

Marine Licence Application for Algal Farms

Version 1.0

Marine (Scotland) Act 2010

Acronyms

Please note the following acronyms referred to in this application form:

MHWS	Mean High Water Springs
MPA	Marine Protected Area
MS-LOT	Marine Scotland – Licensing Operations Team
SAC	Special Area of Conservation
SNH	Scottish Natural Heritage
SPA	Special Protection Area
SSSI	Site of Special Scientific Interest
WGS84	World Geodetic System 1984

Explanatory Notes

The following numbered paragraphs correspond to the questions on the application form and are intended to assist in completing the form. These explanatory notes are specific to this application and so you are advised to read these in conjunction with the Marine Scotland Guidance for Marine Licence Applicants document.

1. Applicant Details

The person making the application who will be named as the licensee.

2. Agent Details

Any person acting under contract (or other agreement) on behalf of any party listed as the applicant and having responsibility for the control, management or physical deposit or removal of any substance(s) or object(s).

3. Payment

Indicate payment method. Cheques must be made payable to: The Scottish Government.

Marine licence applications will not be accepted unless accompanied by a cheque for the correct application fee, or if an invoice is requested, until that invoice is settled. Target timelines for determining applications do not begin until the application fee is paid.

4. Application Type

Indicate if the application is for a new algal farm site or an existing algal farm site. Provide the existing or previous consent/licence number and expiry date if applicable.

5. Algal Farm Details

- Indicate the deposits of algal farm component parts/equipment as a number (e.g 4 lines). Provide details of any component parts/equipment not included in the list and specify the quantity as a number.
- If applicable, indicate the removals of algal farm component parts/equipment as a number (e.g 4 lines). Provide details of any component parts/equipment not included in the list and specify the quantity as a number.
- Provide the total area of proposed works in square metres.
- Provide the proposed start date for installation of the algal farm. The start date will not be backdated, since to commence a project for which a licence has not been obtained will constitute an offence, which may result in appropriate legal action. A licence is normally valid for 6 years. **Target duration for determination of a marine licence application is 14 weeks.**
- Provide the cost of the works seawards of the tidal limit of MHWS. This estimate should only cover work taking place below the tidal level of MHWS and must take into consideration the cost of materials, labour fees etc.
- Describe the location of the proposed works. Include a list of the latitude and longitude co-ordinates (WGS84) for the boundary points of the moorings area and for each of the component parts of the algal

farm, including sub-surface equipment. WGS84 is the World Geodetic System 1984 and the reference co-ordinate system used for marine licence applications. Co-ordinates taken from GPS equipment should be set to WGS84. Coordinates taken from recent admiralty charts will be on a WGS84 compatible datum. Ordnance survey maps do not use WGS84.

Example: For positions read from charts the format should be as in the example: 55°55.555'N 002°22.222'W (WGS84). The decimal point specifies that decimals of minutes are used and the datum is stated explicitly. If seconds are used then the format should be as in the example: 55°55'44"N 2°22'11"W (WGS84).

It is important that the correct positions, in the correct format, are included with this application, as any errors will result in the application being refused or delayed.

To supplement your application, please provide photographs of the project location and submit these with your application. Please also provide a suitably scaled extract of an Ordnance Survey Map (1:2,500 scale but not more than 1:10,000) or Admiralty Chart which must be marked to indicate:

- the full extent of the works in relation to the surrounding area;
- latitude and longitude co-ordinates defining the location of the works;
- the level of MHWS;
- any adjacent SAC, SPA, SSSI, MPA, Ramsar or similar conservation area boundary.

Drawings and plans will be consulted upon. If they are subject to copyright, **it is the responsibility of the applicant to obtain necessary approvals to reproduce the documents and to submit suitably annotated copies with the application.**

- (g) Indicate if the algal farm is located within the jurisdiction of a statutory harbour authority and provide details of the statutory harbour authority where relevant.
- (h) Provide a full method statement, including plan of how, when and where component parts are proposed to be deposited and removed.
- (i) Provide assessment of the potential impacts the works may have, including interference with other uses of the sea. Please include details of areas of concern e.g designated conservation areas, such as a SAC, SPA, SSSI, MPA or Ramsar site and shellfish harvesting areas. Further guidance on designated conservation areas can be obtained from SNH at this website: <http://gateway.snh.gov.uk/sitelink/index.jsp> and guidance on shellfish harvesting areas can be obtained from <http://www.foodstandards.gov.scot/> with regards to the Shellfish Waters Directive (2006/113/EC) which has parameters set to protect the water quality in which edible shellfish are grown.

Applicants should also be aware of the need to pay due regard to coastal and marine archaeological matters and attention is drawn to Historic Scotland's Operational Policy Paper HP6, "Conserving the Underwater Heritage".

Lochs Creran, Alsh, Duich and Long are designated as SAC under the Habitats Directive (Council Directive 92/43/EEC). Loch Creran has been selected for its bedrock and biogenic reefs of the tube worm *Serpula vermicularis* and the horse mussel, *Modiolus modiolus* and Lochs Alsh, Duich and Long for their sublittoral rock (marine) reefs. All are very sensitive to physical damage from anchors and the placement of moorings and in order to assist their protection reference should be made to the special moorings pack which can be downloaded from the following link:

<http://www.scotland.gov.uk/Topics/marine/Licensing/marine/Applications>

Where there are potential impacts from the works, please provide details of proposed mitigation in response to potential impacts.

6. Scotland's National Marine Plan

Scotland's National Marine Plan has been prepared in accordance with the EU Directive 2014/89/EU, which

came into force in July 2014. The Directive introduces a framework for maritime spatial planning and aims to promote the sustainable development of marine areas and the sustainable use of marine resources. It also sets out a number of minimum requirements all of which have been addressed in this plan. In doing so, and in accordance with article 5(3) of the Directive, Marine Scotland have considered a wide range of sectoral uses and activities and have determined how these different objectives are reflected and weighted in the marine plan. Land-sea interactions have also been taken into account as part of the marine planning process. Any applicant for a marine licence should consider their proposals with reference to Scotland's National Marine Plan. A copy of Scotland's National Marine Plan can be found at: <http://www.gov.scot/Publications/2015/03/6517/0>

Indicate whether you have considered the project with reference to Scotland's National Marine Plan and provide details of considerations made with reference to the policies, including but not limited to General Policy 7 (GEN 7), that have been considered. If you have not considered the project with reference to Scotland's National Marine Plan please provide an explanation.

7. Pre-Application Consultation

Certain activities will be subject to public pre-application consultation. Activities affected will be large projects with the potential for significant impacts on the environment, local communities and other legitimate uses of the sea. The new requirement will allow those local communities, environmental groups and other interested parties to comment on a proposed development in its early stages – before an application for a marine licence is submitted. Further information can be obtained from: <http://www.scotland.gov.uk/Resource/0043/00439649.pdf>

If applicable, please submit your pre-application consultation report with your application.

8. Consultation (other than carried out under pre-application consultation)

Provide details of all bodies consulted and give details of any consents issued including date of issue.

9. Associated Works

Indicate whether the application is associated with any other marine projects (e.g. pontoon, moorings etc). If this is the case, provide reference/licence number for the related marine projects.

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It is the responsibility of the applicant to obtain any other consents or authorisations that may be required.

Under Section 54 of the Marine (Scotland) Act 2010, all information contained within and provided in support of this application will be placed on a Public Register. There are no national security grounds for application information not going on the Register under the 2010 Act.

Public Register

Do you consider that any of the information contained within or provided in support of this application should not be disclosed:

- (a) for reasons of national security; YES NO
- (b) for reasons of confidentiality of commercial or industrial information where such confidentiality is provided by law to protect a legitimate commercial interest? YES NO

If **YES**, to either (a) or (b), please provide full justification as to why all or part of the information you have provided should be withheld.

WARNING

It is an offence under the Act under which this application is made to fail to disclose information or to provide false or misleading information.

Target duration for determination is 14 weeks. Please note that missing or erroneous information in your application and complications resulting from consultation may result in the application being refused or delayed.

Marine licence applications will not be accepted unless accompanied by a cheque for the correct application fee, or if an invoice is requested, until that invoice is settled. Target timelines for determining applications do not begin until the application fee is paid.

Declaration

I declare to the best of my knowledge and belief that the information given in this form and related papers is true.

Signature

Date

Name in BLOCK LETTERS

Patrick Howe

Application Check List

Please check that you provide all relevant information in support of your application, including but not limited to the following:

- Completed and signed application form
- Project Drawings
- Maps/Charts
- Co-ordinates of the boundary points of the area of harbour jurisdiction (if you are a statutory harbour authority)
- Method Statement
- Photographs of the location of the project
- Additional information e.g. consultation correspondence (if applicable)
- Noise Registry – Initial Registration Form (if applicable)
- Pre-application Report (if applicable)
- Payment (if paying by cheque)

1. Applicant Details

Title: **Mr** Initials: **P** Surname: **Howe**

Trading Title (if appropriate): **Lochnell Seaweed**

Address: **Inverlusragan, Connel, Oban, Argyll, PA37 1PG**

Name of contact (if different):

Telephone No. (inc. dialing code):

Email:

Statutory Harbour Authority? YES NO

If **YES**, please provide a list of the latitude and longitude co-ordinates (WGS84) of the boundary points of the area of harbour jurisdiction using Appendix 01 Additional Co-ordinates form if necessary.

2. Agent Details (if any)

Title: Initials: Surname:

Trading Title (if appropriate):

Address:

Name of contact (if different):

Telephone No. (inc. dialing code):

Email:

3. Payment

Enclosed Cheque Invoice

Contact and address to send invoice to:

Applicant Agent Other

If **OTHER**, please provide contact details:

Title: Initials: Surname:

Address:

Email:

4. Application Type

Is this application for a new algal farm site or an existing algal farm site:

New Site Existing Site

If an **EXISTING SITE**, please provide the consent/licence number and expiry date:

Consent/Licence Number	Expiry Date

5. Algal Farm Details

(a) **Deposits** of component parts/equipment:

Component Parts/Equipment	Quantity	Dimensions (metres)
Longlines	4	100
Grid moorings		
Boat moorings		
Rafts		
Pontoons		
Marked Buoys	2	2 of 3H x 1.2W
Other (please specify)	3	3 of 2000Kg anchors

(b) **Removals** of component parts/equipment (if relevant):

Component Parts/Equipment	Quantity	Dimensions (metres)
Longlines		
Grid moorings		
Boat moorings		
Rafts		
Pontoons		
Marked Buoys		
Other (please specify)		

(c) Total area of the proposed works (in square metres):

950 m²

(d) Proposed start date (**Target duration for determination of a marine licence application is 14 weeks**):

11th September 2022

(e) Cost of the works seawards of the tidal limit of MHWS:

£2800

(f) Location:

Sgeir Liath East, close to Sgeir Liath point. Anchor points for bouys and Floats
 56.30.080N 005.27.350W & 56.30.140N 005.27.310W & 56.30.200N 005.27.270W

Latitude and Longitude co-ordinates (WGS84) defining the boundary points of the moorings area and each of the component parts, including sub-surface equipment, of the algal farm (continue on Appendix 01 Additional Co-ordinates form if necessary):

Latitude										Longitude										
Moorings Area																				
		°			.				' N			°			.				' W	
		°			.				' N			°			.				' W	
		°			.				' N			°			.				' W	
		°			.				' N			°			.				' W	
Longline Position(s)																				
5	6	°	3	0	.	0	8	0	' N	0	0	5	°	2	7	.	3	5	0	' W
5	6	°	3	0	.	2	0	0	' N	0	0	5	°	2	7	.	2	7	0	' W
		°			.				' N			°			.				' W	
		°			.				' N			°			.				' W	
		°			.				' N			°			.				' W	
		°			.				' N			°			.				' W	
Boat Mooring Position(s)																				
		°			.				' N			°			.				' W	
		°			.				' N			°			.				' W	
Raft Position(s)																				
		°			.				' N			°			.				' W	
		°			.				' N			°			.				' W	
Pontoon Position(s)																				
		°			.				' N			°			.				' W	
		°			.				' N			°			.				' W	
Marked Buoy Position(s)																				
5	6	°	3	0	.	0	8	0	' N	0	0	5	°	2	7	.	3	5	0	' W
5	6	°	3	0	.	2	0	0	' N	0	0	5	°	2	7	.	2	7	0	' W

(g) Is the algal farm located within the jurisdiction of a statutory harbour authority

YES NO

If YES, please specify statutory harbour authority:

(h) Method statement including schedule of work (continue on separate sheet if necessary):

Monitoring and decommissioning

The farm structure will be daily monitored from the shore, and once a week by boat.
Dive survey will be conducted every 6 months
Gear that has worn out will be brought to shore, disinfected and disposed of correctly.
If the lease expires, Lochnell Seaweed will be responsible for the decommissioning of the farm.
Monitoring of the farm, will include both temperature and salinity loggers and monthly water samples and monthly eDNA water will be taken and filtered and retained for record purposes.

Production Plan

Development of farm Sept 2022; deployment of seeded twine Oct 2022.
Harvest in May 2023
Experimentation with SAMS on the results of varying depths on growth rates and the use of copicing.
Raw product will be sold to supply the growing demand for this product.

(i) Potential impacts the works may have (including details of areas of concern e.g designated conservation and shellfish harvesting areas) and proposed mitigation in response to potential impacts (continue on separate sheet if necessary):

Environmental Impact

Located in Loch Sunart to the Sound of Jura MPA.

The site of the seaweed farm is a "Brown Field" site as it covers the old now redundant finfish farm, which is shown on the charts.

Low risk of entanglement from mammals
Benthic impact: Minimal, no priority species have been found during the site selection dives and survey.
Sound: Minimal impact
Visual Impact: Very low, no residential home oversee the area or main roads for passing vehicles / tourism.

Advantages:

Restoration of a previous redundant finfish site.
Creating nursery for native fish and shellfish
Carbon capture: Seaweed uses Photosynthesis turning CO2 into biomass
Increases the biodiversity within the Lynne of Lorn
Nutrient removal; Nitrogen, phosphates and carbon from the local surrounding high density fish farms.
Gives off oxygen, which will prevent the potential for toxins within the oysters being grown in the locality.
Adding to the knowledge and understanding of how seaweed can be grown commercially.

Socio Economic Impacts

Visual Impact: Very low, no residential home oversee the area or main roads for passing vehicles / tourism.
Fisheries; mainly mobile gear, in deeper water. Creels to the edge of the deeper water. Very limited use close to the shoreline, with care static gear could still be used adjacent to the seaweed farm.
We have consulted with representatives of the local fishing association and no objections have been received.

6. Scotland's National Marine Plan

Have you considered the application with reference to Scotland's National Marine Plan?

YES NO

If **YES**, provide details of considerations made with reference to the policies, including but not limited to General Policy 7 (GEN 7), that have been considered:

GEN 1; 4.5 & 4.6 This is a sustainable development, and is in a remote area of Scotland
GEN 2; Seeks to bring economic benefits to the local community.
GEN 3; 4.7 Social benefits to the local community , future employment
GEN 4; 4.13 Growing native seaweeds and in the same space.
GEN 5; 4.18 & 4.19 Th seaweed is a Carbon Sink
GEN 6; 4.20 Native oysters grown locally since 16th Century Baronial Title
GEN 7: Very low visual impact, area is not accessible by the public, no residential properties overlook the area and cannot be seen from any public roads
GEN 8; 4.37 & 4.38 In creating Kelp Beds we are improving the resilience of ecosystems
GEN 9; 4.39 Farm will create a sanctuary for other marine life.
GEN 10; Seaweed sourced from SAMS, seaweed are native species
GEN 11; Growing process produces no litter
GEN 12; 4.65 & 4.66 Enhances water quality, by removing waste created by local finfish farms
GEN 13, Only noise will be from boat access, during normal working hours
GEN 14: No effect on Air Quality
GEN 20: Shared learning with SAMS and Oban High School via STEM

If **NO**, please provide an explanation of why you haven't considered the National Marine Plan?

N/A

7. Pre-Application Consultation

Is the application subject to pre-application consultation, under The Marine Licensing (Pre-application Consultation) (Scotland) Regulations 2013?

YES NO

If **YES**, please indicate the date of the public notice for the pre-application consultation event and the type of consultation event held (a copy of the public notice must be supplied with this application):

Event Type	Date
N/A not required as it is a trail farm with a footprint of less than 1000m ²	

8. Consultation

List all bodies you have consulted and provide copies of correspondence:

Notified
Nature Scotland, SEPA, Northern Lighthouse Board, Landowner, Mallaig and North West Fishing Association
No complaints or comments received following this.

Copies of replies attached

9. Associated Works

Provide details of other related marine projects, including reference/licence numbers (if applicable):

N/A