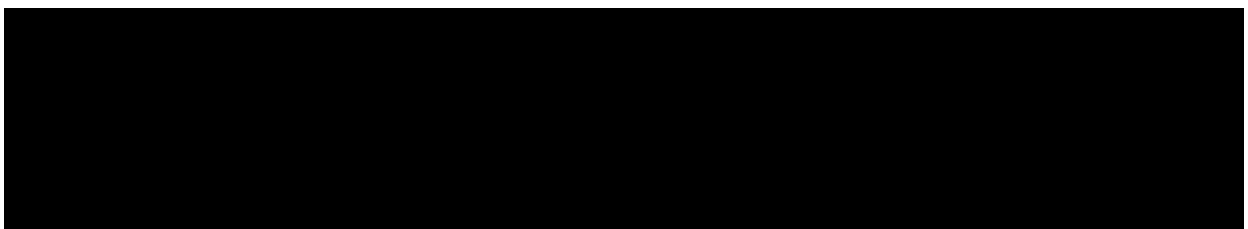


Marine Aquaculture Site **Loch Hourn**

Appendix 6. Loch Hourn Bath Auto Report

**Mowi Scotland Limited
December 2021**





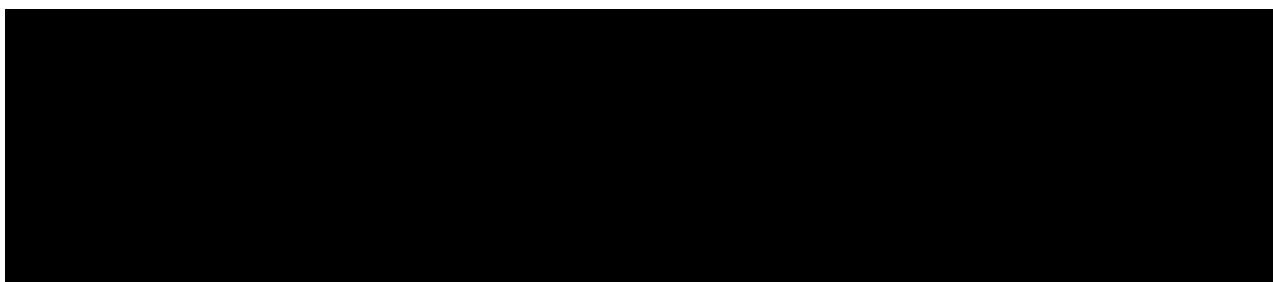
BathAuto Modelling Report

CREAG AN SAGAIRT, LOCH HOURN

Mowi Scotland Limited

CAR/L/1105276

December 2021



1 INTRODUCTION

This report has been prepared by Mowi Scotland Ltd. to meet the requirements of the Scottish Environment Protection Agency (SEPA) for an application to use topical sealice veterinary medicines on a marine salmon farm, **Creag an Sagairt**, in Loch Hourn (Figure 1). The report presents results from the BathAuto model for the topical medicine Deltamethrin to determine EQS-compliant quantities for the proposed site biomass and equipment. The dispersion of azamethiphos is described in a separate bath modelling report.

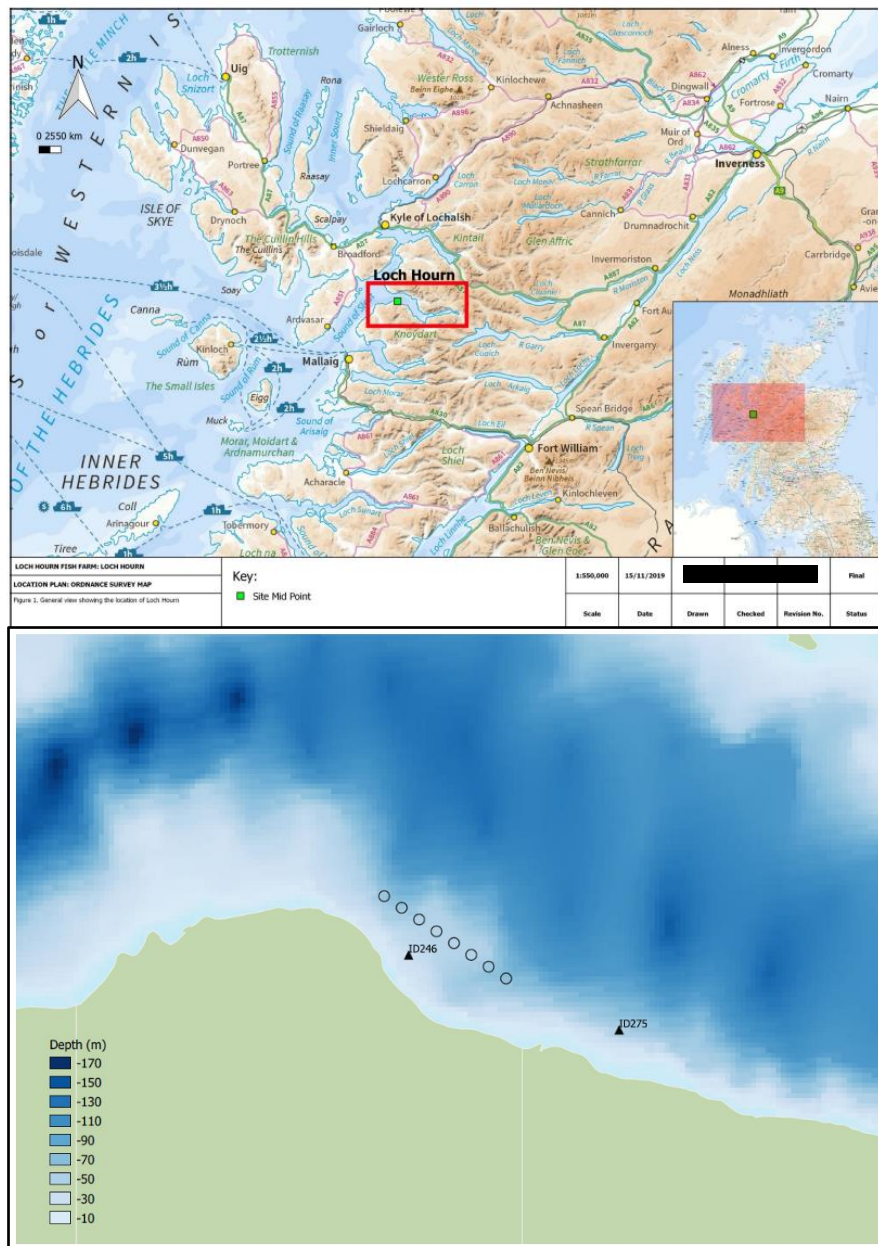


Figure 1. Location of Loch Hourn salmon farm (top) and the location of the ADCP deployments ID246 and ID275 in 2018 and 2019 respectively (▲) relative to the proposed pen positions (○).

1.1 Site Details

The site is situated adjacent to the southern shore of Loch Hourn (Figure 1). Details of the site are provided in Table 1. The receiving water is defined as a sea loch. Current meter data used with BathAuto was collected adjacent to the site (ID246, Figure 1, Table 1). A hydrographic report describing the current data is included with the application.

Table 1. Project Information

SITE DETAILS	
Site Name:	Creag an Sagairt
Site location:	Loch Hourn
Peak biomass (T):	3,100
Proposed feed load (T/yr):	7,920.5
Proposed treatment use:	Azamethiphos Deltamethrin
PEN DETAILS	
Group location:	NG 80170 09792
Number of pens:	8
Pen dimensions:	160m circumference
Grid matrix (m)	100
Working Depth (m):	20
Pen group configuration:	1 x 8
Pen group orientation (°G):	125.0
Pen group distance to shore (km):	0.32
Water depth at site (m):	45 – 60
HYDROGRAPHIC DATA	
Current Meter record ID:	ID246
Current meter position:	179910, 809766
Depth at deployment position (m):	34.61
Surface bin centre height above bed (m):	27.72
Middle bin centre height above bed (m):	16.72
Bottom bin centre height above bed (m):	3.72
Duration of record (days):	55
Start of record:	11-Sep-2018
End of record:	05-Nov-2018
Current meter averaging interval (min):	20

2 BathAuto Results

BathAuto was run using current parameters derived from the analysis of the near-surface cell from current meter deployment ID246. Cage details are given in Table 1. The cage treatment depth used for the bath treatments was 3.0m. EQS compliance for Deltamethrin was predicted at this cage depth.

Deltamethrin Results:

Cage Treatment Depth = 3.0m

Permissible Quantity of Deltamethrin = 17.7g; 1.4 cages/3 hours

The bath treatment model files are saved in the folder: *Bath Modelling\BathAuto*