)						
	ase complete this eDNA GREAT ad in your 1km grid square. Loo									
to s		quite an easy survey to	t if Great Crested Newts are in a pond by collecting a water sample undertake, and you can learn the skills needed from our							
ME	THOD:									
•	Collect an eDNA kit from one of of the online video. Fill in the pond					urvey info	ormation and watch			
•	Collect a water sample from each pond habitat survey form. Don't f									
•	IMPORTANT: Record your name won't know which pond you've sa		nd grid refe	ence and t	he pond's r	name on	the kit box. We			
•	Give the kits back to your loca	l officer, or drop them	off at the ag	reed collec	tion point.					
•	Your eDNA samples will be couriered to France and analysed by SpyGen, who are international leaders in the field of eDNA testing, to see if Great Crested Newts were present in the pond. We'll email everyone's results back to them in September, and enter the findings on WaterNet for you.									
RE	CORDING YOUR RESULTS:									
•	If you see other amphibians at th	e pond whilst taking the	eDNA samp	le then you	can record t	heir prese	ence on this form.			
•	If you see other amphibians at the pond whilst taking the eDNA sample then you can record their presence on this form. Then, enter the kit number and the results of your pond habitat survey on to WaterNet – the data hub for the People, Ponds and Water project http://freshwaterhabitats.org.uk/projects/waternet . Alternatively, give this sheet and the pond habitat survey form to your local officer and we will enter the results for you. You can also take and upload photos to WaterNet (or email them to us) of your pond or the amphibians found there for									
	reference and confirmation purpo			40) OI your	pond or the	аттртпого				
	phibians seen at the pond happen to see amphibians while				rd them her	۵.				
,,,,,			, add numb				Tick			
		Adult	Immature	Tadpole/ or ef	larvae	Eggs/ spawn	Identification uncertain			
Gre	eat Crested Newt									
Co	mmon Frog									
Co	mmon Toad									
	mate Newt									
Sm	ooth Newt									
	n-native amphibian (list)									
No	tes (e.g. number of males and	females):								
For	range values choose one of the following	g options: 1, 2-5, 6-10, 1 2001+	1-20, 21-50,	51-100, 10	1-200, 201-5	500, 501-	1000, 1001-2000,			
if yo	u have experience (and a licence) you n lentify newt eggs can be damaging, so p	nay want to record presence blease minimise the number	of Great Creste looked at - reco	ed Newt or oth rd presence (ner newt eggs not abundance	that you fine) of newt e	ıd. Unwrapping leaves eggs.			
	erminer name (optional - if				al (<u>optional</u>					
	neone confirms the identity he species you've recorded)	comment if you've taken a photo to confirm identification)								

















Record any issues with the eDNA sample collection here:



eDNA GREAT CRESTED NEWT SURVEY RECORDING FORM (PAGE 2 of 4)

Please complete a POND HABITAT SURVEY sheet at <u>each pond</u> surveyed.

This is a really important part of the survey at your pond. The variables will be used to calculate a Habitat Suitability Index for Great Crested Newts. Critical HSI metrics are indicated by a shaded box – we cannot calculate an HSI score for the pond unless these have been submitted. Other metrics will give us a full picture of pond quality.

Go to: www.freshwaterhabitats.org.uk/projects/pondnet/survey-options/habitats for survey guides and more information.

The second secon												
Is the pond yes, no, unk	•	han 10 yrs old)		a	Year o t ate, decade	f creatior e, unknow			Pond Altitude (m			
Note: This is the <i>surface</i> area of the pond when the <u>water</u> is at its highest level (usually in early spring). It will 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 maps.												
1 = Never dries, 2 = Rarely dries: no more than two years in any ten year period, or onled drought, 3 = Sometimes dries: dries between three years in ten to most years, 4 = Dries annually. Deduce pond permanence from local knowledge (e.g. landowner) are personal judgement e.g. water level at the time of the survey. Ponds that dry out annually usually have a hard base.									ner) and			
	% of pond ov	erhung by trees	and shrubs di					This is an estimate of how much of the pond is <i>directly</i> overhung by trees and shrubs, i.e. that would be shaded if the sun was overhead (use the diagram (below) as a guide).				
	mpact 1 = major 2 = minor 3 = none	have patches impact on por	= severe impact of waterfowl e.g. few or no submerged plants, water turbid, pond bank atches where vegetation removed, feed put down; Minor = waterfowl present, but little on pond vegetation, pond still supports submerged plants and banks are not denuded tation; None = no evidence of waterfowl impact (moorhens may be present).							t, but little denuded		
Fish presence 1 = major 2 = minor 3 = possible 4 = absent Major = dense populations of fish known to be present; Minor = small numbers of Crucian Carp, goldfish or stickleback known to be present; Possible = no evidence of fish, but local conditions suggest that they may be present; Absent = no records of fish stocking and no fish stocking and no fish known to be present; Possible = no evidence of fish stocking and no fish known to be present; Possible = no evidence of fish known								out local				
Disturbance by dogs 1 = major 2 = minor 3 = none Major = dogs repeatedly use the pond, compacted edges with little vegetation, water v turbid; Minor = dogs use the pond, but little impact on pond vegetation, pond still supp submerged plants and banks are not denuded of vegetation; None = no evidence that are using the pond.							ipports					
Aquatic vegetation: includes emergent, floating and submerged plants % of the whole pond (wet and dry) occupied by emergent vegetation – incl. plants like grasses, water mint and rushes, but not floating (e.g. pondweed) % or submerged (e.g. water-crowfoot) species.												
% of pond <u>water surface area</u> covered by all vegetation (<u>emergent, floating</u> (excl. duckweed) and submerged).												
cm	% of water a level. This ca Drawdown. 1	n be 0% if the ponts. The height drop f	maximum water be 0% if the pond has dried out. The height drop from the maximum water level to current level (see diagram). Maximum water level (see diagram).					rater level	(hei	wdown height ght difference veen maximum 8 ent water level)		
Grazing	Tick if there i	s evidence the p	ond is graz	zed by	livestock.	lf yes , co	mplete	the follo	wing boxes:			
% of whole pond grazed (note: stock can wade into shallow ponds to graze).												
										• ,		
Grazing intensity: rank 1-5 (1=infrequent or low intensity to 5 = margins heavily poached and almost bare).												
Pond management (tick): use tick boxes to list management within the Fully dredged Partly dredged >5% vegetati									er' box for any extr <5% vegetation rem			
	planted	Trees clea	_		Trees cut b				ond changed shap			
Plants introduced		Bank plan			Structural w				Straw added			
Add other or		·										



eDNA GREAT CRESTED NEWT SURVEY RECORDING FORM (PAGE 3 of 4)

Water quality:													
Turbidity / water clarity: Estimate turbidity looking down into c.20cm depth of water in the pond.													
1 = clear; 2 = moderately clear; 3 = moderately turbid; 4 = turbid													
Inflows and outflows: (tick if inflow or outflow present or leave blank)													
Inflow present Outflow present													
Water chemistry: If suitable kits and meters are available (or leave blank)													
рН		Conductivity (µS cm-1)											
Nitrate (NO ³ -N ppm): PPV	-	Phosphate (PO ₄ ³ P ppm): PPW kits provided by FHT											
(tick one from the following range categorous cases) care consistency cases (1.2 one from the following range categorous cases) cases (1.2 one from the following range categorous cases) cases (1.2 one from the following range categorous cases) cases (1.2 one from the following range categorous cases) cases (1.2 one from the following range categorous cases) cases (1.2 one from the following range categorous categor			ries) 5-10	10 +	•	(tick one from the following range categories) <0.02 0.02-0.05 0.05-0.1 0.1-0.2 0.2-0.5 0.5-1 1+							
<0.2 0.2-0.3 0.3-1	1-2	2-3	3-10	10 +	<0.02 0.	.02-0.03	0.05-0.1	0.1-0.2	0.2-0.5	0.5-1	1+		
Pand base:													
This refers to the <i>geology</i> (i.e the base or banks of the pond	Pond base : This refers to the <i>geology</i> (i.e. rock-type) that immediately underlies the pond. You may know, or be able to see the underlying geology in the base or banks of the pond, especially in new ponds. If not, check a geology map or leave this section blank. Choose one of the following to categorise the % composition of each of pond base: 1= 0-32%, 2= 33-66%, 3= 67-100%												
Silt/ clay	Sand	l, gravel,	cobbles		Hard rock		Peat	C	Other (plea	ase speci	fy)		
Surrounding land use: Estimate the <u>percentage</u> of surrounding land-use in distance zones from the pond perimeter (i.e. the maximum winter water level) used to assess pond area. In many ponds the 0-5m zone will include surrounding trees/scrub.													
Habitat	0-5m	0-100m				E	xamples						
Trees, woodland & scrub %			Deciduous and coniferous woodland, individual trees, scrub and hedgerows.										
Heath & moorland			Lowland and upland heathland, moorland and mountain; includes bracken.										
Rank vegetation			Unmanaged grass, neglected and abandoned land, set-aside, verges and buffer strips.										
Unimproved grassland			Herb-rich, calcareous and acid grassland (good quality plant indicators usually present). Low percentage of agricultural grasses. Not fertilised, little or no drainage.										
Semi-improved grassland			A transition category. Grasslands modified by fertilisers, drainage, herbicides or intensive grazing, but retaining elements of natural grassland types in the area.										
Improved grassland			Fertile agricultural grass, often bright green and lush; including parks and golf greens.										
Arable			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. ma				.g. maritime vegetation, saltmarsh, sand-dune, orchards and railways.									
Is the pond in (choose one opti	-		, -	nature r	eserve, SSSI,	, etc.)							
Invasive non-native species: Record any non-native invasive species you know to be present in the pond, or leave blank if you are unsure. Visit https://freshwaterhabitats.org.uk/projects/pondnet/survey-options for tips on identification (please tick all that apply).									ou are				
New Zealand Pigm Crassula helmsii	yweed		Floating Hydroco		wort nunculoides					lea canad	densis,		
Parrot's Feather Myriophyllum aquaticum			Water F Azolla fi		les	Nuttall's Pondweed <i>Elodea nu</i> Curly Waterweed <i>Lagarosipho</i>			•	jor			



eDNA GREAT CRESTED NEWT SURVEY

RECORDING FORM (PAGE 4 of 4)

Location	score for Great Crested Newts (selec	ct pond location based on map to right)	es Em
	A (optimal), B (marginal) or C (unsuital	ole)	
	of ponds: Note: ponds are <2ha in size os map, Google maps, or other mapping	- to help you calculate the total use the PondNet g tool):	B CO B
	Number of <i>other</i> ponds (exclude the survey centre. Omit ponds separated by amphibia	y pond) in a 1km radius circle centred on the pond n barriers e.g. large rivers or roads.	
	If there are more than 12 ponds present in	the 1km radius, you can just tick this box.	97/200
Habitat qı	None = clearly no suitable habitat within ir opportunities for foraging and shelter (e.g.	otion - 1 = none, 2 = poor, 3 = moderate, 4 = good nmediate pond locale; Poor = habitat with poor structure amenity grassland); Moderate = offers opportunities for habitat that offers good opportunities for foraging and she land.	that offers limited foraging and shelter, but
Water qua	Bad = clearly polluted, only pollution-tolera	ion - 1 = bad, 2 = poor, 3 = moderate, 4 = good) ant invertebrates, no submerged plants; Poor = low inverinvertebrate diversity; Good = abundant and diverse inverses a grassland, heath, woodland.	
	h of pond perimeter could be? Note areas of the pond which were sible.		
	ts box: e.g. new ownership, changes vious visit, any other information pond.		
emergen		pond, marking on variables such as amount of shaculate percentage cover and provide a record of the	
	also take a photo of your pond or your m shwaterhabitats.org.uk/projects/wat	naps (or scan them if you have a scanner) and upload ernet.	them with the record
			heritage lottery fund