

## **Preliminary Synopsis of the WFD Surveillance Monitoring Fish Stock Survey on Maumwee Lough in the Western River Basin District, August 2010**

### **1.1 Introduction**

A WFD fish stock survey was conducted on Maumwee Lough (L 97708 48533, Fig. 1) from the 30<sup>th</sup> to the 31<sup>st</sup> of August 2010 by staff from Inland Fisheries Ireland as part of the programme of surveillance monitoring for the Water Framework Directive.

### **1.2 Methods**

Maumwee Lough was surveyed over one night between the 30<sup>th</sup> and the 31<sup>st</sup> of August 2010. A total of two sets of Dutch fyke nets and seven benthic monofilament multi-mesh (12 panel, 5-55mm mesh size) survey gill nets were deployed randomly in the lake (9 sites). Survey locations were randomly selected using a grid placed over a map of the lake. A handheld GPS was used to mark the precise location of each net. The angle of each gill net in relation to the shoreline was randomised.

All fish were measured and weighed on site and scales were removed from all brown trout and salmon. Live fish were returned to the water whenever possible (i.e. when the likelihood of their survival was considered to be good). Samples of fish were retained for further analysis.

Maumwee Lough, Galway

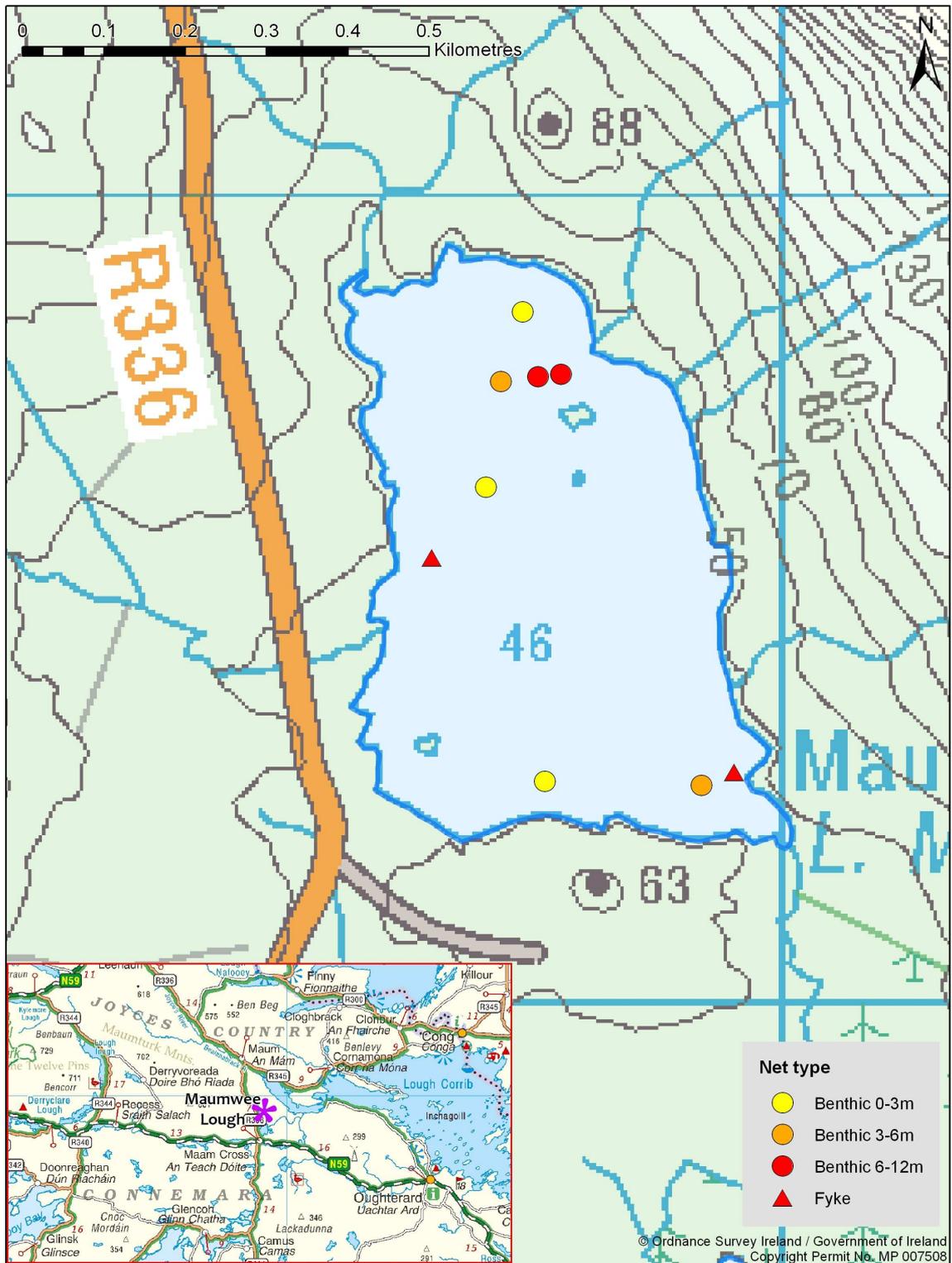


Fig. 1. Location map of Maumwee Lough showing net locations

### 1.3 Results

A total of five fish species were recorded in Maumwee Lough. The number of each fish species recorded is shown in Table 1. A total of 124 fish were captured during the survey.

**Table 1. Number of each fish species recorded in Maumwee Lough, August 2010**

<b>Species name</b>	<b>Common name</b>	<b>Number</b>
<i>Salmo trutta</i>	Brown trout	95
<i>Phoxinus phoxinus</i>	Minnow	20
<i>Anguilla anguilla</i>	Eel	6
<i>Salmo salar</i>	Salmon	2
<i>Gasterosteus aculeatus</i>	Three-spined stickleback	1

### 1.4 Further work

All fish will be aged after the fieldwork season has ended. Catch per unit effort (CPUE), biomass per unit effort (BPUE) and age profiles will be calculated for all fish species and a more detailed report will be available in early 2011.