



## Wylfa Newydd Project

6.4.55 ES Volume D - WNDA Development  
App D9-22 - Great Crested Newt Technical  
Summary Report 2017

PINS Reference Number: EN010007

Application Reference Number: 6.4.55

June 2018

Revision 1.0

Regulation Number: 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

[This page is intentionally blank]

## Great Crested Newt survey at ponds



Project Title: **Wylfa Newydd: Early Works and Site Preparation & Clearance Works**  
 Document Number: **WNSPC-JBB-ECOL-PJW-GEN-REP-002**  
 Customer: **Horizon Nuclear Power Wylfa Ltd**  
 Purpose of Issue: **Issued for comment**  
 Date of Issue: **05 July 2017**

Document No: WNSPC-JBB-ECOL-PJW-GEN-REP-002	Issue No: 01	Issue Date: 05 - 07 - 2017	Page: 1 of 8
Project Lead:	Reviewed by:	Next Review Date:	

<b>Project Name:</b>	Wylfa Newydd: Early Works and Site Preparation & Clearance Works	<b>Project No:</b>	
----------------------	--	--------------------	--

<b>Project Lead:</b>	Jeremy Sturla, Project Manager
<b>Environmental Lead:</b>	Steve Blunt, Environmental Manager
<b>Site Lead:</b>	Emlyn Roberts, Site Manager

Issue Record			
Rev	Purpose	Date	By
-	Issue for Comment	05.07.2017	SMB

Document Authorisation:			
Date:		Revision No:	

This Report is approved for issue by the Project Lead and access to the CONTROLLED Information is via Business Collaborator electronically. A controlled hard copy is filed and maintained at the Document Control project office. The persons listed below will be issued, a controlled copy of the Information Management Plan via BC.

Issued To (Electronic Copies)	Revision	Date

Document No: WNSPC-JBB-ECOL-PJW-GEN-REP-002	Issue No: 01	Issue Date: 05 - 07 - 2017	Page: 2 of 8
Project Lead:	Reviewed by:	Next Review Date:	

## 1 Introduction

## 2 Findings from population survey

## 3 Correlation with eDNA testing

## 4 Conclusions

## Appendices

Document No: WNSPC-JBB-ECOL-PJW-GEN-REP-002	Issue No: 01	Issue Date: 05 - 07 - 2017	Page: 3 of 8
Project Lead:	Reviewed by:	Next Review Date:	

## 1 Introduction

### 1.1 Description and Sequence of Work

Jones Brothers Balfour Beatty JV (JB) are providing support services to Horizon Nuclear Power (HNP) under a Professional Services Agreement, including a programme of survey works for Great Crested Newts, to establish their presence or absence in specific areas of the proposed Site Preparation and Clearance worksite.

'The Work' is a programme of professional services including surveys to determine the presence or absence of Great Crested Newt in any or all of 47 ponds identified within the site boundary. Reporting on this work to the Customer and Regulator. Preparation of an application for a European Protected Species licence if Great Crested Newts are found at any of the ponds.

On written instruction from HNP, the services commenced with the presentation of proposed survey strategy to Natural Resources Wales in a meeting, and formal recording of acceptance of the strategy.

The planned survey consisted of three stages:

1. Daylight walkover visit by Ecologist and assistant to inspect all 47 ponds to plan the survey work, in early April 2017
2. A) Conduct eDNA sampling and testing at all 47 ponds plus one check pond in April 2017, and report findings. Assess the Habitat Suitability Index at each pond by field recording features on standard record sheet and transferring data to calculation spreadsheet in the office.  
  
B) Conduct population survey at ponds 37 and one check pond, by bottle trapping / torch search / egg search commencing April 2017, and report findings.
3. If any ponds have positive laboratory result for GCN DNA, and it is deemed necessary, then conduct population survey at those ponds, by bottle trapping / torch search / egg search commencing late April 2017, and report findings.

The report reference WNSPC-JBB-ECOL-PJW-GEN-REP-001 dated 21/06/2017 reported the findings of stage 1 and stage 2A. The eDNA sampling and testing proved negative at all ponds sampled, and so stage 3 was suspended as not necessary.

This document records stage 2B – the population survey at pond 37 and two nearby ponds.

### 1.2 Method

The work was conducted in accordance with a specific Task Briefing Sheet forming part of Work Package Plan WNSPC-WPP-STG[-1]/ECOL/001 rev02:

Document No: WNSPC-JBB-ECOL-PJW-GEN-REP-002	Issue No: 01	Issue Date: 05 - 07 - 2017	Page: 4 of 8
Project Lead:	Reviewed by:	Next Review Date:	

TBS Reference	Title
WNSPC-TBS-STG[-1]-ECOL-002	GCN Population Survey

Reporting this work follows Inspection & Test Plan No WNSPC-ITP-STG[-1]-ECOL-001.

### 1.3 Background

Survey work previously conducted for HNP had found one positive eDNA result for Great Crested Newt at pond 37, despite previous negative survey results and the absence of positive results from nearby locations. It was therefore agreed that 'traditional' surveying for GCN would be conducted at pond 37 and two nearby ponds regardless of the results of eDNA testing: a) to provide additional evidence to support (or possibly contradict) the finding from eDNA testing, and b) to avoid delay waiting for eDNA test results and thereby ensure that should it be necessary, a full population survey suite of six visits could be completed in the available season.

### 1.4 Locations

Pond 37 is located near the Lodge, to the south of the Magnox road, as shown in Figure 1. Ponds 18 and 28 are within a 500m radius of pond 37 and not separated by any physical barrier to GCN movement. Consequently a mobile sub-population of GCN might possibly use any one of these ponds in a particular season.

There are two small ponds at location 28, referred to as 28a and 28b in the Pond Condition survey report. The daylight walkover showed that Pond 28a was suitable only for egg searching, due to dense aquatic vegetation and marginal/overhanging vegetation. In the event it proved to be too overgrown for egg searching and was therefore excluded from subsequent visits. Pond 28b is a very small, shallow artificial garden pond at which only torch survey and egg search was practical.

Document No: WNSPC-JBB-ECOL-PJW-GEN-REP-002	Issue No: 01	Issue Date: 05 - 07 - 2017	Page: 5 of 8
Project Lead:	Reviewed by:	Next Review Date:	

## 2 Findings from population survey

Six survey visits were conducted, on the dates shown in the table. The survey methods used at each pond are also tabulated.

No Great Crested Newts were found at any of the ponds surveyed, on any of the six visits. Individual smooth newt or palmate newt were found on some visits, as indicated in the table.

### Wylfa Newydd Great Crested Newt Survey Results Summary

Waterbody number	Survey Method(s)	2017 Survey Dates					
		24 <sup>th</sup> April	2 <sup>nd</sup> May	8 <sup>th</sup> May	22 <sup>nd</sup> May	8 <sup>th</sup> June	14 <sup>th</sup> June
Pond 18 (Shallow pond on field edge)	Torching	NO GCN 1 ♀ 2 ♂PN	None	NO GCN 1 ♀PN, 1 eft	None	None	None
	Egg search	None	None	None	None	None	None
	Bottle Trapping	None	NO GCN 1 ♀PN	NO GCN 1 ♀SN, 1 ♂PN	NO GCN 1 ♀PN	None	None
Pond 28a (Overgrown garden pond)	Torching	Pond included on the first survey, but found to be overgrown by vegetation and inaccessible for survey					
	Egg search						
	Bottle Trapping						
Pond 28b (Tiny garden pond)	Torching	NO GCN 1 ♀PN	None	None	None	None	None
	Egg search	None	None	None	None	None	None
	Bottle Trapping	Pond too shallow to bottle trap					
Pond 37 (Pond in centre of field)	Torching	None	NO GCN 1 ♀ 1 ♂PN	None	None	None	None
	Egg search	None	None	None	None	None	None
	Bottle Trapping	None	None	NO GCN 1 ♀PN	None	None	None

### KEY

GCN - Great crested newt; SN - Smooth newt; PN – Palmate newt; S/PN – Smooth or Palmate newt (undetermined); Juv – Juvenile; eft – eft; ♀ - female; ♂ - male

Document No: WNSPC-JBB-ECOL-PJW-GEN-REP-002	Issue No: 01	Issue Date: 05 - 07 - 2017	Page: 6 of 8
Project Lead:	Reviewed by:	Next Review Date:	



### 3 Correlation with eDNA testing

The surveys support the finding of the eDNA tests from these ponds which were also negative.

The surveys also lend support to the reliability of negative eDNA tests at other ponds within the site which were sampled as reported in report reference WNSPC-JBB-ECOL-PJW-GEN-REP-001 dated 21/06/2017.

It had been intended to conduct eDNA testing at another pond, outside the Wylfa site, known to contain GCN as a means of validation for the eDNA procedures used within the Wylfa survey. In the event no such pond was found to be available for sampling. The same survey team were able to use eDNA test kits from the same source, and the same laboratory, to test ponds on another project in North Wales (being conducted by RML on behalf of Welsh Government). Positive results were obtained from a number of these ponds, and these results were borne out by population surveys using torch and other methods.

### 4 Conclusions

This survey demonstrates that ponds 37, 18 and 28 are not in use by Great Crested Newt and so it is not necessary to seek a licence under the Habitat Regulations before carrying out works at or in the vicinity of these ponds.

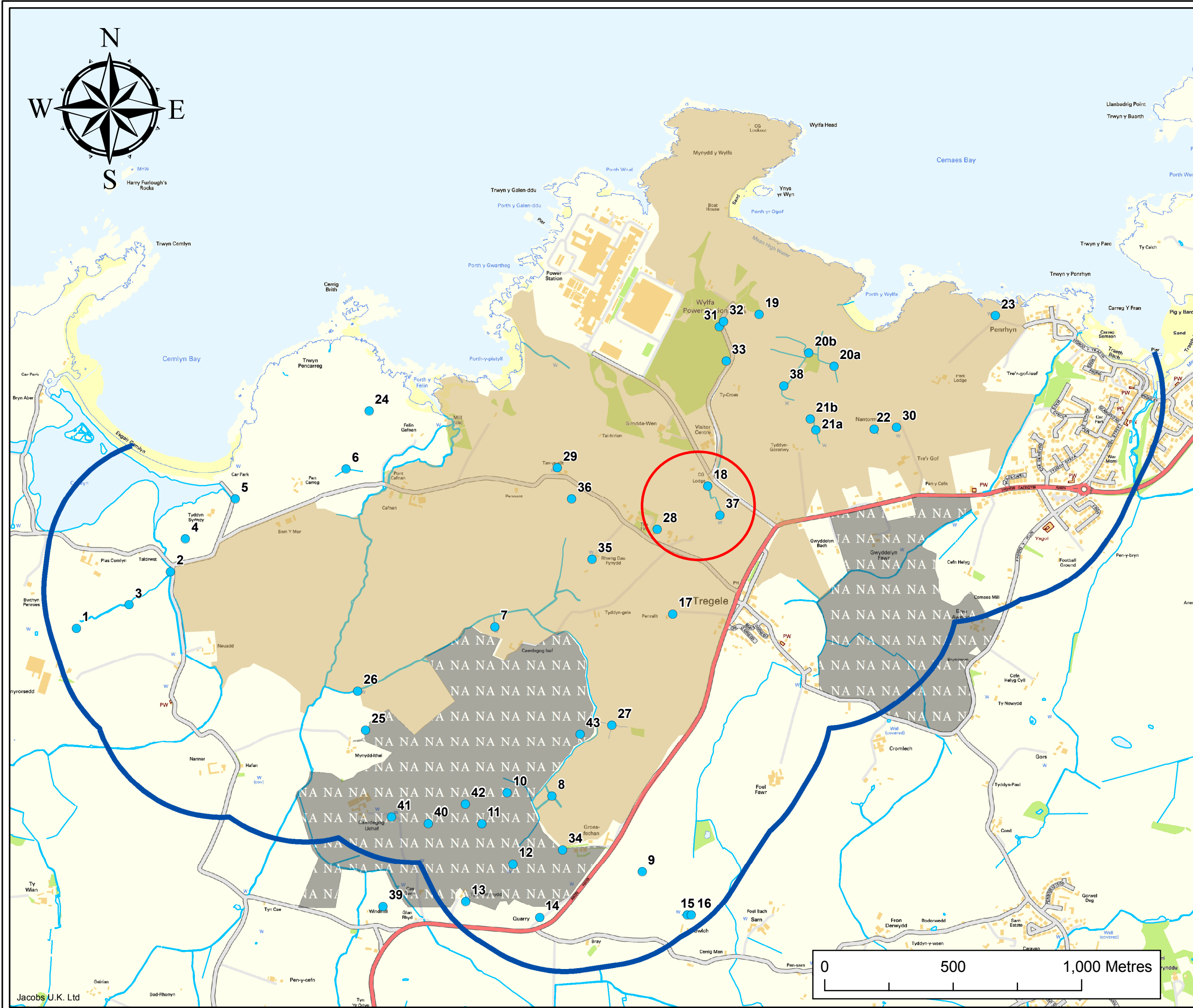
Document No: WNSPC-JBB-ECOL-PJW-GEN-REP-002	Issue No: 01	Issue Date: 05 - 07 - 2017	Page: 7 of 8
Project Lead:	Reviewed by:	Next Review Date:	

## Appendices

Figure 1 Location of ponds surveyed

Field record sheets

Document No: WNSPC-JBB-ECOL-PJW-GEN-REP-002	Issue No: 01	Issue Date: 05 - 07 - 2017	Page: 8 of 8
Project Lead:	Reviewed by:	Next Review Date:	



**Legend**

- Pond
- Study Area Boundary
- Wylfa Newydd Development Area
- No Access
- Watercourses
- Ponds surveyed in 2017

**JACOBS**

1st Floor, Kenneth Dibben House, Enterprise Road  
Southampton Science Park, Southampton, SO16 7NS, UK  
Tel: +44(0)2380111250 Fax: +44(0)2380111251  
<http://www.jacobs.com>

Client

**HORIZON**  
NUCLEAR POWER

Project Wylfa Newydd

Drawing title Pond Locations

Drawn by	Check'd by	Rev'd by	Appr'd by	Date 07/07/14	Rev. 02
----------	------------	----------	-----------	---------------	---------

BS	JJ	AH	RB	Ref. no. 14_053
----	----	----	----	-----------------

Scale @ A3	1:14,000	DO NOT SCALE
------------	----------	--------------

Figure 2	Status Final	Project no. 60PO8007
----------	--------------	----------------------

This drawing is not to be used in whole or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.

This map contains Ordnance Survey data. © Crown Copyright and database right 2014. OS OpenData is covered by Crown Copyright, Crown Database Right, or has been licensed to the Crown.

Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.



# Atmos Consulting Ltd Amphibian Survey Form

Project Code

Site Name

Wylfa (VI)

Observer(s)

JG LS

GCN Licence

JG LS

Pond No.

18

Cluster

Grid Reference (2 letters and 10 figures)

Start Date

24/04/2017

Start Time

Finish Time

H H : M M

H H : M M

No. of Bottles

10

Pond Condition  
% Surveyed

100

Turbidity (tick one)

☐ Completely clear  
☐ Slightly turbid  
☒ Moderately turbid  
☐ Turbid  
☐ Mainly turbid  
☐ Very turbid

Vegetation Cover (tick one)

☐ None  
☐ Slight cover  
☒ Moderate cover  
☐ Half covered  
☐ Mainly covered  
☐ Completely obscured

Water Temp. (°C)

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

Weather

Cloud Cover (circle one)

0 1 2 3 4 5 6 7 8

Wind Direction (e.g. NNW)

W

Wind Speed (Beaufort 0 -12)

1

Precipitation (tick one)

☒ None  
☐ Light Intermittent  
☐ Light Persistent  
☐ Heavy Intermittent  
☐ Heavy Persistent

Minimum Temp. (°C)

7

Maximum Temp. (°C)

7

Surveys Conducted (tick all that apply even if nothing was found)

☒ Torching  
☒ Bottling  
☐ Netting  
☐ Refuges  
☒ Egg searches

Additional Species Present (e.g. fish)





## TORCHING<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead
						1	2																

BOTTLING<sup>1</sup> NONE

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

NETTED<sup>1</sup>

Great-crested					Palmate					Smooth					Unidentified Newt				
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead			

REFUGE<sup>1</sup>

Great-crested				Palmate				Smooth				Unidentified Newt				
Female	Male	UK <sup>2</sup>	Juv	Female	Male	UK <sup>2</sup>	Juv	Female	Male	UK <sup>2</sup>	Juv	Female	Male	UK <sup>2</sup>	Juv	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated) NONE

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt



Atmos Consulting Ltd  
Amphibian Survey Form

Project Code

Site Name Wylfa (VI)

Observer(s) JG LS

GCN Licence JG LS

Pond No. P286 Cluster

Grid Reference (2 letters and 10 figures)

Start Date 24042017

Start Time D D / M M / Y Y Y Y

Finish Time H H : M M

H H : M M

H H : M M

No. of Bottles

Pond Condition 100

% Surveyed

Turbidity (tick one)

☐ Completely clear

☒ Slightly turbid

☐ Moderately turbid

☐ Turbid

☐ Mainly turbid

☐ Very turbid

Vegetation Cover (tick one)

☐ None

☒ Slight cover

☐ Moderate cover

☐ Half covered

☐ Mainly covered

☐ Completely obscured

Water Temp. (°C)

Weather

Cloud Cover (circle one)

0 1 2 3 4 5 6 7 8

Wind Direction (e.g. NNW) W

Wind Speed (Beaufort 0 -12) 1

Precipitation (tick one)

☒ None

☐ Light Intermittent

☐ Light Persistent

☐ Heavy Intermittent

☐ Heavy Persistent

Minimum Temp. (°C) 7

Maximum Temp. (°C) 7

Surveys Conducted (tick all that apply even if nothing was found)

☒ Torching

☐ Bottling

☐ Netting

☐ Refuges

☒ Egg searches

Additional Species Present (e.g. fish)

Common frog	Female(s)	Male(s)	Unknown	Egg-clumps
Common toad				
Natterjack toad				





# Atmos Consulting Ltd Amphibian Survey Form

## TORCHING<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead
						1																	

## BOTTLING<sup>1</sup> N/A

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

## NETTED<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

## REFUGE<sup>1</sup>

Great-crested				Palmate				Smooth				Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	

## EGG SEARCHES (individual egg(s) unless otherwise stated)

NONE

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt



Atmos Consulting Ltd  
Amphibian Survey Form

Project Code

Site Name

Wylfa VI

Observer(s)

JG LS

GCN Licence

JG LS

Pond No.

937

Cluster

Grid Reference (2 letters and 10 figures)

Start Date

24042017

Start Time

D D / M M / Y Y Y Y

Finish Time

H H : M M

H H : M M

No. of Bottles

10

Pond Condition

% Surveyed

75

Turbidity (tick one)

<input type="checkbox"/>	Completely clear
<input type="checkbox"/>	Slightly turbid
<input checked="" type="checkbox"/>	Moderately turbid
<input type="checkbox"/>	Turbid
<input type="checkbox"/>	Mainly turbid
<input type="checkbox"/>	Very turbid

Vegetation Cover (tick one)

<input type="checkbox"/>	None
<input type="checkbox"/>	Slight cover
<input type="checkbox"/>	Moderate cover
<input checked="" type="checkbox"/>	Half covered
<input type="checkbox"/>	Mainly covered
<input type="checkbox"/>	Completely obscured

Water Temp. (°C)

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

Weather

Cloud Cover (circle one)

0 1 2 3 4 5 6 7 8

Wind Direction (e.g. NNW)

W

Wind Speed (Beaufort 0 -12)

1

Precipitation (tick one)

<input checked="" type="checkbox"/>	None
<input type="checkbox"/>	Light Intermittent
<input type="checkbox"/>	Light Persistent
<input type="checkbox"/>	Heavy Intermittent
<input type="checkbox"/>	Heavy Persistent

Minimum Temp. (°C)

7

Maximum Temp. (°C)

7

Surveys Conducted (tick all that apply even if nothing was found)

<input type="checkbox"/>	Torching
<input type="checkbox"/>	Bottling
<input type="checkbox"/>	Netting
<input type="checkbox"/>	Refuges
<input type="checkbox"/>	Egg searches

Additional Species Present (e.g. fish)





# Atmos Consulting Ltd Amphibian Survey Form

**TORCHING**<sup>1</sup> *NONE*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**BOTTLING**<sup>1</sup> *NONE*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**NETTED**<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**REFUGE**<sup>1</sup>

Great-crested				Palmate				Smooth				Unidentified Newt				
Female	Male	UK <sup>2</sup>	Juv	Female	Male	UK <sup>2</sup>	Juv	Female	Male	UK <sup>2</sup>	Juv	Female	Male	UK <sup>2</sup>	Juv	Dead

**EGG SEARCHES** (individual egg(s) unless otherwise stated) *NONE*

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt



# Atmos Consulting Ltd Amphibian Survey Form

Project Code

Site Name Wylfa (V2)

Observer(s) LS AH

GCN Licence LS AH

Pond No. 918 Cluster

Grid Reference (2 letters and 10 figures)

--	--	--	--	--	--	--	--	--	--	--	--

Start Date 02052017

D D / M M / Y Y Y Y

Start Time

H H : M M

Finish Time

H H : M M

No. of Bottles

Pond Condition 100

% Surveyed

Turbidity (tick one)

<input type="checkbox"/>	Completely clear
<input checked="" type="checkbox"/>	Slightly turbid
<input type="checkbox"/>	Moderately turbid
<input type="checkbox"/>	Turbid
<input type="checkbox"/>	Mainly turbid
<input type="checkbox"/>	Very turbid

Vegetation Cover (tick one)

<input type="checkbox"/>	None
<input type="checkbox"/>	Slight cover
<input type="checkbox"/>	Moderate cover
<input checked="" type="checkbox"/>	Half covered
<input type="checkbox"/>	Mainly covered
<input type="checkbox"/>	Completely obscured

Water Temp. (°C)

## Weather

Cloud Cover (circle one)

0 1 2 3 4 5 6 7 8

Wind Direction (e.g. NNW) SW

Wind Speed (Beaufort 0 -12) 0

Precipitation (tick one)

<input checked="" type="checkbox"/>	None
<input type="checkbox"/>	Light Intermittent
<input type="checkbox"/>	Light Persistent
<input type="checkbox"/>	Heavy Intermittent
<input type="checkbox"/>	Heavy Persistent

Minimum Temp. (°C)

Maximum Temp. (°C)

Surveys Conducted (tick all that apply even if nothing was found)

<input checked="" type="checkbox"/>	Torching
<input checked="" type="checkbox"/>	Bottling
<input type="checkbox"/>	Netting
<input type="checkbox"/>	Refuges
<input checked="" type="checkbox"/>	Egg searches

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

Additional Species Present (e.g. fish)

--





TORCHING<sup>1</sup> NONE

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead
						1																	

BOTTLING<sup>1</sup>

Great-crested					Palmate					Smooth					Unidentified Newt				
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead		

NETTED<sup>1</sup>

Great-crested					Palmate					Smooth					Unidentified Newt				
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead		

REFUGE<sup>1</sup>

Great-crested				Palmate				Smooth				Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	

EGG SEARCHES (individual egg(s) unless otherwise stated) NONE

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt



Atmos Consulting Ltd  
Amphibian Survey Form

Project Code   
Site Name Wijlfa V2  
Observer(s) LS AH  
GCN Licence LS AH  
Pond No. P28b Cluster

Grid Reference (2 letters and 10 figures)

Start Date 09052017  
D D / M M / Y Y Y Y

Start Time  :  M

Finish Time  :  M

H H : M M

No. of Bottles 0

Pond Condition  
% Surveyed 100

Turbidity (tick one)  
☐ Completely clear  
☐ Slightly turbid  
☒ Moderately turbid  
☐ Turbid  
☐ Mainly turbid  
☐ Very turbid

Vegetation Cover (tick one)  
☐ None  
☒ Slight cover  
☐ Moderate cover  
☐ Half covered  
☐ Mainly covered  
☐ Completely obscured

Water Temp. (°C)

Weather

Cloud Cover (circle one)

0 1 2 3 4 5 6 7 8

Wind Direction (e.g. NNW)

Wind Speed (Beaufort 0 -12) 0

Precipitation (tick one)

☒ None  
☐ Light Intermittent  
☐ Light Persistent  
☐ Heavy Intermittent  
☐ Heavy Persistent

Minimum Temp. (°C) 10

Maximum Temp. (°C) 12

Surveys Conducted (tick all that apply even if nothing was found)

☒ Torching  
☐ Bottling  
☐ Netting  
☐ Refuges  
☒ Egg searches

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

Additional Species Present (e.g. fish)





TORCHING<sup>1</sup>

NONE

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

BOTTLING<sup>1</sup>

N/A

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

NETTED<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

REFUGE<sup>1</sup>

Great-crested				Palmate				Smooth				Unidentified Newt							
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated)

NONE

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt



# Atmos Consulting Ltd Amphibian Survey Form

Project Code   
Site Name Wyfa V2  
Observer(s) LS AH  
GCN Licence LS AH  
Pond No. 037 Cluster

Grid Reference (2 letters and 10 figures)

--	--	--	--	--	--	--	--	--	--	--	--

Start Date 02052017

D D / M M / Y Y Y Y

--	--	--	--

H H : M M

--	--	--	--

H H : M M

No. of Bottles 10

Pond Condition  
% Surveyed 75

Turbidity (tick one)

<input type="checkbox"/>	Completely clear
<input type="checkbox"/>	Slightly turbid
<input checked="" type="checkbox"/>	Moderately turbid
<input type="checkbox"/>	Turbid
<input type="checkbox"/>	Mainly turbid
<input type="checkbox"/>	Very turbid

Vegetation Cover (tick one)

<input type="checkbox"/>	None
<input type="checkbox"/>	Slight cover
<input type="checkbox"/>	Moderate cover
<input checked="" type="checkbox"/>	Half covered
<input checked="" type="checkbox"/>	Mainly covered
<input type="checkbox"/>	Completely obscured

Water Temp. (°C)

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

Weather

Cloud Cover (circle one)

0 1 2 3 4 5 6 7 8

Wind Direction (e.g. NNW)

Wind Speed (Beaufort 0 -12) 0

Precipitation (tick one)

<input checked="" type="checkbox"/>	None
<input type="checkbox"/>	Light Intermittent
<input type="checkbox"/>	Light Persistent
<input type="checkbox"/>	Heavy Intermittent
<input type="checkbox"/>	Heavy Persistent

Minimum Temp. (°C) 10

Maximum Temp. (°C) 12

Surveys Conducted (tick all that apply even if nothing was found)

<input checked="" type="checkbox"/>	Torching
<input checked="" type="checkbox"/>	Bottling
<input type="checkbox"/>	Netting
<input type="checkbox"/>	Refuges
<input checked="" type="checkbox"/>	Egg searches

Additional Species Present (e.g. fish)

--





# Atmos Consulting Ltd Amphibian Survey Form

## TORCHING<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead				
						1						1									

**BOTTLING<sup>1</sup>** *NONE*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**NETTED<sup>1</sup>**

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**REFUGE<sup>1</sup>**

Great-crested					Palmate					Smooth					Unidentified Newt				
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead

**EGG SEARCHES** (individual egg(s) unless otherwise stated) *NONE*

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt



# Atmos Consulting Ltd Amphibian Survey Form

Project Code   
Site Name Wyfa (V3)  
Observer(s) LS AM  
GCN Licence LS AM  
Pond No. 18 Cluster

Grid Reference (2 letters and 10 figures)

--	--	--	--	--	--	--	--	--	--	--	--

Start Date 08052017

D D / M M / Y Y Y Y

H H : M M

H H : M M

No. of Bottles 10

Pond Condition  
% Surveyed 100

Turbidity (tick one)

<input type="checkbox"/>	Completely clear
<input checked="" type="checkbox"/>	Slightly turbid
<input type="checkbox"/>	Moderately turbid
<input type="checkbox"/>	Turbid
<input type="checkbox"/>	Mainly turbid
<input type="checkbox"/>	Very turbid

Vegetation Cover (tick one)

<input type="checkbox"/>	None
<input type="checkbox"/>	Slight cover
<input type="checkbox"/>	Moderate cover
<input checked="" type="checkbox"/>	Half covered
<input type="checkbox"/>	Mainly covered
<input type="checkbox"/>	Completely obscured

Water Temp. (°C)

Weather

Cloud Cover (circle one)

0 1 2 3 4 5 6 7 8

Wind Direction (e.g. NNW) W

Wind Speed (Beaufort 0 -12) 1

Precipitation (tick one)

<input checked="" type="checkbox"/>	None
<input type="checkbox"/>	Light Intermittent
<input type="checkbox"/>	Light Persistent
<input type="checkbox"/>	Heavy Intermittent
<input type="checkbox"/>	Heavy Persistent

Minimum Temp. (°C) 10

Maximum Temp. (°C) 12

Surveys Conducted (tick all that apply even if nothing was found)

<input checked="" type="checkbox"/>	Torching
<input checked="" type="checkbox"/>	Bottling
<input type="checkbox"/>	Netting
<input checked="" type="checkbox"/>	Refuges
<input checked="" type="checkbox"/>	Egg searches

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

Additional Species Present (e.g. fish)


--





# Atmos Consulting Ltd Amphibian Survey Form

## TORCHING<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead
						1																1	

## BOTTLING<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead
							1					1											

## NETTED<sup>1</sup>

Great-crested						Palmate					Smooth					Unidentified Newt				
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead			

## REFUGE<sup>1</sup>

Great-crested				Palmate				Smooth				Unidentified Newt							
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead

## EGG SEARCHES (individual egg(s) unless otherwise stated) NONE

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt



Atmos Consulting Ltd  
Amphibian Survey Form

Project Code

Site Name

Wylfa V3

Observer(s)

LS AH

GCN Licence

LS AH

Pond No.

P28b

Cluster

Grid Reference (2 letters and 10 figures)

Start Date

08052017

Start Time

D D / M M / Y Y Y Y

Finish Time

H H : M M  
H H : M M

Water Temp. (°C)

No. of Bottles

Pond Condition

Turbidity (tick one)

☐ Completely clear  
☐ Slightly turbid  
☒ Moderately turbid  
☐ Turbid  
☐ Mainly turbid  
☐ Very turbid

Vegetation Cover (tick one)

☒ None  
☐ Slight cover  
☐ Moderate cover  
☐ Half covered  
☐ Mainly covered  
☐ Completely obscured

Weather

Cloud Cover (circle one)

☒ 0 1 2 3 4 5 6 7 8

Wind Direction (e.g. NNW)

Wind Speed (Beaufort 0 -12)

Precipitation (tick one)

☒ None  
☐ Light Intermittent  
☐ Light Persistent  
☐ Heavy Intermittent  
☐ Heavy Persistent

Minimum Temp. (°C)

Maximum Temp. (°C)

Surveys Conducted (tick all that apply even if nothing was found)

☒ Torching  
☐ Bottling  
☐ Netting  
☐ Refuges  
☒ Egg searches

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

Additional Species Present (e.g. fish)





# Atmos Consulting Ltd Amphibian Survey Form

**TORCHING<sup>1</sup>**

*NONE*

Great-crested				Palmate				Smooth				Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Dead

**BOTTLING<sup>1</sup>**

*N/A*

Great-crested				Palmate				Smooth				Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Dead

**NETTED<sup>1</sup>**

Great-crested				Palmate				Smooth				Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Dead

**REFUGE<sup>1</sup>**

Great-crested				Palmate				Smooth				Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Dead

**EGG SEARCHES** (individual egg(s) unless otherwise stated) *NONE*

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt



Atmos Consulting Ltd  
Amphibian Survey Form

Project Code   
Site Name Wylfa V3  
Observer(s) LS AH  
GCN Licence LS AH  
Pond No. P37 Cluster

Grid Reference (2 letters and 10 figures)

Start Date 08052017  
D D / M M / Y Y Y Y

Start Time

H H : M M

Finish Time

H H : M M

No. of Bottles   
Pond Condition  
% Surveyed

Turbidity (tick one)  
☒ Completely clear  
☐ Slightly turbid  
☐ Moderately turbid  
☐ Turbid  
☐ Mainly turbid  
☐ Very turbid

Vegetation Cover (tick one)  
☐ None  
☐ Slight cover  
☐ Moderate cover  
☒ Half covered  
☐ Mainly covered  
☐ Completely obscured

Water Temp. (°C)

Weather  
Cloud Cover (circle one)  
☒ 0 1 2 3 4 5 6 7 8

Wind Direction (e.g. NNW) W

Wind Speed (Beaufort 0 -12) 1

Precipitation (tick one)

☒ None  
☐ Light Intermittent  
☐ Light Persistent  
☐ Heavy Intermittent  
☐ Heavy Persistent

Minimum Temp. (°C)

Maximum Temp. (°C) 12

Surveys Conducted (tick all that apply even if nothing was found)

☒ Torching  
☒ Bottling  
☐ Netting  
☐ Refuges  
☒ Egg searches

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

Additional Species Present (e.g. fish)





TORCHING<sup>1</sup> NONE

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

BOTTLING<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead
						1																	

NETTED<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

REFUGE<sup>1</sup>

Great-crested					Palmate					Smooth					Unidentified Newt				
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated) NONE

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt



Atmos Consulting Ltd  
Amphibian Survey Form

Project Code   
Site Name Wylfa (V4)  
Observer(s) JG AH  
GCN Licence JG AH  
Pond No. P18 Cluster

Grid Reference (2 letters and 10 figures)

Start Date 22052017  
D D / M M / Y Y Y Y  
Start Time

Finish Time   
H H : M M  
H H : M M

No. of Bottles   
Pond Condition  
% Surveyed 100

Turbidity (tick one)  
☐ Completely clear  
☒ Slightly turbid  
☐ Moderately turbid  
☐ Turbid  
☐ Mainly turbid  
☐ Very turbid

Vegetation Cover (tick one)  
☐ None  
☐ Slight cover  
☐ Moderate cover  
☒ Half covered  
☐ Mainly covered  
☐ Completely obscured

Water Temp. (°C)

Weather  
Cloud Cover (circle one)  
0 1 2 3 4 5 6 7 8

Wind Direction (e.g. NNW)

Wind Speed (Beaufort 0 -12) 0

Precipitation (tick one)

☒ None  
☐ Light Intermittent  
☐ Light Persistent  
☐ Heavy Intermittent  
☐ Heavy Persistent

Minimum Temp. (°C) 12

Maximum Temp. (°C) 13

Surveys Conducted (tick all that apply  
even if nothing was found)

☒ Torching  
☒ Bottling  
☐ Netting  
☐ Refuges  
☒ Egg searches

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

Additional Species Present (e.g. fish)

--





TORCHING<sup>1</sup> **NONE**

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

BOTTLING<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

NETTED<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

REFUGE<sup>1</sup>

Great-crested				Palmate				Smooth				Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	

EGG SEARCHES (individual egg(s) unless otherwise stated) **NONE**

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt



# Atmos Consulting Ltd Amphibian Survey Form

Project Code

Site Name

Wyfa (V4)

Observer(s)

JG AH

GCN Licence

JG AH

Pond No.

9286

Cluster

Grid Reference (2 letters and 10 figures)

Start Date

22052017

Start Time

Finish Time

H H : M M

H H : M M

No. of Bottles

Pond Condition

% Surveyed

Turbidity (tick one)

Vegetation Cover (tick one)

Water Temp. (°C)

Weather

Cloud Cover (circle one)

Wind Direction (e.g. NNW)

Wind Speed (Beaufort 0 -12)

Precipitation (tick one)

Minimum Temp. (°C)

Maximum Temp. (°C)

Surveys Conducted (tick all that apply even if nothing was found)

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

Additional Species Present (e.g. fish)





# Atmos Consulting Ltd Amphibian Survey Form

**TORCHING**<sup>1</sup>

*NONE*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**BOTTTLING**<sup>1</sup>

*N/A*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**NETTED**<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**REFUGE**<sup>1</sup>

Great-crested				Palmate				Smooth				Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	

**EGG SEARCHES** (individual egg(s) unless otherwise stated)

*NONE*

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt



Atmos Consulting Ltd  
Amphibian Survey Form

Project Code   
Site Name Wylfa 04  
Observer(s) JG AH  
GCN Licence JG AH  
Pond No. P37 Cluster

Grid Reference (2 letters and 10 figures)

Start Date 22052017  
D D / M M / Y Y Y Y  
Start Time   
H H : M M  
Finish Time   
H H : M M

No. of Bottles 10  
Pond Condition  
% Surveyed 75

Turbidity (tick one)  
☐ Completely clear  
☐ Slightly turbid  
☐ Moderately turbid  
☐ Turbid  
☒ Mainly turbid  
☐ Very turbid

Vegetation Cover (tick one)  
☐ None  
☐ Slight cover  
☐ Moderate cover  
☒ Half covered  
☐ Mainly covered  
☐ Completely obscured

Water Temp. (°C)

Weather  
Cloud Cover (circle one)  
0 1 2 3 4 5 6 7 8

Wind Direction (e.g. NNW)

Wind Speed (Beaufort 0 -12) 0

Precipitation (tick one)

☒ None  
☐ Light Intermittent  
☐ Light Persistent  
☐ Heavy Intermittent  
☐ Heavy Persistent

Minimum Temp. (°C) 12

Maximum Temp. (°C) 13

Surveys Conducted (tick all that apply  
even if nothing was found)

☒ Torching  
☒ Bottling  
☐ Netting  
☐ Refuges  
☒ Egg searches

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

Additional Species Present (e.g. fish)

--





TORCHING<sup>1</sup>

NONE

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

BOTTLING<sup>1</sup>

NONE

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

NETTED<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

REFUGE<sup>1</sup>

Great-crested				Palmate				Smooth				Unidentified Newt							
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead

EGG SEARCHES (individual egg(s) unless otherwise stated)

NONE

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt



Atmos Consulting Ltd  
Amphibian Survey Form

Project Code   
Site Name Wylfa (V5)  
Observer(s) AM SS  
GCN Licence AM  
Pond No. P18 Cluster

Grid Reference (2 letters and 10 figures)

Start Date 08062017  
D D / M M / Y Y Y Y

Start Time

H H : M M

Finish Time

H H : M M

No. of Bottles   
Pond Condition  
% Surveyed 100

Turbidity (tick one)  
☐ Completely clear  
☐ Slightly turbid  
☒ Moderately turbid  
☐ Turbid  
☐ Mainly turbid  
☐ Very turbid

Vegetation Cover (tick one)  
☐ None  
☐ Slight cover  
☐ Moderate cover  
☒ Half covered  
☐ Mainly covered  
☐ Completely obscured

Water Temp. (°C)

Weather  
Cloud Cover (circle one)  
0 1 2 3 4 5 6 7 8

Wind Direction (e.g. NNW) SW

Wind Speed (Beaufort 0 -12) 7

Precipitation (tick one)

☐ None  
☒ Light Intermittent  
☐ Light Persistent  
☐ Heavy Intermittent  
☐ Heavy Persistent

Minimum Temp. (°C)

Maximum Temp. (°C)

Surveys Conducted (tick all that apply even if nothing was found)

☒ Torching  
☒ Bottling  
☐ Netting  
☐ Refuges  
☒ Egg searches

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

Additional Species Present (e.g. fish)





# Atmos Consulting Ltd Amphibian Survey Form

**TORCHING**<sup>1</sup>

NONE

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**BOTTLING**<sup>1</sup>

NONE

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**NETTED**<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**REFUGE**<sup>1</sup>

Great-crested				Palmate				Smooth				Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	

**EGG SEARCHES** (individual egg(s) unless otherwise stated)

NONE

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt



Atmos Consulting Ltd  
Amphibian Survey Form

Project Code

--	--	--	--

Site Name

Wylfa V5

Observer(s)

AH SS

GCN Licence

AH

Pond No.

P286

Cluster

--	--

Grid Reference (2 letters and 10 figures)

--	--	--	--	--	--	--	--	--	--	--	--

Start Date

08062017

Start Time

D D / M M / Y Y Y Y

Finish Time

H H : M M

H H : M M

No. of Bottles

0
---

Pond Condition

% Surveyed

100
-----

Turbidity (tick one)

Completely clear				
Slightly turbid				
Moderately turbid				
Turbid				
Mainly turbid				
Very turbid				

Vegetation Cover (tick one)

None				
Slight cover				
Moderate cover				
Half covered				
Mainly covered				
Completely obscured				

Water Temp. (°C)

--	--

Weather

Cloud Cover (circle one)

0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---

Wind Direction (e.g. NNW)

SW

Wind Speed (Beaufort 0 -12)

7
---

Precipitation (tick one)

None				
Light Intermittent				
Light Persistent				
Heavy Intermittent				
Heavy Persistent				

Minimum Temp. (°C)

11
----

Maximum Temp. (°C)

11
----

Surveys Conducted (tick all that apply even if nothing was found)

Torching				
Bottling				
Netting				
Refuges				
Egg searches				

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

Additional Species Present (e.g. fish)

--





# Atmos Consulting Ltd Amphibian Survey Form

**TORCHING**<sup>1</sup>

*NONE*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**BOTTLING**<sup>1</sup>

*N/A*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**NETTED**<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**REFUGE**<sup>1</sup>

Great-crested				Palmate				Smooth				Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	

**EGG SEARCHES** (individual egg(s) unless otherwise stated)

*NONE*

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt



Atmos Consulting Ltd  
Amphibian Survey Form

Project Code   
Site Name Wylfa (V5)  
Observer(s) AH SS  
GCN Licence AH  
Pond No. 037 Cluster

Grid Reference (2 letters and 10 figures)

Start Date 08062017  
D D / M M / Y Y Y Y  
Start Time   
H H : M M  
Finish Time   
H H : M M

No. of Bottles   
Pond Condition 75  
% Surveyed

Turbidity (tick one)  
☐ Completely clear  
☐ Slightly turbid  
☐ Moderately turbid  
☒ Turbid  
☐ Mainly turbid  
☐ Very turbid

Vegetation Cover (tick one)  
☐ None  
☐ Slight cover  
☐ Moderate cover  
☒ Half covered  
☐ Mainly covered  
☐ Completely obscured

Water Temp. (°C)

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

Weather

Cloud Cover (circle one)

0 1 2 3 4 5 6 7 8

Wind Direction (e.g. NNW) SW

Wind Speed (Beaufort 0 -12) 7

Precipitation (tick one)

☒ None  
☐ Light Intermittent  
☐ Light Persistent  
☐ Heavy Intermittent  
☐ Heavy Persistent

Minimum Temp. (°C)

Maximum Temp. (°C)

Surveys Conducted (tick all that apply even if nothing was found)

☒ Torching  
☒ Bottling  
☐ Netting  
☐ Refuges  
☒ Egg searches

Additional Species Present (e.g. fish)

--





# Atmos Consulting Ltd Amphibian Survey Form

**TORCHING**<sup>1</sup>

NONE

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**BOTTLING**<sup>1</sup>

NONE

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**NETTED**<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**REFUGE**<sup>1</sup>

Great-crested					Palmate					Smooth					Unidentified Newt				
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead

**EGG SEARCHES** (individual egg(s) unless otherwise stated)

NONE

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt



Atmos Consulting Ltd  
Amphibian Survey Form

Project Code

--	--	--	--	--

Site Name

Wlyfa (v6)

Observer(s)

AH BCR

GCN Licence

AH

Pond No.

P18

Cluster

--	--

Grid Reference (2 letters and 10 figures)

--	--	--	--	--	--	--	--	--	--	--	--

Start Date

14062017

Start Time

--	--	--	--

Finish Time

--	--	--	--

D D / M M / Y Y Y Y

H H : M M

H H : M M

No. of Bottles

10
----

Pond Condition

% Surveyed

100
-----

Turbidity (tick one)

<input type="checkbox"/>	Completely clear
<input checked="" type="checkbox"/>	Slightly turbid
<input type="checkbox"/>	Moderately turbid
<input type="checkbox"/>	Turbid
<input type="checkbox"/>	Mainly turbid
<input type="checkbox"/>	Very turbid

Vegetation Cover (tick one)

<input type="checkbox"/>	None
<input type="checkbox"/>	Slight cover
<input type="checkbox"/>	Moderate cover
<input checked="" type="checkbox"/>	Half covered
<input type="checkbox"/>	Mainly covered
<input type="checkbox"/>	Completely obscured

Water Temp. (°C)

--	--

Weather

Cloud Cover (circle one)

0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---

Wind Direction (e.g. NNW)

SW

Wind Speed (Beaufort 0 -12)

3
---

Precipitation (tick one)

<input checked="" type="checkbox"/>	None
<input type="checkbox"/>	Light Intermittent
<input type="checkbox"/>	Light Persistent
<input type="checkbox"/>	Heavy Intermittent
<input type="checkbox"/>	Heavy Persistent

Minimum Temp. (°C)

13
----

Maximum Temp. (°C)

24
----

Surveys Conducted (tick all that apply even if nothing was found)

<input checked="" type="checkbox"/>	Torching
<input checked="" type="checkbox"/>	Bottling
<input type="checkbox"/>	Netting
<input checked="" type="checkbox"/>	Refuges
<input checked="" type="checkbox"/>	Egg searches

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

Additional Species Present (e.g. fish)

--





# Atmos Consulting Ltd Amphibian Survey Form

**TORCHING**<sup>1</sup> *NONE*

Great-crested				Palmate				Smooth				Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female

**BOTTLING**<sup>1</sup> *NONE*

Great-crested				Palmate				Smooth				Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female

**NETTED**<sup>1</sup>

Great-crested				Palmate				Smooth				Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female

**REFUGE**<sup>1</sup>

Great-crested				Palmate				Smooth				Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female

**EGG SEARCHES** (individual egg(s) unless otherwise stated) *NONE*

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt





Project Code

Site Name

Wylfa V6

Observer(s)

AH BCR

GCN Licence

AH

Pond No.

286

Cluster

Grid Reference (2 letters and 10 figures)

Start Date

14/06/2017

Start Time

Finish Time

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

No. of Bottles

Pond Condition

% Surveyed

Turbidity (tick one)

<input type="checkbox"/>	Completely clear
<input checked="" type="checkbox"/>	Slightly turbid
<input type="checkbox"/>	Moderately turbid
<input type="checkbox"/>	Turbid
<input type="checkbox"/>	Mainly turbid
<input type="checkbox"/>	Very turbid

Vegetation Cover (tick one)

<input checked="" type="checkbox"/>	None
<input type="checkbox"/>	Slight cover
<input type="checkbox"/>	Moderate cover
<input type="checkbox"/>	Half covered
<input type="checkbox"/>	Mainly covered
<input type="checkbox"/>	Completely obscured

Water Temp. (°C)

Weather

Cloud Cover (circle one)

0	1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---	---

Wind Direction (e.g. NNW)

Wind Speed (Beaufort 0 -12)

Precipitation (tick one)

<input checked="" type="checkbox"/>	None
<input type="checkbox"/>	Light Intermittent
<input type="checkbox"/>	Light Persistent
<input type="checkbox"/>	Heavy Intermittent
<input type="checkbox"/>	Heavy Persistent

Minimum Temp. (°C)

Maximum Temp. (°C)

Surveys Conducted (tick all that apply even if nothing was found)

<input checked="" type="checkbox"/>	Torching
<input type="checkbox"/>	Bottling
<input type="checkbox"/>	Netting
<input type="checkbox"/>	Refuges
<input checked="" type="checkbox"/>	Egg searches

Additional Species Present (e.g. fish)



# Atmos Consulting Ltd Amphibian Survey Form

**TORCHING**<sup>1</sup> *NONE*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**BOTTLING**<sup>1</sup> *NONE* *N/A*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**NETTED**<sup>1</sup>

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**REFUGE**<sup>1</sup>

Great-crested				Palmate				Smooth				Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	

**EGG SEARCHES** (individual egg(s) unless otherwise stated) *NONE*

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt





Atmos Consulting Ltd  
Amphibian Survey Form

Project Code

Site Name

Wylfa (V6)

Observer(s)

AH BCR

GCN Licence

AH

Pond No.

837

Cluster

Grid Reference (2 letters and 10 figures)

Start Date

14062017

Start Time

D D / M M / Y Y Y Y

Finish Time

H H : M M

H H : M M

No. of Bottles

Pond Condition

% Surveyed

Turbidity (tick one)

☐ Completely clear  
☐ Slightly turbid  
☒ Moderately turbid  
☐ Turbid  
☐ Mainly turbid  
☐ Very turbid

Vegetation Cover (tick one)

☐ None  
☐ Slight cover  
☐ Moderate cover  
☒ Half covered  
☐ Mainly covered  
☐ Completely obscured

Water Temp. (°C)

Other Amphibians (individual adults or groups of spawn unless otherwise stated)

	Female(s)	Male(s)	Unknown	Egg-clumps
Common frog				
Common toad				
Natterjack toad				

Weather

Cloud Cover (circle one)

☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☒ 7 ☐ 8

Wind Direction (e.g. NNW)

Wind Speed (Beaufort 0 -12)

Precipitation (tick one)

☒ None  
☐ Light Intermittent  
☐ Light Persistent  
☐ Heavy Intermittent  
☐ Heavy Persistent

Minimum Temp. (°C)

Maximum Temp. (°C)

Surveys Conducted (tick all that apply even if nothing was found)

☒ Torching  
☒ Bottling  
☐ Netting  
☐ Refuges  
☒ Egg searches

Additional Species Present (e.g. fish)





# Atmos Consulting Ltd Amphibian Survey Form

**TORCHING**<sup>1</sup> *NONE*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**BOTTLING**<sup>1</sup> *NONE*

Great-crested						Palmate						Smooth						Unidentified Newt					
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead

**NETTED**<sup>1</sup>

Great-crested						Palmate					Smooth					Unidentified Newt				
Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead	Female	Male	UK <sup>2</sup>	Juv	Eft	Dead			

**REFUGE**<sup>1</sup>

Great-crested				Palmate				Smooth				Unidentified Newt			
Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	Female	Male	UK <sup>2</sup>	Juv	Dead	

**EGG SEARCHES** (individual egg(s) unless otherwise stated) *NONE*

Great-crested	Palmate	Smooth	Unidentified Newt

<sup>1</sup> Individuals – please state if otherwise

<sup>2</sup> UK=Unknown gender/age of newt