

## **Muckairn Mussels Seaweed application – General Planning Principles**

GEN 1 General planning principle: The newly licenced sites will use existing longlines and infrastructure of a fallow mussel farm and as such add no further burden to the planning principles

GEN 2 Economic benefit: Algae cultivation is a new venture in this geographical area and as such inputs a new income to the local and national economy

GEN 3 Social benefit: The use of existing longlines and infrastructure to grow algae during fallow periods of mussel farming, allow a more sustainable employment to local workers who would otherwise struggle

GEN 4 Co-existence: As part of an existing network of aquaculture farms, this alga cultivation project sits comfortably with other developments in the area.

GEN 5 Climate change: Algae cultivation requires no more than clean water and sunshine to produce the crop. As such there is little more required beyond the seeding at the beginning and harvesting at the end that require fossil fuels. There are no feed or treatment inputs throughout the process. The carbon captured during the growing period is short term current carbon with little sequestration value.

GEN 6 Historic environment: As we will be using existing longlines and infrastructure, no additional impacts will be felt on the local environment

GEN 7 Landscape/seascape: As GEN 6

GEN 8 Coastal process and flooding: As GEN 6

GEN 9 Natural heritage: As GEN 6

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GEN 13 Noise: We envisage no additional noise pollution from this project.

GEN 14 Air quality: We envisage no impact on local air quality from this project.

GEN 15 Planning alignment: The use of existing longlines and infrastructure means that there is no addition pressure on the local environment at the shore facilities or the local roads and villages. The deployment and harvest season is short (2 to 3 weeks in total) and will require only a few vehicles to move the harvest on to processing.

GEN 16 Planning alignment B: As GEN 15

GEN 17 Fairness: The algae cultivation will be a lower impact on other marine users than the previous shellfish cultivation.

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GEN 20 Adaptive management: Robust management of the project will be undertaken by staff with decades of Aquaculture experience.

GEN 21 Cumulative impacts: Algae cultivation amongst the existing Fin-fish Farms in the area will be seen an ecosystem benefit and may forward the ground breaking multi-trophic aquaculture ideals.

# Muckairn Mussels Seaweed application – Method Statement

## Introduction

Muckairn Mussels Ltd, intend to apply to Marine Scotland for licenses to set light lines seeded with algae (up to 4 species) on existing, licensed mussel farm in Loch Etive, Argyll and Bute. It is our intention to have the necessary consent in place to start seeding lines early in 2018.

The license application will have the critical information required and as much information we can get on the license currently held and any consultation responses received during the setup of the original mussel farm.

We hope that when MS-LOT approach the original statutory consultees you receive a reply of no contest from each and that Marine Scotland will be confident about consenting licences.

This Method Statement will be submitted along with the Algae License by the license holder and site owner's Agent and paid for immediately by BACS to begin the process.

The expected level of seaweed work is low as the work will primarily be done on a trial basis so cost of works expected are to be less than £2,500, so the marine licence application fee will be £56. At this time there are no plans for large scale commercial operations. The site will primarily be used as a test bed for seeding media and deployment and harvesting techniques. Should that situation change, MS-LOT will be informed via an FEP5 form.

The works will be bounded within the coordinates of 5 existing consented mussel farm arrays at the Muckairn site. Please see the attachments "Site map - All Sites, Muckairn Mussels, Loch Etive", as well as attachments with individual site coordinates and larger scaled maps.

## In water equipment

We will use the same header floats, ropes and anchors, same type of headlines, rafts and same shore infrastructure as is already in place at the site of the established, charted mussel farm with appropriate special marks denoting their limits.

There are no chemical additions or treatments used for the seaweed growing process. The seeded stock is sourced from local shore sites and will be cultured onto growing medium at commercial hatcheries such as Scottish Association for Marine Science (SAMS) at Dunstaffnage or any of the other hatcheries that are emerging around Scotland. The harvest for seeding plants will be very small volumes (<10 wet kg) and by taking no more than around 25% in any given patch on a shore. The species to be farmed are all found locally at or near the farm sites.

The species planned for use are Dulse (*palmaria palmata*), Oarweed (*laminaria digitata*) and Sugar Kelp (*saccharina latissima*). We will also trial small amounts of Atlantic Wakame (*alaria esculenta*).

The lines will be deployed by existing mussel farm vessels. Regular monitoring will decide the optimum harvest periods. Harvesting will be a reversal of the process using the same vessels. We expect the usual pattern of deployment to be from October to February and the expected harvest period being April to June. We will undertake regular monitoring of seaweed growth and duty of care over lines.

# SITE 4 – Muckairn (AR2-29-6) – SGEIR NAN RÒN

## Planning area

	WGS84			OSGB36	
	Degrees, Minutes, Seconds	Degrees, Decimal Minutes	Decimal Degrees	Grid reference	XY
NW corner	56°27'11.64"N 5°17'3.6"W	56° 27.194N 005° 17.060W	56.4532 -5.2843	NM9770533842	197705 733842
NE corner	56°27'10.14"N 5°16'44.04"W	56° 27.169N 005° 16.734W	56.4528 -5.2789	NM9803533781	198035 733781
SE corner	56°27'6.6"N 5°16'45.48"W	56° 27.110N 005° 16.758W	56.4518 -5.2793	NM9800533671	198005 733671
SW corner	56°27'8.1"N 5°17'4.74"W	56° 27.135N 005° 17.079W	56.4523 -5.2847	NM9767533743	197675 733743

## Equipment

3, 200m longlines

		WGS84			OSGB36	
		Degrees, Minutes, Seconds	Degrees, Decimal Minutes	Decimal Degrees	Grid reference	XY
Longline 1	W point	56°27'10.393"N 5°16'59.797"W	56 27.17322 -5 16.996614	56.452887 -5.2832769	NM9776633804	197766.015 733804.557
	E point	56°27'9.432"N 5°16'48.376"W	56 27.1572 -5 16.80627	56.452620 -5.2801045	NM9796033765	197960.637 733765.045
Longline 2	W point	56°27'9.443"N 5°17'0.182"W	56 27.15738 -5 17.00304	56.452623 -5.2833840	NM9775833775	197758.178 733775.821
	E point	56°27'8.453"N 5°16'48.759"W	56 27.14088 -5 16.812648	56.452348 -5.2802108	NM9795233735	197952.147 733735.656
Longline 3	W point	56°27'8.496"N 5°17'0.626"W	56 27.1416 -5 17.010438	56.452360 -5.2835073	NM9774933746	197749.688 733746.106
	E point	56°27'7.47"N 5°16'49.142"W	56 27.1245 -5 16.819032	56.452075 -5.2803172	NM9794433705	197944.31 733705.94

## Centre point of site

OSGB		WGS84 (lat/long)	
XY	Grid reference	Degrees, Decimal Minutes	Decimal Degrees
197850.10 733761.24	NM9785033761		

# SITE 5 – Muckairn (AR2-29-15) – RUBHA A' CHÀIRN BHIG

## Planning area

	WGS84			OSGB36	
	Degrees, Minutes, Seconds	Degrees, Decimal Minutes	Decimal Degrees	Grid reference	XY
NW corner	56°27'31.86"N 5°18'46.02"W	56° 27.531N 005° 18.767W	56.4586 -5.3128	NM9597834527	195978 734527
NE corner	56°27'24.6"N 5°18'34.08"W	56° 27.410N 005° 18.568W	56.4568 -5.3095	NM9617234317	196172 734317
SE corner	56°27'20.22"N 5°18'42.54"W	56° 27.337N 005° 18.709W	56.4556 -5.3118	NM9602434190	196024 734190
SW corner	56°27'28.14"N 5°18'55.38"W	56° 27.469N 005° 18.923W	56.4578 -5.3154	NM9581434446	195814 734446

## Equipment

12, 10x10m rafts

		WGS84			OSGB36	
		Degrees, Minutes, Seconds	Degrees, Decimal Minutes	Decimal Degrees	Grid reference	XY
Row 1 (6x1 rafts)	NW corner	56°27'28.505"N 5°18'42.539"W	56 27.47508 -5 18.708978	56.457918 -5.3118163	NM9630534448	196035.829 734448.037
	NE corner	56°27'26.561"N 5°18'38.979"W	56 27.44268 -5 18.649656	56.457378 -5.3108276	NM9609334385	196093.38 734385.877
	SE corner	56°27'26.32"N 5°18'39.426"W	56 27.43866 -5 18.657102	56.457311 -5.3109517	NM9608534378	196085.781 734378.901
	SW corner	56°27'28.235"N 5°18'42.925"W	56 27.47058 -5 18.71541	56.457843 -5.3119235	NM9602834440	196028.355 734440.937
Row 2 (6x1 rafts)	NW corner	56°27'27.925"N 5°18'43.541"W	56 27.46542 -5 18.725676	56.457757 -5.3120946	NM9601734431	196017.642 734431.594
	NE corner	56°27'26.014"N 5°18'39.984"W	56 27.43356 -5 18.666402	56.457226 -5.3111067	NM9607534369	196075.691 734369.434
	SE corner	56°27'25.776"N 5°18'40.373"W	56 27.4296 -5 18.672876	56.457160 -5.3112146	NM9606834362	196068.466 734362.832
	SW corner	56°27'27.688"N 5°18'43.929"W	56 27.46146 -5 18.73215	56.457691 -5.3122025	NM9601034424	196010.168 734424.618

## Centre point of site

OSGB		WGS84 (lat/long)	
XY	Grid reference	Degrees, Decimal Minutes	Decimal Degrees
195997.95 734374.11	NM9599734374	56 27.43422 -5 18.74244	56.457237 -5.3123740

## Millar P (Peter)

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**From:** MS Marine Licensing  
**Sent:** 05 December 2017 16:39  
**To:** 'argyll\_outerhebrides@snh.gov.uk'; 'navigationsafety@mcga.gov.uk'; 'navigation@nlb.org.uk'; FO Oban; 'Pauline.McGrow@ryascotland.org.uk'; 'Charlene.McPake@thescotlandportfolio.co.uk'; DIOSEE-EPSESCDSL1@defence.gsi.gov.uk; 'DIO ODC-LMS SNI1c (Massey, Shona C2) (DIOODC-LMSSNI1c@defence.gsi.gov.uk)'; 'as@argyllfisheriestrust.co.uk'  
**Subject:** 06569/06570 - Muckairn Mussels Ltd (per Argyll Aquaculture Resource Consultants LLP) - New Algal Farms - Site 4 and Site 5 Loch Etive, Argyll - Response Required by 02 January 2018  
**Attachments:** Algae application Muckairn - Site 4 (Sgeir nan Ron) - signed.pdf; Muckairn Mussels Seaweed application - Method Statement.pdf; Site coordinates - Site 4 - Sgeir nan Ron.pdf; Muckairn Mussels Seaweed application - General planning principles.pdf; All sites map - Muckairn Mussels, Loch Etive.pdf; Algae application Muckairn - Site 5 (Rubha a Chairn Bhig) - signed.pdf; Site coordinates - Site 5 - Rubha a Chairn Bhig.pdf  
**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Dear Sir/Madam,

MARINE (SCOTLAND) ACT 2010, PART 4 MARINE LICENSING

**06569 - Muckairn Mussels Ltd (per Argyll Aquaculture Resource Consultants LLP) - New Algal Farm - Site 4, Sgeir nan Ron, Loch Etive, Argyll**

CO-ORDINATES

56° 27.194'N	005° 17.060'W
56° 27.169'N	005° 16.734'W
56° 27.110'N	005° 16.758'W
56° 27.135'N	005° 17.079'W

**06570 - Muckairn Mussels Ltd (per Argyll Aquaculture Resource Consultants LLP) - New Algal Farm - Site 5, Rubha a Chairn Bhig, Loch Etive, Argyll**

CO-ORDINATES

56° 27.531'N	005° 18.767'W
56° 27.410'N	005° 18.568'W
56° 27.337'N	005° 18.709'W
56° 27.469'N	005° 18.923'W

The Licensing Officer for these cases is Louise Wilcox.

Marine licences have been requested under the above Act to undertake new algal farms at locations below the level of Mean High Water Springs. Licence applications details are in the attached correspondence.

Should you have any comments on these proposals, I would be grateful if they could be forwarded to me in an electronic format ([MS.MarineLicensing@gov.scot](mailto:MS.MarineLicensing@gov.scot)) or as a hard copy within 28 days of the date of this email.

If you require an extension to the consultation period, please inform me in writing as soon as possible and within 28 days of this email. A maximum two week extension to the consultation period will only be granted where significant concerns are raised.

If an extension request or a written reply to this consultation is not received within 28 days, it will be assumed that you are content with the proposals.

Marine Scotland - Licensing Operations Team will send you a copy of any licence that is subsequently issued for the proposed works.

Kind regards,

Sophia

**Marine Scotland** - Marine Planning & Policy

Scottish Government | Marine Laboratory | 375 Victoria Road | Aberdeen | AB11 9DB

General Queries: +44 (0)1224 295 579

General Email: [MS.marinelicensing@gov.scot](mailto:MS.marinelicensing@gov.scot)

Website: <http://www.gov.scot/Topics/marine/Licensing/marine>





## Millar P (Peter)

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**From:** MS Marine Licensing  
**Sent:** 05 December 2017 16:44  
**To:** Walter Speirs  
**Cc:** 'stevie jarron'  
**Subject:** 06569/06570 - Muckairn Mussels Ltd (per Argyll Aquaculture Resource Consultants LLP) - New Algal Farms - Site 4 and Site 5 Loch Etive, Argyll - Consultation Started

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Dear Mr Speirs,

### **06569/06570 - Muckairn Mussels Ltd (per Argyll Aquaculture Resource Consultants LLP) - New Algal Farms - Site 4 and Site 5 Loch Etive, Argyll**

I can confirm that the 28 day consultation period has started. Consultation responses received will be reviewed and forwarded to you at the end of the consultation. Following this, a determination on your applications will be made.

Kind regards,

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## Millar P (Peter)

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**From:** Pauline McGrow <Pauline.McGrow@ryascotland.org.uk>  
**Sent:** 07 December 2017 10:23  
**To:** MS Marine Licensing  
**Subject:** RE: 06569/06570 - Muckairn Mussels Ltd (per Argyll Aquaculture Resource Consultants LLP) - New Algal Farms - Site 4 and Site 5 Loch Etive, Argyll - Response Required by 02 January 2018

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi Sophia,

I write to inform you that RYA Scotland has no objections to this application.

Kind Regards

Pauline

**Pauline McGrow**  
**Senior Administrator**  
**Tel: 0131 317 4611**

**Royal Yachting Association Scotland**  
**T: 0131 317 7388**  
**E: [pauline.mcgrow@ryascotland.org.uk](mailto:pauline.mcgrow@ryascotland.org.uk)**



RYA Scotland, Caledonia House, 1 Redheughs Rigg, South Gyle, Edinburgh, EH12 9DQ  
T: 0131 317 7388, Fax: 0844 556 9549



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**From:** MS.MarineLicensing@gov.scot [mailto:MS.MarineLicensing@gov.scot]  
**Sent:** 05 December 2017 16:39  
**To:** argyll\_outerhebrides@snh.gov.uk; navigationsafety@mcga.gov.uk; navigation@nlb.org.uk; FO.Oban@gov.scot; Pauline McGrow <Pauline.McGrow@ryascotland.org.uk>; Charlene.McPake@thescotlandportfolio.co.uk; DIOSEE-

EPSESCDSL1@defence.gsi.gov.uk; DIOODC-LMSSNI1c@defence.gsi.gov.uk; as@argyllfisheriestrust.co.uk

**Subject:** 06569/06570 - Muckairn Mussels Ltd (per Argyll Aquaculture Resource Consultants LLP) - New Algal Farms - Site 4 and Site 5 Loch Etive, Argyll - Response Required by 02 January 2018

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Tha am post-d seo (agus faidhle neo ceanglan còmhla ris) dhan neach neo luchd-ainmichte a-mhàin. Chan eil e ceadaichte a chleachdadh ann an dòigh sam bith, a’ toirt a-steach còraichean, foillseachadh neo sgaoileadh, gun chead. Ma ’s e is gun d’fhuair sibh seo gun fhiosd’, bu choir cur às dhan phost-d agus lethbhreac sam bith air an t-siostam agaibh agus fios a leigeil chun neach a sgaoil am post-d gun dàil. Dh’fhaodadh gum bi teachdaireachd sam bith bho Riaghaltas na h-Alba air a chlàradh neo air a sgrùdadh airson dearbhadh gu bheil an siostam ag obair gu h-èifeachdach neo airson adhbhar laghail eile. Dh’fhaodadh nach eil beachdan anns a’ phost-d seo co-ionann ri beachdan Riaghaltas na h-Alba.

\*\*\*\*\*

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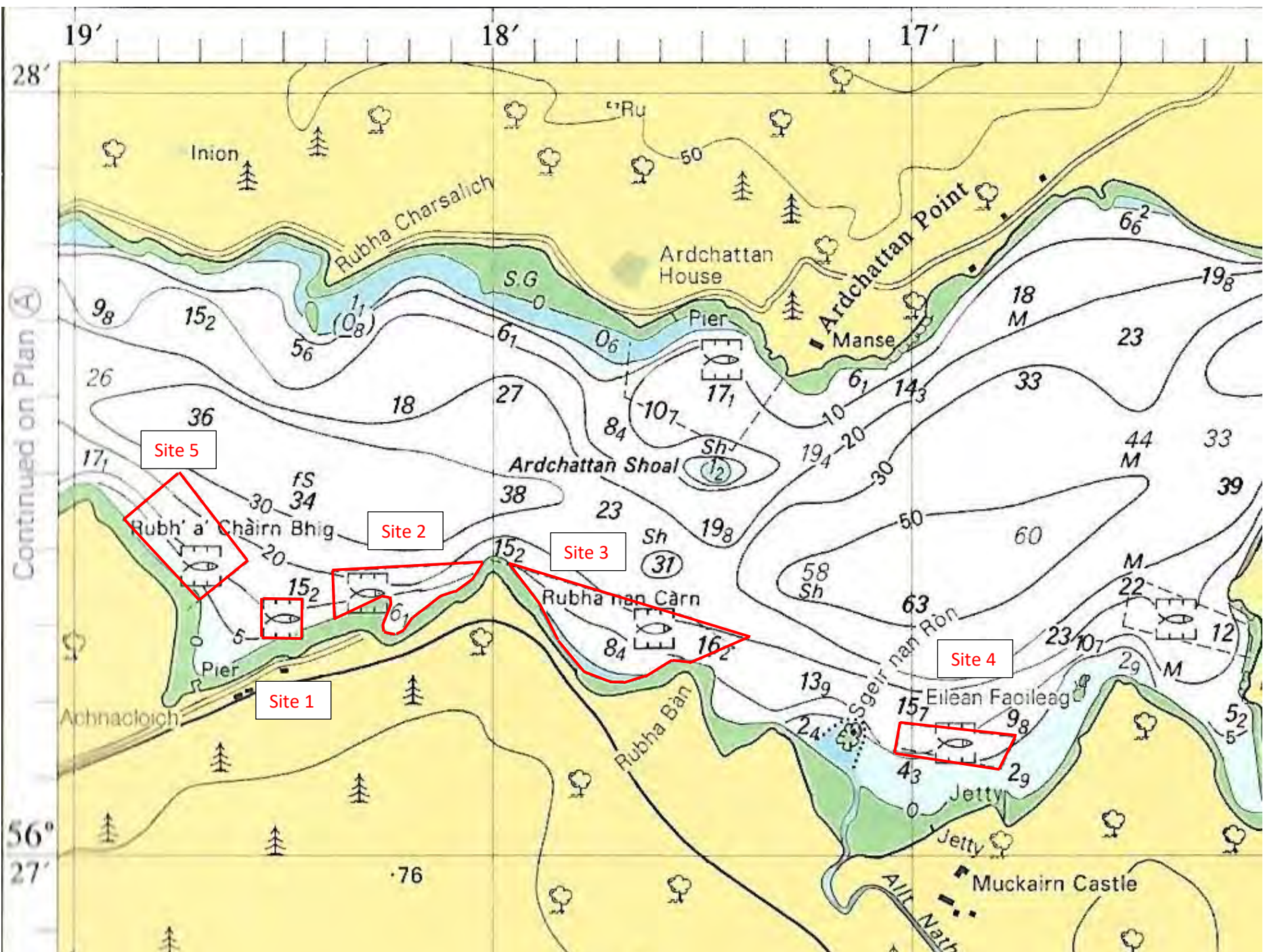
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## Millar P (Peter)

---

**From:** MS Marine Licensing  
**Sent:** 12 December 2017 09:52  
**To:** 'argyll\_outerhebrides@snh.gov.uk'; 'navigationsafety@mcga.gov.uk'; 'navigation@nlb.org.uk'; FO Oban; 'Pauline.McGrow@ryascotland.org.uk'; 'Charlene.McPake@thescotlandportfolio.co.uk'; DIOSEE-EPSESCDSL1@defence.gsi.gov.uk; 'DIO ODC-LMS SNI1c (Massey, Shona C2) (DIOODC-LMSSNI1c@defence.gsi.gov.uk)'; 'as@argyllfisheriestrust.co.uk'  
**Subject:** 06566/06567/06568 - Muckairn Mussels Ltd (per Argyll Aquaculture Resource Consultants LLP) - New Algal Farms - Site 1, Site 2 and Site 3 Loch Etive, Argyll - Response Required by 09 January 2018  
**Attachments:** Muckairn Mussels Seaweed application - Method Statement.pdf; Muckairn Mussels Seaweed application - General planning principles.pdf; All sites map - Muckairn Mussels, Loch Etive.pdf; Algae application Muckairn - Site 1 (Rafts) - signed.pdf; Site coordinates - Site 1 - Rafts.pdf; Site coordinates - Site 2 - Sgeir a Chait #2.pdf; Algae application Muckairn - Site 2 (Sgeir a Chait) - signed #2.pdf; Algae application Muckairn - Site 3 (Rubha nan Carn) - signed #2.pdf; Site 2 moorings chart #1.pdf; Site 2 moorings chart #2.pdf; Site coordinates - Site 3 - Rubha nan Carn #2.pdf  
**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Dear Sir/Madam,

MARINE (SCOTLAND) ACT 2010, PART 4 MARINE LICENSING

**06566 - Muckairn Mussels Ltd (per Argyll Aquaculture Resource Consultants LLP) - New Algal Farms - Site 1, Loch Etive, Argyll**

CO-ORDINATES

55° 27.353'N	005° 18.558'W
55° 27.353'N	005° 18.466'W
55° 27.299'N	005° 18.558'W
55° 27.299'N	005° 18.466'W

**06567 - Muckairn Mussels Ltd (per Argyll Aquaculture Resource Consultants LLP) - New Algal Farms - Site 2, Loch Etive, Argyll**

CO-ORDINATES

56° 27.420'N	005° 18.344'W
56° 27.396'N	005° 18.013'W
56° 27.329'N	005° 18.354'W
56° 27.326'N	005° 18.234'W
56° 27.351'N	005° 18.180'W
56° 27.346'N	005° 18.174'W
56° 27.322'N	005° 18.228'W
56° 27.405'N	005° 18.286'W
56° 27.391'N	005° 18.091'W
56° 27.394'N	005° 18.288'W



56° 27.380'N	005° 18.093'W
56° 27.384'N	005° 18.291'W
56° 27.370'N	005° 18.095'W
56° 27.372'N	005° 18.294'W
56° 27.358'N	005° 18.098'W

**06568 - Muckairn Mussels Ltd (per Argyll Aquaculture Resource Consultants LLP) - New Algal Farms - Site 3, Loch Etive, Argyll**

CO-ORDINATES

56° 27.388'N	005° 17.969'W
56° 27.288'N	005° 17.405'W
56° 27.245'N	005° 17.483'W
56° 27.336'N	005° 17.786'W
56° 27.312'N	005° 17.652'W
56° 27.307'N	005° 17.654'W
56° 27.331'N	005° 17.789'W
56° 27.363'N	005° 17.851'W
56° 27.310'N	005° 17.563'W
56° 27.327'N	005° 17.816'W
56° 27.294'N	005° 17.630'W
56° 27.320'N	005° 17.821'W
56° 27.286'N	005° 17.634'W

The Licensing Officer for these cases is Louise Wilcox.

Marine licences have been requested under the above Act to undertake new algal farms at a location below the level of Mean High Water Springs. Licence application details are in the attached correspondence.

Should you have any comments on these proposals, I would be grateful if they could be forwarded to me in an electronic format ([MS.MarineLicensing@gov.scot](mailto:MS.MarineLicensing@gov.scot)) or as a hard copy within 28 days of the date of this email.

If you require an extension to the consultation period, please inform me in writing as soon as possible and within 28 days of this email. A maximum two week extension to the consultation period will only be granted where significant concerns are raised.

If an extension request or a written reply to this consultation is not received within 28 days, it will be assumed that you are content with the proposals.

Marine Scotland - Licensing Operations Team will send you a copy of any licence that is subsequently issued for the proposed works.

Kind regards,

Sophia

Sophia Irvine  
 Marine Licensing Support Officer  
**Marine Scotland** - Marine Planning & Policy

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Website: <http://www.gov.scot/Topics/marine/Licensing/marine>

