

By email: [REDACTED]

Our Ref: SIR156638/A3097059

8 November 2019

Dear [REDACTED]

Information Request – Information about ADDs

Thank you for your information request, which we received on 26 August 2019 and with additional clarification on the 11 October 2019. We have considered your request under the Environmental Information (Scotland) Regulations 2004 ('the EIRs').

Your Request

Email request dated 26 August 2019

- “Under the terms of these regulations and the Freedom of Information (Scotland) Act 2002, please advise and assist me with identifying and providing (in electronic form) the Appropriate Assessment made by SNH for The Minches SAC, of the potential impact of Acoustic Deterrent Devices used by fish farms on cetaceans, including the harbour porpoise.
- Please also release all other assessments, reports and correspondence (internal to SNH and external, including but not limited to Marine Scotland, Marine Scotland Science, the JNCC, Scottish Ministers and Local Planning Authorities), on the impact of ADDs on cetaceans, whether in Natura sites such as The Minches SAC, or outside them, and the licensing of the use of these devices under the laws that protect European Protected Species (EPS licences). EPS licences are issued by Marine Scotland when it is deemed essential that European Protected Species are disturbed.”

Email confirmation dated 11 October 2019

- “Appropriate Assessment for the use of ADDs in the Minches SAC.
- Regarding the other part of my request, I accept your suggestion that you send the details of the previous FOI/EIR requests that relate to disturbance of cetaceans by ADDs and to their licensing under the EPS regulations, providing that this also include all correspondence to date, in both directions, with Marine Scotland and Scottish Ministers on the disturbance cause to cetaceans by ADDs and the requirement that these devices are used under EPS licences when they are installed on fish farms.”

Background Information

Responsibility for undertaking an Appropriate Assessment (AA), if required, and the wider Habitat Regulations Appraisal (HRA), lies with the regulatory body responsible for providing the consent being applied for, and not with SNH.

In the case of ADDs, which form part of a fish-farm planning application, it is the three local authorities bordering the SAC, and you would need to contact them for copies of any AAs which they may have prepared relating to individual fish-farm planning application(s).

SNH may, occasionally, draft an HRA pro-forma, for internal use, to inform the advice we are providing to a regulatory body. An example of this pro-forma relating to ADD use with a fish-farm application in the Inner Hebrides and Minches SAC is included in the collated information attached to this response.

We have included the advice provided to Local Authorities for all relevant applications encompassing ADD use. A copy of recently prepared draft guidance, for use by SNH staff on how to respond to fish-farm applications within the SAC which involve proposals for ADDs has also been provided as a separate attachment with this response.

Our Response

We have carried out a detailed search of the information we hold, and, as there is a large amount of information, we have collated it into eight separate attachments with this response.

These attachments relate to your request as follows:

Collated Information No1 – This contains an example of the internal Habitats Regulations Appraisal pro-forma used by SNH staff to inform advice to a regulatory body (in this case relating to Loch Shuna fish-farm) – this can be found in pages 51-57. This collated information also contains additional material and correspondence that meets the terms of your request.

Collated Information No2-7 – These 6 attachments are the previous FOI/EIR requests that relate to disturbance of cetaceans by ADDs and to their licensing under the EPS regulations.

Collated Information No8 – A copy of the recently prepared internal draft guidance for SNH staff on how to respond to fish-farm applications within an SAC and which involve proposals for ADDs

We have marked out (redacted) some personal data in the documents provided. Releasing the personal data into the public domain in response to an access to information request would breach the Data Protection Act 2018. We are therefore withholding the information under EIRs Regulation 11(1) and 11(2) (Personal data).

How We Handled Your Request

We believe you have asked for environmental information as defined in the Environmental Information (Scotland) Regulations 2004 ('the EIRs'), so we are dealing with your request under those regulations. To be able to use the EIRs, we must apply an exemption under section 39(2) of the Freedom of Information (Scotland) Act 2002 ('FOISA'). The Scottish Information Commissioner's guidance recommends that public authorities apply this exemption to environmental information and handle requests under the EIRs.

If you would like to find out more about the access to information legislation, there is a guidance booklet available on the Scottish Information Commissioner's website:

<http://www.itspublicknowledge.info/nmsruntime/saveasdialog.aspx?IID=5487&SID=5024>.

Review and Appeal

I hope this information meets your requirements, but if you are dissatisfied with how we have responded to your information request, please write to us within 40 working days explaining your concerns. You can contact us at Battleby, Redgorton, Perth, PH1 3EW or email us at FOI@nature.scot. We will carry out a review of our response and contact you with our findings within 20 working days.

If you are not satisfied following this, you can make an appeal to the Scottish Information Commissioner within 6 months. The Scottish Information Commissioner can be contacted at:

Scottish Information Commissioner
Kinburn Castle
Doubledykes Road
St Andrews
Fife
KY16 9DS

Online appeal service: www.itspublicknowledge.info/Appeal

Website: <http://www.itspublicknowledge.info/>

Telephone: 01334 464610

Yours sincerely

Sharon Phipps

Sharon Phipps
Information Officer
foi@nature.scot



Scottish Natural Heritage Dualchas Nàdair na h-Alba

All of nature for all of Scotland
Nàdar air fad airson Alba air fad

Director of Planning and Development
The Highland Council
Glenurquhart Road
Inverness
IV3 5NX

FAO: Colin Wishart

10 July 2015

Your ref: 15/02012/FUL

Dear Mr Wishart,

TOWN & COUNTRY PLANNING (SCOTLAND) ACT 1997 ENVIRONMENTAL IMPACT ASSESSEMENT (SCOTLAND) REGULATIONS REVISED LOCATION FOR NEW MARINE FISH FARM IN LOCH POOLTIEL, GLENDALE, ISLE OF SKYE

Thank-you for your consultation of 4 June regarding the above proposal. Please accept this response in place of our earlier 'no comments' response which was sent in error.

Summary

This proposal does not raise any natural heritage issues of regional or national importance. There are likely to be local impacts on protected species and landscape but it is for you to assess the importance of these issues in the context of your own policies.

Background

We responded to the previous planning consultation for a fish farm in Loch Pooltiel put forward by the same applicant in 2013. That application was withdrawn and the current one is for an alternative site approximately 500m further west towards the mouth of the loch.

This proposal is to install 12 x 100m circumference cages in a single group. A 20m x 10m x 7m tall feed barge is proposed inshore of the cages. Maximum biomass would be 2500T. Moorings cables will be anchored onto the adjacent foreshore.

Appraisal of the impacts of the proposal and advice

Landscape and visual

The proposed site lies within the North-West Skye Special Landscape Area as identified in the local plan.

Scottish Natural Heritage, King's House, The Green, Portree, Isle of Skye, IV51 9BS
Tel: 01478 612625 www.snh.gov.uk

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Objective document ref: b*****



INVESTOR IN PEOPLE

Comments on photomontages

The viewpoints chosen provide a comprehensive series reflecting the various angles and receptors. The quality and angle of view of the base photos is generally good, although haze means the Western Isles are not visible. The application states that the photomontages have been scaled using buoys in the water and this has resulted in more realistic photomontages than the previous application.

Impact on landscape character

Although the revised fish farm location is further from the crofting townships than the previous proposal it still features in the same field of view from most viewpoints. It is likely to be perceived as a component of a settled, working landscape.

The fish farm would be inferior in scale to the sea, especially as the new site is further out towards open water. The low, linear layout of the fish farm is compatible with the horizontal emphasis of the landscape. The height of the structures will be clearly inferior to the coastal cliffs nearby. It will align well with the adjacent coastline in most views. The location, well over to one side of Loch Pooltiel, means that it does not block the visual movement out to sea.

The immense vertical cliffs south of Biod an Athair exhibit a strong sense of ruggedness and naturalness which contribute to a sense of localised wildness in that area. However the fish farm is associated with the settled southern shore of Loch Pooltiel and is unlikely to compromise those attributes.

Visual impacts

The revised fish farm location appears to have reduced the visual impact of the proposals from the majority of viewpoints on the south side of the loch. Views from the viewpoints on the north side of the loch are unlikely to have changed significantly.

The landscape in this location is not classified as being of national importance and we do not consider that this proposal raises any issues of national importance.

Benthic

Benthic video transect surveys were carried out in May 2014. A subsequent change to the final siting of the proposed cages means that the transect 1 is offset from the centre of the AZE. However, given the uniformity of the habitats observed (which are consistent with the habitats at the previously proposed site), it seems likely that the footage collected is representative of the habitats present across the AZE.

The video transects have been conducted at a reasonable speed and height above the sea bed. Although the lighting often has a green cast, water clarity is good and there is little stirring of the sediment. The ROV seldom pauses to provide more detailed views and panning around the wider area is rare. However, the footage is of sufficient quality to assess the broad habitat types present.

There is an expansive sandy plain that is notably uniform across the site. The most obvious species is the tube anemone *Cerianthus lloydii* which is abundant across much of the site. Ubiquitous species occur such as the sea urchin *Echinus esculentus* and starfish *Asterias rubens*. No Priority Marine Feature (PMF) habitats or species were observed.

Protected species

Cetaceans and basking sharks

The Little Minch between Skye and the Western Isles is known to support relatively high densities of minke whale, harbour porpoise and basking sharks. This is reflected in its inclusion within the Sea of the Hebrides MPA proposal which we submitted to Scottish Government in July 2014 (see <http://www.snh.gov.uk/docs/A1351902.pdf> for more details). JNCC has recently published a report '*The identification of discrete and persistent areas of relatively high harbour porpoise density in the wider UK marine area*' which indicates that this species is present at relatively high densities (see http://jncc.defra.gov.uk/pdf/JNCC_Report%20544_web.pdf).

Our advice is that this proposal is unlikely to have a major effect on these species. The developer has put forward a predator control plan which follows good practice, focussing on the use of well-tensioned nets but retaining the possibility of using acoustic deterrent devices or anti-predator nets under certain circumstances. It integrates various feedback loops and safeguards which should ensure minimal impacts on cetaceans and basking sharks.

Localised displacement of harbour porpoise (and possibly other cetaceans) remains a possibility if ADDs are used; however the relatively open nature of the coastline in this location means that major effects are unlikely. Entanglement in anti-predator nets is possible but is thought to be a very rare occurrence for these species.

White-tailed eagle

A young pair of white-tailed eagles has recently become established in the area. Their nest site is sufficiently close to the development that, if they chose to use that site again, they would likely be disturbed by the establishment of the proposed fish farm.

White-tailed eagles are specially protected and it is an offence to intentionally or recklessly disturb them or their dependent young at their nest during the breeding season. It is also an offence to harass a white-tailed eagle at any time. Further detail on their legal status is available in <http://www.snh.gov.uk/docs/A1230814.pdf>

In order to avoid an offence being committed during the construction phase it would be necessary to install any consented fish farm outside the breeding season (1 February to 31 August). In addition we advise that work should not start until 2 hours after sunrise and finish 2 hours before sunset in order to protect any roosting eagles. It would be preferable for works to be complete soon after the breeding season ends in order to allow maximum time for the birds to become accustomed to the fish farm in advance of the next breeding season.

It is uncertain how the birds would respond to the operational fish farm. However, even in a worst case scenario the favourable conservation status of the regional population of white-tailed eagles would be unaffected. It is therefore for you to weigh up the importance of any impacts on this particular pair in the context of your own policies.

Otters

Otters are present along this stretch of coastline. The installation of rock anchors on the foreshore raises the potential for disturbance of otter breeding and resting sites. No otter survey has been carried out and we are therefore unable to advise whether a disturbance license would be required.

Conclusion

We advise that the natural heritage interests which are likely to be affected by this proposal would not be considered of national importance. It is for you to judge the relative importance of those impacts in the context of your own policies.

Please let me know if you would like any clarification or further advice.

Yours sincerely,

Alex Turner
Area Officer, Skye and Lochalsh
alex.turner@snh.gov.uk

From: [Tamara Lawton](#)
To: [REDACTED]@gov.scot"
Cc: [REDACTED]info@smbplanning.co.uk"; [REDACTED]@highland.gov.uk
[REDACTED]@highland.gov.uk"; [REDACTED]@macroberts.com"; "Planning Dingwall
(PlanningDingwall@sepa.org.uk)"; [REDACTED]r@gov.scot"; "admin@wrasfb.org.uk"
(admin@wrasfb.org.uk)" [REDACTED]@sepa.org.uk"; [REDACTED]";
Subject: PPA-270-2113-1 - Planning permission appeal: Site North West of Sgeir Dughall, Loch Torridon
Date: 03 May 2016 16:41:00

Dear Christine, thank you for your consultation dated 20th April 2016 and received by us on 25th April 2016 regarding the above planning appeal.

In your notice requesting further information to help consider the case, advice has been sought from us on 'the potential impact on the [Inner Hebrides and the Minches proposed Special Area of Conservation] pSAC of granting a new permission of unlimited duration as sought in the section 42 application'.

Our response to this request is detailed below.

The proposal lies within the Inner Hebrides and the Minches proposed Special Area of Conservation (pSAC) selected for its harbour porpoise feature.

It is Scottish Government policy that all proposed SACs, that is any SAC which is subject of a formal consultation, should be treated as designated in terms of management decisions and assessment of new activities (i.e. they receive policy protection). If Scottish Ministers decide to submit the site to the European Commission as a candidate SAC, at that point it will have full legal protection.

Based on the above, the effect of the development proposal on the proposed SAC should be considered before it can be consented. The SNH website has a summary of the legislative requirements (<http://www.snh.gov.uk/docs/A423286.pdf>).

There are natural heritage interests of international importance on the site, but in our view, these will not be adversely affected by the proposal.

In our view, should acoustic deterrent devices (ADDs) be used in conjunction with this proposal then it is likely it will have a significant effect on the harbour porpoise feature of site, primarily as a result of the potential for habitat exclusion and disturbance to occur. Consequently, an appropriate assessment in view of the site's conservation objectives for its qualifying interest should be undertaken before issuing consent.

In our view, based on the information available to us at this time, the proposal will not adversely affect the integrity of the site. The appraisal we carried out considered the impact of the proposals on the following factors:

1. The site is located in the periphery of the SAC in an area which is unlikely to prevent passage in to any other significant areas of the SAC. While the use of ADDs in this location could exclude harbour porpoise from an area, it is our view that the potential exclusion zone is unlikely to be significant in the context of the SAC as a whole. Furthermore, should ADDs be removed / cease to operate then the area which harbour porpoise could be excluded from would again become available immediately with no lasting effects.

2. There is also a risk that the use of ADDs in this location could result in the disturbance of harbour porpoise. This area has not been identified as an area of higher risk in terms of cumulative impacts. It is our view that the implementation of what we

consider to be best practice operational measures, as outlined in the original planning application submission (11/04228/FUL) as part of the 'Site Specific Predator Control Plan Diabeg', would ensure that the use of ADDs would not result in any significant disturbance to the harbour porpoise feature. This best practice includes the commitment to ensuring that no continuous use of ADDs shall be permitted on site and instead their use should be targeted and in response to specific high risk predation events.

I hope this is helpful, if you have any further queries, do get back to me.

Kind regards,
Tamara

Tamara Lawton
Operations Officer (Wester Ross)
Scottish Natural Heritage/Dualchas Nàdair na h-Alba
17 Pulteney Street/17 Sràid Pholtanaidh
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Planning and Development
The Highland Council
Tigh Na Sgìre
Park Lane
Portree
IV51 8GP

FAO: Alison Harvey

7 October 2016

Your ref: 16/03352/FUL

Dear Ms Harvey,

TOWN & COUNTRY PLANNING (SCOTLAND) ACT 1997 NEW FISH FARM COMPRISING 10 X 38M DIAMETER CAGES IN OUTER LOCH PORTREE/SOUND OF RAASAY, ISLE OF SKYE

Thank-you for your consultation dated 2 August regarding the above proposal.

Summary

This proposal could be progressed with appropriate changes/mitigation. However, because it could affect internationally important natural heritage interests (harbour porpoise), **we object to this proposal unless it is made subject to conditions so that the works are done strictly in accordance with the changes/mitigation detailed in our appraisal below.**

A number of Priority Marine Features are present at this site and will be affected by these proposals but there are unlikely to be significant impacts on their national status.

Background

We responded to an EIA screening and scoping consultation for this proposal in March 2015. The current proposals are being treated as a separate development for the purposes of planning and CAR licencing. However the close proximity and sharing of a feed barge with the existing Portree fish farm means that cumulative impacts are particularly relevant.

Appraisal of the impacts of the proposal and advice

1. Inner Hebrides and the Minches candidate Special Area of Conservation

The proposal lies within Inner Hebrides and the Minches candidate Special Area of Conservation (cSAC) selected for its harbour porpoise. The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994

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as amended (the “Habitats Regulations”) or, for reserved matters the Conservation of Habitats and Species Regulations 2010 as amended apply. Consequently, The Highland Council is required to consider the effect of the proposal on the cSAC before it can be consented (commonly known as Habitats Regulations Appraisal). The SNH website has a summary of the legislative requirements (<http://www.snh.gov.uk/docs/A423286.pdf>).

In our view, this proposal is likely to have a significant effect on harbour porpoise within Inner Hebrides and the Minches cSAC. Consequently, The Highland Council is required to carry out an appropriate assessment in view of the site’s conservation objectives for its qualifying interest. To help you do this, we advise that in our view on the basis of the information provided, and if the proposal is undertaken strictly in accordance with the following changes/mitigation then the proposal will not adversely affect the integrity of the site:

- If ADDs are used which are within the hearing range of harbour porpoise they must be devices which are only triggered in the presence of predators. They should not sound continuously, or be set to intermittent unless agreed in writing by the Highland Council.
- For each device deployed, a detailed record should be kept by the operator of the cue for deployment, dates when the devices are operating, how often they sound and for what duration. Information should be provided of the noise profile of the devices when they are sounding.
- The use of ADDs should be subject to regular review by the Highland Council, in consultation with SNH, which should initially be on an annual basis. The Highland Council should have the power to amend/restrict the types of devices used and how they are used.

The appraisal we carried out considered the impact of the proposals on the following factors:

- Subsequent to EIA scoping the area around the site has been selected as a cSAC for harbour porpoise. An overview of the sightings and modelling data used to inform cSAC selection is available at: <http://www.snh.gov.uk/docs/A1918277.pdf> . This demonstrates that Sound of Raasay is an important part of the cSAC for harbour porpoise.
- The hearing range of harbour porpoise includes the sound frequencies emitted by the proposed ADD model. The use of ADDs may result in disturbance/habitat exclusion. The evidence of impacts on cetaceans from ADDs currently in use is varied and is dependent on many variables (e.g. noise characteristics of device, how the device is used, the topography, animal behaviour and importance of the area/habitat where the ADD is being used). However, the quoted sound output for the proposed device and the topography of the area suggests that it is likely to be audible across a large part of the Sound of Raasay. Disturbance is likely in a smaller (but nevertheless significant) area around each device.
- Sound of Raasay has a number of other fish farms which currently use, or have the option to use, ADDs in an unregulated manner. Working with industry, we are currently undertaking a review of ADD use within the cSAC. This will determine the level of ADD noise emission currently in operation and whether further constraints should be considered.

- In the meantime we consider that it is important to minimise additional noise inputs into the cSAC, monitor the usage of ADDs and have in place a mechanism to address any issues arising from ADD usage at the proposed farm, by itself or in combination with existing farms in the area. It is also important that the Council retains the opportunity to influence best practice, such as better acoustic targeting to seals, in order to reduce overall noise levels in the future.
- Deployment of secondary anti-predator nets has been quoted as a possibility. Such nets are unlikely to present a significant entanglement risk if correctly deployed and properly tensioned.
- Gill nets such as those used in recapturing escaped fish do present an entanglement hazard. However we would expect Marine Scotland to take porpoise into account in deciding whether to grant approval for the use of such nets at this site.

You may wish to carry out further appraisal before completing the appropriate assessment.

Other cetacean species also use Sound of Raasay, particularly Bottlenose dolphin. All cetaceans are European Protected Species. Similar issues regarding disturbance/habitat exclusion apply to those species and effects on them would also be mitigated by the measures outlined above.

2. Priority Marine Features and benthic impacts

Priority Marine Features (PMFs) are marine habitats and species considered by SNH, JNCC and Scottish Government to be of particular conservation importance in Scotland's seas.

We have reviewed both the 2013 and 2015 benthic video transect footage. Taken together these cover the depositional zone of the proposed farm and a sufficient buffer around the edge to provide some context. The quality of the video footage is adequate to assess the relatively simple and uniform biotopes present at this site.

The majority of the shallower parts of the site comprise muddy sand with typical species: tower shells (*Turritella communis*) being the most obvious and abundant. The habitats become muddier and the density of burrows increases as the depth increases, with squat lobster (*Munida rugosa*) and prawns (*Nephrops norvegicus*) more abundant. The proposed site is located at the outer edge of Loch Portree and a steep drop-off into Sound of Raasay is evident in the 2015 transects, at around 60m depth. Below the cliffs (outside Loch Portree) the habitats are uniform well burrowed mud. Extensive dredge/trawl marks are visible and vary in prominence, suggesting that this area is regularly fished.

The mud habitats are examples of the PMF 'Burrowed mud'. The species observed are typical of this habitat and none of the rarer component biotypes on the adopted PMF list (<http://www.snh.gov.uk/docs/A1327320.pdf>) were observed.

A small amount of seagrass was recorded at the inshore end of transect 4, occurring in a narrow band at around 3m depth. The individual plants are small and sparsely distributed. Seagrass beds are also a PMF habitat and it may be more

widely distributed along this shoreline. However, the benthic report suggests it would be outside the AZE and it is not a high quality example of the habitat.

It is likely that Northern sea fan *Swiftia pallida* is also present (but rare) on boulders and rock at this site, although it was not possible to confirm identification based on the video footage provided. Northern sea fan and sponge communities are also a PMF. Based on the information available we expect there to be areas of similar or better quality present elsewhere within Loch Portree and in the Sound of Raasay.

Considering the extent, sensitivity and quality of the PMF habitats that are likely to be affected, we advise that the proposals do not raise any issues of national interest.

3. Landscape and visual impacts

The proposed fish farm lies within Trotternish and Tianavaig Special Landscape Area. The landscape of Portree bay is specifically mentioned in the Special Qualities identified for this site. Views from the Scorrybreac coastal path, Ben Chracaig, and the summit of Ben Tianavaig are particularly important for locals and visitors alike.

A full Landscape and Visual Impact Assessment has been carried out by chartered landscape architects as requested. The supporting information includes an assessment of visibility and a series of photomontages representative of the main sensitive receptors. These are high quality and appear to accurately represent the proposals. The consultant's summary of the effects on the individual LVIA components appears plausible and we agree that they have identified the most significant landscape and visual effects. These include the views from Ben Chracaig, Torvaig (and the Skye Trail in that area) and cruise boats at anchor. We agree that these effects are localised but note that they will be experienced by relatively large numbers of people. It is for you to weigh up the importance of the issues raised in the context of your own policies.

Further comments are provided in annex 1.

Conclusion

This proposal will affect features of international importance but we consider that it could be progressed subject to appropriate planning conditions. If the planning authority intends to grant planning permission against our advice without the suggested changes/mitigation, you must notify Scottish Ministers.

If you would like clarification or any further advice regarding this case please contact Alex Turner in our Portree office on 01470 612625 or alex.turner@snh.gov.uk.

Yours sincerely,

George Hogg
Area Manager, South Highland Area

ANNEX 1 - APPRAISAL OF LANDSCAPE AND VISUAL IMPACTS

LANDSCAPE CHARACTER

In this case the proposed location and layout appears compatible with the landscape character and SNH guidance. The proposal has a simple linear design with a horizontal emphasis. Although the existing and proposed cages would not align with each other they would align with, and relate to, the dominant coastal edge along the northern shore of the loch. The combined farm would remain inferior in scale to the loch and the dominance of the open water and visual movement up and down the loch would be maintained. The scale of the surrounding cliffs and slight elevation of the viewpoints closest to the farm mean that the height of the top nets and feed barge are unlikely to be a significant issue. Activity at the farm would appear consistent with the general bustle and activity of Portree Bay.

VISUAL IMPACTS

The new farm would visually read as an extension to the existing farm. The combined development would be a prominent feature in the landscape. Unfortunately the developer has not taken the opportunity to consider the layout of both farms in their entirety, in particular the gap in the existing farm layout.

Views from the water – VPs 7 & 8

These low-angle viewpoints show that both the existing and proposed fish farms are often back-clothed by the adjacent coastline. Even when they are not, the scale of both layouts is inferior to the expanse of water in outer Loch Portree and diminished further by the significant height of the adjacent cliffs and open seascape across the Sound of Raasay. However the red colour of the current cage nets attracts attention: this could be addressed via conditions but that is for you to consider in the context of your policies. We agree with the LVIA assessment that visual impacts from taller boats such as cruise ships will be notably greater and this will be particularly true when the ships are stationary at anchor.

Bench adjacent to Sgeir Mhor on Scorrybreac footpath – VP1

The offset alignment of the two cage groups are obvious from the viewpoint and create visual confusion because the logic behind the alignment is not immediately obvious. However, the farm is viewed from a low angle and there are wide views from this viewpoint, both inland and out to sea so the dominance of the open water should be maintained. The farm is clearly related to the northern shore of the loch and both cage groups appear to be contained within the bay by Rubha na h-Airde Glaise.

Views from Ben Chracaig and the Torvaig track – VPs 2 & 3

The farm is highly prominent from these viewpoints. The proposed and existing layouts align reasonably well with the dominant coastal edge. The curve in alignment of the cages appears to relate to the shelter of the adjacent cliffs rather than projecting into the open water of the Sound of Raasay. Even at this close proximity the dominance of the open water and lines of movement along the length of the loch are maintained.

Ben Tianavaig – VP6

360 degree panoramic views are a key feature of this viewpoint and as a result the effect of the development would be less significant than from the previous viewpoints. Although large, the proposed layout remains subordinate in scale to Loch Portree. It should appear well aligned with the northern shore of the loch. It appears to be sited within Loch Portree rather than spilling out into the Sound of Raasay.



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Argyll and Bute Council
Planning Services
Municipal Buildings
Albany Street
Oban
PA34 4AW

FAO: Richard Kerr

8th March 2017

You ref: 16/03407/MFF

Dear Mr Kerr,

**TOWN & COUNTRY PLANNING (SCOTLAND) ACT 1997
RE-EQUIPMENT OF AN EXISTING MARINE FISH FARM AT PORT NA CROE, ISLE OF
SHUNA FROM 8 24 X 24M SQUARE PENS TO 4 120M CIRCUMFERENCE ROUND
CAGES, INSTALLATION OF FEED BARGE AND ENLARGED MOORING AREA**

Further to our letter of 9th February and following receipt of the "PNC ADD Deployment Strategy" from Marine Harvest please find below updated comments on the above proposal.

Appraisal of the impacts of the proposal and advice

Inner Hebrides and the Minches candidate Special Area of Conservation

The proposal lies within the Inner Hebrides and the Minches candidate Special area of Conservation (cSAC) selected for its harbour porpoise interest. The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") or, for reserved matters the Conservation of Habitats and Species Regulations 2010 as amended apply. Consequently, Argyll and Bute Council is required to consider the effect of the proposal on the cSAC before it can be consented (commonly known as Habitats Regulations Appraisal). The SNH website has a summary of the legislative requirements (<http://www.snh.gov.uk/docs/A423286.pdf>).

From the information available, it appears that in this case the proposal is not connected with or necessary for the conservation management of the site. Hence, further consideration is required.

In our view, it is unlikely that the proposal will have a significant effect on any qualifying interests either directly or indirectly. An appropriate assessment is therefore not required.

We have come to this conclusion because the applicant has stated that they will follow best practice for Acoustic Deterrent Device (ADD) use and will only use an ADD of lower volume (around 179 dB re 1µPa rms) in comparison to some other ADDs on the market (192/193 dB re 1µPa rms). The lower volume means that the area over which harbour porpoise may be

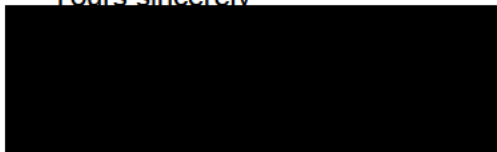
Scottish Natural Heritage, Cameron House, Albany Street, Oban, Argyll PA34 4AE
Tel: 0300 244 9360 www.snh.org.uk

Dualchas Nàdair na h-Alba, Taigh Chamshron, Sràid Albany, An t-Òban, Earra- Ghàidheal PA34 4AE
Fòn: 0300 244 9360 www.snh.org.uk

disturbed or displaced is such that Shuna Sound will not be acoustically blocked to the passage of harbour porpoise.

If you would like any further advice regarding this case please contact Jane Dodd in our Oban office on 0300 2449360 or jane.dodd@snh.gov.uk.

Yours sincerely



Jane Dodd
Operations Officer – Marine, Argyll and the Outer Hebrides

Model wording – Appraisal

The proposal lies within Inner Hebrides and the Minches candidate Special Area of Conservation (cSAC) selected for its harbour porpoise. The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") or, for reserved matters the Conservation of Habitats and Species Regulations 2010 as amended apply. Consequently, The Highland Council is required to consider the effect of the proposal on the cSAC before it can be consented (commonly known as Habitats Regulations Appraisal). The SNH website has a summary of the legislative requirements (<http://www.snh.gov.uk/docs/A423286.pdf>).

5b. Likely significant effect but information provided/assessment already carried out shows that the effect on integrity can be avoided with changes/ mitigation

C. Conditioned objection

Summary

This proposal could be progressed with appropriate changes/mitigation. However, because it could affect internationally important natural heritage interests, **we object to this proposal unless it is made subject to conditions so that the works are done strictly in accordance with the changes/mitigation detailed in our appraisal below.**

Appraisal

In our view, this proposal is likely to have a significant effect on harbour porpoise within Inner Hebrides and the Minches cSAC. Consequently, The Highland Council is required to carry out an appropriate assessment in view of the site's conservation objectives for its qualifying interest. To help you do this, we advise that in our view on the basis of the information provided, if the proposal is undertaken strictly in accordance with the following changes/mitigation then the proposal will not adversely affect the integrity of the site:

- If ADDs are used which are within the hearing range of harbour porpoise they must be devices which are only triggered by the presence of predators. They should not sound continuously or be set to intermittent unless agreed in writing by the Highland Council.
- For each device deployed, an accurate record should be kept by the operator of dates when the devices are operating, how often they sound and for what duration. A description should be provided of the noise profile of the devices when they are sounding.
- The use of ADDs should be subject to regular review by the Highland Council, in consultation with SNH, which should initially be on an annual basis. The Highland Council should have the power to amend/restrict the types of devices used and how they are used.
- If secondary anti-predator nets are proposed this must be agreed in advance with THC in consultation with SNH.

The appraisal we carried out considered the impact of the proposals on the following factors:

- Subsequent to completion of EIA scoping the area around the site has been selected as a cSAC for harbour porpoise. An overview of the sightings and modelling data used to

Comment [AT1]: Not sure if we need this? Can we assume that Marine Scotland will take the cSAC into consideration if the use of gill nets is proposed in the event of an escape?

inform cSAC selection is available at: <http://www.snh.gov.uk/docs/A1918277.pdf> This demonstrates that Sound of Raasay is an important part of the cSAC for harbour porpoise.

- The hearing range of harbour porpoise includes the sound frequencies emitted by the proposed ADD model. The use of ADDs may result in disturbance/habitat exclusion. The evidence of impacts on cetaceans from ADDs currently in use is varied and is dependent on many variables (e.g. noise characteristics of device, how the device is used, the topography, animal behaviour and importance of the area/habitat where the ADD is being used). However, the quoted sound output for the proposed device and the topography of the area suggests that it is likely to be audible across a large part of the Sound of Raasay. Disturbance is likely in a smaller (but nevertheless significant) area around each device.
- Sound of Raasay has a number of other fish farms which currently use, or have the option to use, ADDs in an unregulated manner. Working with industry, we are currently undertaking a review of ADD use within the cSAC. This will determine the level of ADD noise emission currently in operation and whether further constraints should be considered.
- In the meantime we consider that it is important to minimise additional noise inputs into the cSAC, monitor the usage of ADDs and have in place a mechanism to address any issues arising from ADD usage at the proposed farm, by itself or in combination with existing farms in the area. It is also important that the Council retains the opportunity to influence best practice in order to reduce the overall noise levels in the future.
- Deployment of secondary anti-predator nets has been quoted as a possibility. Such nets present an entanglement hazard if deployed incorrectly. Gill nets such as those used in recapturing escaped fish also present an entanglement hazard. However we would expect Marine Scotland to take porpoise into account in deciding whether to grant approval for the use of such nets at this site.

Comment [AT2]: Do we need this?

You may wish to carry out further appraisal before completing the appropriate assessment.”

Suggested wording regarding the ‘status’ of the response (Planning applications only)

If the planning authority intends to grant planning permission against this advice without the suggested changes/mitigation, you must notify Scottish Ministers.

HABITATS REGULATIONS APPRAISAL PROFORMA

This proforma should be used to record SNH's Habitats Regulations Appraisal when SNH is a competent authority. It should also be used to record SNH's appraisal of a plan or project when SNH is providing advice to a competent authority.

The proforma is available in an [electronic form](#) on the SNH Dashboard. The Dashboard version is particularly suited to dealing with more straightforward Natura casework.

NB: There is orange text in some of the boxes: this is summary guidance, and is included for convenience. Reference to the main text of the Natura Casework Guidance should be made where clarification is needed. The orange text should be deleted as the proforma is completed.

APPRAISAL IN RELATION TO REGULATION 48 OF THE CONSERVATION (NATURAL HABITATS, &C.) REGULATIONS 1994 AS AMENDED¹ (HABITATS REGULATIONS APPRAISAL)

Casework Management System Ref.

NATURA SITE DETAILS

Name of Natura site(s) potentially affected:

Inner Hebrides and the Minches cSAC (Candidate SAC - submitted to EC)

Name of component SSSI if relevant:

N/A

Natura qualifying interest(s) & whether priority/non-priority:

Harbour porpoise

Conservation objectives for qualifying interests:

The conservation objectives of the site are:

1. To maintain site integrity and ensure the site continues to make a contribution to harbour porpoise remaining at favourable conservation status in UK waters.
2. To avoid significant killing, injury, or disturbance of harbour porpoise.
3. To maintain the habitat and prey of harbour porpoise in favourable condition.

STAGE 1: WHAT IS THE PLAN OR PROJECT?

Proposal title:

Portree Outer fish farm planning application

Name of consultee:

The Highland Council

Name of competent authority:

The Highland Council

Details of proposal (inc. location, timing, methods):

The Portree Outer development comprises 10 x 120m circumference (38m diameter) cages arranged in one group of 5 x 2 cages. The cage grid spacing is 80m x 80m. The

¹ Or, where relevant, under regulation 61 of The Conservation of Habitats and Species Regulations 2010 as amended, or regulation 25 of The Offshore Marine Conservation (Natural Habitats, &c.) Regulations 2007 as amended.

proposed site will lie circa. 500m east of the existing fish farm (Torvaig) in Loch Portree and will share a feed barge with the existing site. The existing farm was granted planning permission for the current configuration (also 10 x 38m diameter cages) in December 2013 (13/02678/FUL).

The Site-specific predator control plan and ES state:

- The anti-predation devices in the following document will be reviewed annually by the site manager and area manager to assess their effectiveness, if found to be unnecessary or ineffective, the appropriate actions will be taken to remedy the situation
- Mortalities are removed by a Lift-Up system although manual removal of mort and moribund fish is also completed as required.
- Scottish Salmon Company typically employs a net tensioning system rather than external predator nets to deter seal predation. Seal Blinds may also be used.
- It is not common practice for SSC to use anti-predator nets, as there is a high risk of entanglement to diving birds and mammals. However, SSC may consider using these nets in certain circumstances. The site manager will consult with the regional manager prior to deploying these nets.
- SSC proposes to reduce the 'duty cycle' and only use triggered ADDs.
- The ADDs proposed will be the OTAQ SealFENCE 2 System, which is currently installed at the existing Portree (Torvaig), to deter a seal attack. The Signal is a 10kHz gated sine wave with Bandwidth 1kHz and the Sound level is 198dB re 1uPa@ 1m. The device will be implemented when site staff note high risk seal activity within the vicinity of the site. A log will be kept of the incidence of attack, and timings and duration of the ADD activation, to be assessed by the site and regional managers annually to determine usage. If ADDs are used at the site, in order to minimise any potential interaction with cetaceans, SSC will only use these devices when deemed necessary. Also, they will not be used indiscriminately and will be trigger operated (therefore limiting the duration of impact). These triggered ADDs are only activated when fish become agitated by the presence of a predator and bump into the trigger units.
- The plan also contains details of trigger mechanisms prior to ADD deployment and utilisation. A log will be kept of the incidence of attack, and timings and duration of the ADD activation, to be assessed by the site and regional managers annually to determine usage.
- Porpoise are also noted within the site logbook of the adjacent Portree (Torvaig) site. Porpoises are noted up to three times on average through the summer, and on each occasion they can remain in the area for a week at a time. Such sightings confirm that fish farming operations have coexisted for many years with populations of porpoise. This is the same ADD as is used on the existing Portree Outer site, and its current use does not deter existing populations of porpoise. Thus, the use of the same ADD on the proposed Portree Outer site is not considered to present a negative effect porpoise populations known to frequent the local waters around Portree and Skye.

Comment [AT1]: No external input – decisions made entirely within the company

Comment [AT2]: No external input – decision made entirely within the company

Comment [AT3]: Not clear what the duty cycle is?

Comment [AT4]: This appears to be similar to the Airmar/MAG/Ace Aquatec devices. Need to ask Caroline to check manufacturers website to confirm.

Comment [AT5]: Not clear from website that these devices can be triggered.

Comment [AT6]: Fits in with requested condition

Comment [AT7]: Not very convincing!

STAGE 2: IS THE PLAN OR PROJECT DIRECTLY CONNECTED WITH OR NECESSARY TO SITE MANAGEMENT FOR NATURE CONSERVATION?

The following points should be considered:

- Has the effect on all qualifying interests been considered?
- Is the proposal part of a fully assessed and agreed management plan?
- Is there a clear rationale to justify the connection with the conservation objectives?

- iv) If there is a clear connection with the conservation objectives will any benefits arising from the proposal outweigh any negative effects?
- v) Have any alternative methods of implementing the proposal been explored to demonstrate that this is the least damaging option?
- vi) Give a YES/NO conclusion in terms of whether the plan or project is considered directly connected with or necessary to site management for nature conservation.
- If **YES** for all elements of a plan or project, for all the Natura qualifying interests (preferably as part of a fully assessed and agreed management plan), then consent can be issued. The rationale should be detailed below and no further appraisal is required (no need to proceed to stage 3 or 4).
 - If **No** for all Natura qualifying interests then proceed to stage 3.
 - **If a plan has multiple elements (e.g. a range of policies or management objectives)**, elements of the plan considered directly connected with or necessary to site management for nature conservation should be discussed below and a rationale given for this conclusion. No further appraisal is then required for those elements. All other elements of the plan must proceed to stage 3.

No. The proposals are not directly connected with or necessary to site management for nature conservation.

STAGE 3: IS THE PLAN OR PROJECT (EITHER ALONE OR IN COMBINATION WITH OTHER PLANS OR PROJECTS) LIKELY TO HAVE A SIGNIFICANT EFFECT ON THE SITE?

Each qualifying interest should be considered in relation to their conservation objectives. The following points should be considered:

- i) Briefly indicate which qualifying interest could be affected by the proposal and how; if none, provide a brief justification for this decision, and then proceed to v), otherwise continue:
 - ii) refer to other plans/projects with similar effects/other relevant evidence;
 - iii) consider the nature, scale, location, longevity, and reversibility of effects;
 - iv) consider whether the proposal contributes to cumulative or incremental impacts in combination with other plans or projects completed, underway or proposed;
 - v) Where the impacts of a proposal are the same for different qualifying interests these can be considered together however a clear conclusion should be given for each interest
 - vi) give Yes/No conclusion for each interest.
- **If yes, or in cases of doubt**, continue to stage 4.
 - **If potential significant effects can easily be avoided**, record modifications required below.
 - **If no for all features**, a consent or non-objection response can be given and recorded below (although if there are other features of national interest only, the effect on these should be considered separately). There is no need to then proceed to stage 4.

Yes, the Site Specific Predator Control Plan includes the possible use of ADDs and anti-predator nets. ADDs may cause hearing damage at close proximity and habitat exclusion/displacement. The Sound of Raasay is a narrow water body with existing fish farms which utilize ADDs so there are likely to be both individual and cumulative impacts.

The following text is included for guidance but should be deleted once considered as is not part of the audit trail

The test of Likely Significant Effect (LSE) is a simple screening stage to determine whether or not an appropriate assessment is required. **Keep as brief as possible** and deal with similar interests together wherever possible to avoid repetition.

Consider whether there is connectivity between the proposal and any of the qualifying interests i.e. are there processes or pathways by which the proposal may influence the site's interests? Conclude no LSE only if there is no connection, or it is obvious that the proposal will not undermine the conservation objectives despite a connection. The potential for negative effects on the qualifying interests may be immediately obvious, in which case conclude likely significant effect and move straight to the next step.

Types of effects which **in all cases** are likely to be significant and indicate an obvious need for appropriate assessment include:

- Causing reduction in the area of habitat or of the site.
- Causing direct or indirect change to the physical quality of the environment, hydrology or habitat within the site.
- Causing ongoing disturbance to qualifying species or habitats.

Refer to any advice obtained.

If there is not a clear cut case for concluding either LSE or no LSE, it may be possible to clarify by seeking basic additional information. For example, if the timing of a proposal is unknown but crucial to the determination of its effects, this fact might easily be obtained. However, if more detailed information or complex analysis is required, such an appraisal should not be included in the consideration of LSE; instead it should form part of the appropriate assessment stage.

If in doubt about LSEs but the potential exists, conclude likely significant effect and move to the appropriate assessment stage (stage 4).

Mitigation or modifications required to avoid a likely significant effect & reasons for these:

Mitigation:

Reason:

STAGE 4: UNDERTAKE AN APPROPRIATE ASSESSMENT OF THE IMPLICATIONS FOR THE SITE IN VIEW OF ITS CONSERVATION OBJECTIVES

(It is the responsibility of the competent authority to carry out the appropriate assessment. The competent authority must consult SNH for the purposes of carrying out the appropriate assessment. SNH can provide advice on what issues should be considered in the appropriate assessment, what information is required to carry out the assessment, in some circumstances carry out an appraisal to inform an appropriate assessment and/or provide comments on an assessment carried out. Where we are providing advice to a competent authority our appraisal of the proposal should be recorded here.)

The following points should be considered:

- Describe for each qualifying interest the potential impacts of the proposal detailing which aspects or effects of the proposal could impact upon them and their conservation objectives.*
- Evaluate the potential impacts, e.g. whether short/long term, reversible or irreversible, and in relation to the proportion/importance of the interest affected, and the overall effect on the site's conservation objectives. This should be in sufficient detail to ensure all impacts have been considered and sufficiently appraised. Record if additional survey information or specialist advice has been obtained.*
- Each conservation objective should be considered and a decision reached as to whether the proposal will affect achievement of this objective i.e. whether the conservation objective will still be met if the proposal is consented to.*

All the potential impacts relate to conservation objective 2 - To avoid significant killing, injury, or disturbance of harbour porpoise.

Killing

The **Site-specific predator control plan** and ES state

- *It is not common practice for SSC to use anti-predator nets, as there is a high risk of entanglement to diving birds and mammals. However, SSC may consider using these nets in certain circumstances. The site manager will consult with the regional manager prior to deploying these nets.*

In addition the **Escapes Contingency Plan** includes the option of using gill nets to recapture escaped fish. It notes that *'permission to use gill nets in an attempt to capture escapee farmed fish must be sought from Marine Scotland and the local DSFB.*

Once permission to deploy gill nets has been granted, SSC will seek advice on how the nets are to be deployed from the local Fisheries Trust and DSFB. Nets will be deployed and manned during daylight hours and will cease when no farmed stock has been caught for 48 hours, or when otherwise directed by the DSFB. If any wild salmonids are caught, fishing effort will immediately cease and any decision to continue this method of recapture will be the responsibility of the local DSFB.

The prospect of gill nets being deployed is low and they will be manned and only used during daylight hours, so could be taken in if cetaceans were sighted in the area. **Our judgement is that the risk of killing or injury is therefore not significant. However, the need to take the presence of cetaceans into account in any decision to deploy gill nets should be highlighted in our planning response.**

The Site-specific predator control plan states that:

'The anti-predation devices in the following document will be reviewed annually by the site manager and area manager to assess their effectiveness, if found to be unnecessary or ineffective, the appropriate actions will be taken to remedy the situation'

Mortalities are removed by a Lift-Up system although manual removal of mort and moribund fish is also completed as required.

Scottish Salmon Company typically employs a net tensioning system rather than external predator nets to deter seal predation. Seal Blinds may also be used.

It is not common practice for SSC to use anti-predator nets, as there is a high risk of entanglement to diving birds and mammals. However, SSC may consider using these nets in certain circumstances. The site manager will consult with the regional manager prior to deploying these nets.

SSC proposes to reduce the 'duty cycle' and only use triggered ADDs.

The ADDs proposed will be the OTAQ SealFENCE 2 System, which is currently installed at the existing Portree (Torvaig), to deter a seal attack. The Signal is a 10kHz gated sine wave with Bandwidth 1kHz and the Sound level is 198dB re 1uPa@ 1m. The device will be implemented when site staff note high risk seal activity within the vicinity of the site. A log will be kept of the incidence of attack, and timings and duration of the ADD activation, to be assessed by the site and regional managers annually to determine usage. If ADDs are used at the site, in order to minimise any potential interaction with cetaceans, SSC will only use these devices when deemed necessary. Also, they will not be used indiscriminately and will be trigger operated (therefore limiting the duration of impact). These triggered ADDs are only activated when fish become agitated by the presence of a predator and bump into the trigger units. The plan also contains details of trigger mechanisms prior to ADD deployment and utilisation. A log will be kept of the incidence of attack, and timings and duration of the ADD activation, to be assessed by the site and regional managers annually to determine usage.

Porpoise are also noted within the site logbook of the adjacent Portree (Torvaig) site. Porpoises are noted up to three times on average through the summer, and on each occasion they can remain in the area for a week at a time.

Such sightings confirm that fish farming operations have coexisted for many years with populations of porpoise. The proposed ADD for Portree Outer is a SealFENCE 2 System which has a signal comprising a 10kHz gated sine wave. It has a Bandwidth of 1kHz and a Sound level of 198dB re 1uPa@ 1m. This is the same ADD as is used on the existing Portree Outer site, and its current use does not deter existing populations of porpoise. Thus, the use of the same ADD on the proposed Portree Outer site is not considered to present a negative effect porpoise populations known to frequent the local waters around Portree and Skye.

The following text is included for guidance but should be deleted once considered as is not part of the audit trail

An '*appropriate assessment*' consists of two parts: a scientific, reasoned **appraisal** (stage 4) and a **conclusion** (stage 5). Consider the proposed plan/project, its impact on the qualifying interests assessed against their conservation objectives, and take account of any possible in combination effects with other plans or projects.

Identify the **potential impacts on**, and likely consequences for the conservation objectives of the qualifying interests.

- For each impact assess the **probability** of it undermining the conservation objectives.
- For each impact assess the **magnitude, duration & reversibility** of the effects.
- Consider mitigation proposed and its potential to be effective in removing or reducing impacts.
- Record any assumptions made and evidence or advice used.

You should give sufficient detail to allow you to conclude whether the plan or project **will not adversely affect site integrity for the qualifying interests of the Natura site** – or otherwise. It need not be complex, particularly where the impacts are clear. It is essential, however, that the assessment should be fully reasoned, and any decisions arrived at clearly recorded along with reference to any advice obtained.

Where an EIA or SEA has been undertaken under other legislation, it can inform the appraisal component of *appropriate assessment*. It is however a **Competent Authority (CA)** that must always reach a formal conclusion as to whether there are no adverse effects from the proposal on *site integrity*, for an *appropriate assessment* to be complete.

STAGE 5: CAN IT BE ASCERTAINED THAT THE PROPOSAL WILL NOT ADVERSELY AFFECT THE INTEGRITY OF THE SITE?

In the light of the appraisal, ascertain whether the proposal will not adversely affect the integrity of the site for the qualifying interests. Conclusions should be reached beyond reasonable scientific doubt. If more than one SAC and/or SPA is involved, give separate conclusions. If mitigation or modifications are required, detail these below.

The following text is included for guidance but should be deleted once considered as is not part of the audit trail

Conclude whether it can be ascertained that **site integrity** will not be adversely affected.

If SNH is the CA (e.g. for Operations Requiring Consent on a SSSI) a final conclusion can be stated – otherwise briefly state what our advice to the CA is – e.g. **“SNH considers that it has not been ascertained that the proposal will not adversely affect the integrity of the site”**

Mitigation or modifications required to ensure adverse effects are avoided, & reasons for these.

Mitigation:

Reason:

ADVICE SOUGHT

Include here details of or clear reference to, advice sought from PAD staff, Natura team, Ops staff, Area colleagues etc. If no advice sought, give brief reasons/justification.

CONCLUSION/ADVICE IN RELATION TO PLAN OR PROJECT

When SNH is the competent authority

In view of the appraisal above outline below whether the plan or project can be consented/approved/undertaken.

When SNH is advising the competent authority

In view of the appraisal above outline below the corresponding Natura model response position that will be used when advising the competent authority. Also include the response type from the [Development Management and the Natural Heritage](#) guidance as appropriate (see [Development Management and the Natural Heritage](#), Annex 2, Table 1 and guidance in Annex 3 of the Natura Casework Guidance)

Natura model response position:

Enter the response from the appropriate model response type

Development management response type:

Enter the response type from the Development Management and the Natural Heritage guidance as appropriate

Appraised by	
Date	
Checked by	It is recommended that the proforma is checked by an appropriate member of staff e.g. the relevant Operations Manager, particularly when cases are complex or contentious, or where the appraiser is relatively inexperienced.
Date	



Scottish Natural Heritage Dualchas Nàdair na h-Alba

All of nature for all of Scotland
Nàdar air fad airson Alba air fad

The Highland Council
Tigh-na-Sgìre
Park Lane
Portree
IV51 9GP

FAO: Shona Turnbull

Date: 28 July 2017

Your ref: 17/02430/FUL

Dear Shona,

Marine Fish Farm - Increase moorings and site area of existing fish farm 14/01595/FUL (no changes to equipment), Ru Chorachan, nr Uig, Isle of Skye Town and Country Planning (Scotland) Act 1997

Thank you for your consultation dated 20 June regarding the above proposal and for the supplementary information we received on 24 July 2017.

Summary

There are natural heritage interests of international importance at this the site, but in our view, these will not be adversely affected by the proposal.

Background

This application is to install longer moorings at an existing marine fish farm. The inshore moorings would extend into the intertidal. All other equipment and details are unchanged.

We responded to application 14/0595/FUL in July 2014. Since that time the Inner Hebrides and the Minches candidate Special Area of Conservation (cSAC) has been proposed. You requested additional information from the applicant regarding installation of the inshore moorings and the use of Acoustic Deterrent Devices (ADDs) at this site.

Appraisal of the impacts of the proposal and advice

Inner Hebrides and the Minches cSAC

The proposal lies within Inner Hebrides and the Minches candidate Special Area of Conservation (cSAC) selected for its harbour porpoise. The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") or, for reserved matters the Conservation of Habitats and Species Regulations 2010 as amended apply. Consequently, The Highland Council is required to consider the effect of the proposal on the cSAC before it can be consented (commonly

known as Habitats Regulations Appraisal). The SNH website has a summary of the legislative requirements (<http://www.snh.gov.uk/docs/A423286.pdf>).

In our view, this proposal is likely to have a significant effect on harbour porpoise within the site. Consequently, The Highland Council is required to carry out an appropriate assessment in view of the site's conservation objectives for its qualifying interest.

To help you do this we advise that, in our view, based on the information provided to date, the proposal will not adversely affect the integrity of the site. The appraisal we carried out considered the impact of the proposals on the following factors:

- There is a low risk of entanglement for harbour porpoise from aquaculture infrastructure including the longer moorings.
- There is likely to be some increase in marine noise arising from fixing the inshore moorings. Holes will be hand drilled into the intertidal rock at low tide and the rock pins will be grouted into place. The small scale of the works, drilling being carried out in air on the exposed intertidal and the short duration mean that the level of noise and associated disturbance is unlikely to be significant.
- Use of ADDs at aquaculture sites is one of the activities considered likely to affect harbour porpoise. No changes are proposed to the ADDs that are currently used at this site.
- The applicant is using the Ace Aquactec US3. The noise output characteristics of this device are such that disturbance/displacement of harbour porpoise is possible. However the applicant has committed to using triggered devices so they will not sound continuously. They have also integrated appropriate feedback loops into their predator control measures to ensure that ADD use is minimised.
- We have published a document entitled '*Inner Hebrides and the Minches proposed SAC - Advice to support management*' - <http://www.snh.gov.uk/docs/A1918723.pdf> . This includes the draft conservation objectives and provides an overview of existing activities considered likely to affect harbour porpoise.

You may wish to carry out further appraisal before completing the appropriate assessment. We advise that you consider whether it is necessary to condition the use of ADDs at this site. This may include conditions to ensure that:

- The ADD devices and the way they are used are as described by the applicant. Any changes should be agreed in writing by the Highland Council.
- For each device deployed, a detailed record should be kept by the operator of the cue for deployment, dates when the devices are operating, how often they sound and for what duration. Information should be provided of the noise profile of the devices when they are sounding.
- The use of ADDs should be subject to regular review by the Highland Council, in consultation with SNH. The Highland Council should have the power to amend/restrict the types of devices used and how they are used. This is to allow for implementation of best practice as new devices and research become available.

Other comments

Regarding Ascrib, Isay and Loch Dunvegan SAC we maintain our previous advice that there will be no likely significant effect on common seals.

We advised that Priority Marine Feature (PMF) habitats were unlikely to be present when we reviewed the benthic video footage submitted with the original application. That footage did

not extend throughout the new mooring area. However it is very unlikely that a development of this scale will have any impacts of national importance on PMFs.

This site remains within a White-tailed eagle territory. However this is an existing site and so the birds will be used to activity at the fish farm. There are unlikely to be significant impacts on this pair arising from extending the moorings.

Please let me know if you wish to discuss any aspect of this response.

Yours sincerely,

Alex Turner

Area Officer, Skye and Lochalsh



Scottish Natural Heritage Dualchas Nàdair na h-Alba

All of nature for all of Scotland
Nàdar air fad airson Alba air fad

Director of Planning and Development
The Highland Council
Glenurquhart Road
Inverness
IV3 5NX

FAO: Shona Turnbull

Your ref: 17/02707/FUL

Date: 6 October 2017

Dear Shona,

**TOWN & COUNTRY PLANNING (SCOTLAND) ACT 1997
NEW FISH FARM SITE CONSISTING OF 12 X 120M CIRCUMFERENCE
CIRCULAR CAGES PLUS FEED SYSTEM
SITE 2130M EAST OF SCONSER QUARRY, SCONSER, ISLE OF SKYE**

Thank you for your consultation on the above proposal.

Summary

The proposed development lies within an area of international importance for harbour porpoise. In our view, assuming that the proposed mitigation is implemented, harbour porpoise will not be adversely affected by the proposals. We recommend that you consider whether it is necessary to condition the proposals to ensure this.

Background

The original Environmental Statement and supporting information did not adequately address the points we raised in our EIA scoping response regarding harbour porpoise. We had detailed discussions with the applicant in July 2017 regarding Acoustic Deterrent Devices (ADDs) and their possible usage at the new fish farm site, as well as considering cumulative effects arising from existing ADD use at the adjacent MHS fish farm sites. We updated you on those discussions in an e-mail dated 25 July 2017.

Appraisal of the impacts of the proposal and advice

1. Inner Hebrides and the Minches candidate Special Area of Conservation

The proposal lies within Inner Hebrides and the Minches candidate Special Area of Conservation (cSAC) selected for its harbour porpoise. The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") or, for reserved matters the Conservation

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of Habitats and Species Regulations 2010 as amended apply. Consequently, The Highland Council is required to consider the effect of the proposal on the cSAC before it can be consented (commonly known as Habitats Regulations Appraisal). The SNH website has a summary of the legislative requirements (<http://www.snh.gov.uk/docs/A423286.pdf>).

In our view, this proposal is likely to have a significant effect on harbour porpoise within Inner Hebrides and the Minches cSAC because ADDs are included as part of the range of predator control measures. Consequently, The Highland Council is required to carry out an appropriate assessment in view of the site's conservation objectives for its qualifying interest. To help you do this we advise that, in our view, based on the information provided to date, the proposal will not adversely affect the integrity of the site. The appraisal we carried out considered the following factors:

- An overview of the sightings and modelling data used to inform cSAC selection is available at: <http://www.snh.gov.uk/docs/A1918277.pdf>. This demonstrates that Caol Mor is an important part of the cSAC for harbour porpoise. Caol Mor connects the Inner Sound and Sound of Raasay which both have very high levels of predicted and observed harbour porpoise activity and Caol Mor is likely to be important for animals moving from one part of the cSAC to another.
- A range of alternative predator control measures will be used before ADDs are considered.
- MHS have proposed exclusively using the Ace Aquactec TR1 ADDs at the Sconser Quarry site (if ADDs are required). The scientific trials for this device have not been completed but based on the currently available information we expect this low frequency transducer to have lower impacts on cetaceans than the US3 currently used on adjacent fish farms.
- The ADD deployment guidance indicates that ADDs will not be used constantly: they will only be turned on when stock mortalities attributed to seals occur. Their use will be reviewed daily by the Site Manager and weekly by the Area Manager. They will be switched off promptly when there are no stock mortalities attributed to seals.
- MHS have committed to maintain a record of the ADD used, settings and deployment dates and to make that information available to SNH and THC (although there is no specific commitment to organising regular meetings).
- MHS operate three other fish farms in the Caol Mor area which currently use, or have the option to use, ADDs. In discussion with SNH and as part of their 'cumulative assessment' document they have committed to: operating their Sconser, Cairidh and Maol Ban sites using the same 'ADD deployment guidance' as at Sconser Quarry; logging and reviewing ADD use; using the TR1 device in preference to the US3 in the first instance. Taken together these measures would be likely to reduce the noise output from the existing farms in comparison with previous production cycles.

We recommend that you consider whether it is necessary to impose conditions to achieve the above mitigation. You may wish to carry out further appraisal before completing the appropriate assessment.

Other cetacean species also use the Caol Mor area, particularly Bottlenose dolphin. All cetaceans are European Protected Species. Similar issues regarding disturbance/habitat exclusion apply to those species and effects on them would also be mitigated by the measures outlined above.

2. Landscape

A Landscape and Visual Impact Assessment has been carried out by chartered landscape architects as requested. The supporting information includes an assessment of visibility and a series of photomontages representative of the main sensitive receptors, including those we recommended in our scoping response. They broadly follow our guidance on '*Visualisations for aquaculture*' and are of a reasonable quality.

The consultant's summary of the effects on the individual LVIA components appears plausible and we agree that they have identified the most significant landscape and visual effects.

We requested that the LVIA consider the impacts of the development from Glamaig which lies within the Cuillin Hills National Scenic Area (NSA). The ZTV suggests that the development will be visible from the NE slopes of Glamaig (An Coileach) and a small part of the summit. No photomontage was produced. However, given the restricted visibility and 3-5km distance to the development we advise that the proposal will not have an adverse effect on the integrity of the NSA or the qualities for which it has been designated

The photomontages highlight the difficulty of achieving good alignment for a farm of this size on a curving coastline. The LVIA correctly highlights the cumulative impacts with existing fish farms (especially Maol Ban which is itself prominent from a number of viewpoints) and a likely perception of a fish farming seascape in some locations. However these are not regionally or nationally designated landscapes, and it is for you to weigh up the importance of the issues raised in the LVIA in the context of your own policies.

3. Benthic / Priority Marine Features (PMFs)

Benthic visual surveys were carried out in January 2017. These appear to have reasonable coverage of the predicted depositional footprint. The quality of the video footage is adequate to assess the biotopes present at this site. The seabed comprises mixed sediments with smaller sections of boulder and bedrock. We advise that the proposals do not raise any issues of national interest regarding PMF habitats or species.

Please let me know if you would like clarification or any further advice regarding this case.

Yours sincerely,

Alex Turner
Area Officer, Skye and Lochalsh
alex.turner@snh.gov.uk



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All of nature for all of Scotland
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Morag Ferguson
Comhairle nan Eilean Siar
Balivanich
BENBECULA
HS7 5LA

Your Ref: 17/00536/FFPA

Our Ref: CNS/MFF/WI/L&H
RM

Date: 12 December 2017

via: planningconsultations-sty@cne-siar.gov.uk

Dear Morag

MODIFICATION TO FISHFARM AT MOL NA CEANAMHOIR, LOCH ODHAIRN, ISLE OF LEWIS. TOWN AND COUNTRY PLANNING (SCOTLAND) ACT 1997

Thank you for your consulting SNH on the above planning application which we received on 25th October 2017. The proposal is to install an additional two 120m circumference cages at the existing marine fishfarm, whilst increasing the maximum stocked biomass from 2285 tonnes to 2800.7 tonnes (+23%). We requested additional information from the Scottish Salmon Company in the form of an ADD Deployment Plan on 28th November.

Summary

The proposal could affect the Inner Hebrides and the Minches candidate Special Area of Conservation (cSAC) selected for its Harbour porpoise interest.

The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended apply. Consequently, Comhairle nan Eilean Siar is required to consider the effect of the proposal on the cSAC before it can be consented (commonly known as Habitats Regulations Appraisal).¹

There are natural heritage interests of international importance likely to be effected, but in our view, these will not be adversely affected by the proposal.

Appraisal

In our view, this proposal is likely to have a significant effect on harbour porpoise of the Inner Hebrides and the Minches candidate Special Area of Conservation (cSAC). Consequently, Comhairle nan Eilean Siar is required to carry out an appropriate assessment in view of the site's conservation objectives.

To help you do this we advise that, in our view, based on the information provided the proposal will not adversely affect the integrity of the site. The appraisal we carried out considered the impact of the proposals as set out below:

¹ See <https://www.nature.scot/professional-advice/planning-and-development/environmental-assessment/habitats-regulations-appraisal-hra> for further information and advice

The draft Conservation Objectives for the site seek to maintain the integrity of the cSAC by ensuring that, among other things, the distribution of harbour porpoise throughout the site is secured by avoiding significant disturbance. The typical frequencies of ADDs are within the hearing range of harbour porpoise which can result in disturbance and/or displacement. In order to determine the impact of the proposal on the site, we asked for a detailed plan that describes their use from The Scottish Salmon Company (TSSC).

TSSC have selected the ACE Aquatec Seal Deterrent System for use at their Mol na Ceanamhoir site in Loch Odhairn. This ADD is triggered manually by the site manager based on a perceived threat to stock on site (if there are seals spotted in close proximity or there is evidence of an increase in fish mortality attributable to seals). Once triggered the ADD will undertake an intermittent 24 hour cycle, before its continued use is reviewed by the site manager. The Ace Aquatec system uses a frequency and source level that is considered to be likely to disturb harbour porpoise (perhaps more so than with other systems). However, given the relatively open topography of the coastline east of Loch Odhairn and the distance of other fishfarm sites likely to be using ADDs, we consider that the disturbance caused will not be significant (in terms of the site's conservation objectives). We would therefore advise that an appropriate assessment could conclude 'no adverse effect on site integrity', provided the deployment plan (as submitted) is adhered to and an accurate log of activity is maintained and made available to the Comhairle and/or SNH upon request. You may wish to carry out further appraisal before completing the appropriate assessment.

I hope you find the above comments useful, however should you wish to discuss the issues raised further, please don't hesitate to contact me.

Yours sincerely

RODDY MACMINN
Operations Officer
Argyll & Outer Hebrides



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All of nature for all of Scotland
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Director of Planning and Development
The Highland Council
Glenurquhart Road
Inverness
IV3 5NX

FAO: Shona Turnbull

Your ref: 17/04735/FUL

Date: 12 January 2018

Dear Shona,

**TOWN & COUNTRY PLANNING (SCOTLAND) ACT 1997
NEW FISH FARM SITE - 12 X 120M CIRCUMFERENCE CIRCULAR PLUS FEED
BARGE
INVERTOTE, TROTTERNISH, ISLE OF SKYE**

Thank you for your consultation on the above proposal.

Summary

- The proposed development lies within an area of international importance for harbour porpoise. In our view, assuming that the proposed mitigation is implemented, harbour porpoise will not be adversely affected by the proposals. We recommend that you consider whether it is necessary to condition the proposals to achieve this.
- The proposal is likely to affect a number of Priority Marine Features (PMFs). Significant impacts on Northern sea fan communities are likely at a regional scale, but would not impact upon the national status of the PMF. Moving the cages north would reduce these impacts.
- The visibility and landscape impacts of the development will be restricted in extent, particularly when viewed from the land. However there will be significant landscape impacts in localised areas which are likely to erode some of the special qualities of the Trotternish and Tianavaig Special Landscape Area.
- The effects of sea lice on wild salmonid populations and associated species should also be considered.
- This proposal will not affect the favourable conservation status of white-tailed eagles on Skye.

It is for you to determine, within the context of its own policies, whether conditions are necessary to secure the mitigation set out below.

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Background

We provided pre-application advice on this proposal in March 2017 and EIA scoping advice in June 2017.

Appraisal of the impacts of the proposal and advice

1. Inner Hebrides and the Minches candidate Special Area of Conservation

The proposal lies within Inner Hebrides and the Minches candidate Special Area of Conservation (cSAC) selected for its harbour porpoise. The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") or, for reserved matters the Conservation of Habitats and Species Regulations 2010 as amended apply. Consequently, The Highland Council is required to consider the effect of the proposal on the cSAC before it can be consented (commonly known as Habitats Regulations Appraisal). The SNH website has a summary of the legislative requirements (<http://www.snh.gov.uk/docs/A423286.pdf>).

In our view, this proposal is likely to have a significant effect on harbour porpoise within Inner Hebrides and the Minches cSAC because Acoustic Deterrent Devices (ADDs) are included as part of the range of predator control measures. These may disturb harbour porpoise. Consequently, The Highland Council is required to carry out an appropriate assessment in view of the site's conservation objectives for its qualifying interest. To help you do this we advise that, in our view, **based on the information provided to date, the proposal will not adversely affect the integrity of the site**. The appraisal we carried out considered the following factors:

- Sound of Raasay is wide at this point (~8km) and opens into the Minch to the North. Most of the Sound of Raasay has similarly high levels of predicted and observed harbour porpoise activity. The modelling and effort-corrected observational data suggests that the area around Invertope is of similar importance to other parts of the cSAC.
- A range of measures will be implemented to reduce the chances of seal attacks including seal blinds, maintenance of net tension, regular removal of morts and lower salmon stocking densities (than is standard practice on non-organic farms).
- Annexes 2B (*Statement on the use of ADDs*) and Annex 2C (*Containment and Escapes Contingency*) provide details on ADD usage. This includes measures to ensure that ADDs are only activated in the event of a significant seal predation event, will not sound continuously, and will be switched off promptly.
 - ADDs will only be switched on if >50 fish are killed due to seal predation and then only if it is the second such event within the last 5-7 days. ADDs will be used for a maximum of 14 days with a minimum of 7 days between usage periods.
 - When in use the ADDs will not sound continuously. The intention is for the ADDs to be triggered by the panic reaction of the fish but there is doubt as to whether this will work with the lower stocking

densities proposed. In the event that it does not the devices will be set to sound intermittently/randomly.

- They also plan to switch off the ADDs at night (between 6pm-8am).
- The source level quoted for the proposed ADD is also lower than other devices.
- They propose to deploy hydrophones to record cetaceans in the vicinity of the farm. It would be helpful to clarify if this data will be recorded all of the time or only when ADDs are activated. The latter scenario would be less useful because the ADDs may well displace cetaceans further than the range of the hydrophones.
- The developer has committed to keeping a log of ADD use and to make this available to THC and SNH on timescales to be defined by THC.
- The proposed Invertote and Culnacnoc fish farm sites are sufficiently close that cumulative impacts may occur if ADDs were in use at both farms at the same time. However, given the above mitigation measures we do not consider this to be a major factor in the overall assessment.

We recommend that you consider whether it is necessary to impose conditions to achieve the above mitigation. You may wish to carry out further appraisal before completing the appropriate assessment.

Other cetacean species have also been recorded in the wider area. In particular there are above average densities of bottlenose dolphin (year round) and minke whale (during the summer months). All cetaceans are European Protected Species. Similar issues regarding disturbance/habitat exclusion apply to those species and effects on them would also be mitigated by the measures outlined above.

2. River Kerry Special Area of Conservation (SAC)

The Invertote site lies 33km from River Kerry SAC (in Wester Ross) which is designated for Freshwater Pearl Mussel (FWPM). FWPM populations require healthy juvenile salmonid populations to complete their life cycle. We have considered the potential impacts of sea lice from this proposal (in combination with the Invertote fish farm proposals and other existing farms) on the SAC

In our view there is **unlikely to be a significant effect on the SAC** in this case because:

- Two surveys have indicated that the pearl mussel population uses both salmon and trout as the host for the larval stage. However, salmon is the principal and disproportionately the most important host.
- Recent survey results in the Kerry suggest that fish densities were sufficient to support recruitment.
- The salmon post smolts (the most vulnerable life stage) arising from the Kerry will tend to head out to sea as they emigrate towards the North Atlantic/Norwegian Sea. As such, they would not be expected to interact with sea lice emanating from the proposed farm locations.

3. Shiant Isles Special Protection Area (SPA)

The proposed fish farm is approximately 35km from the Shiant Isles SPA which is classified for a range of breeding seabirds including fulmar, common guillemot, puffin, kittiwake, razorbill and shag. The fish farm is within foraging distances of a number of these species. In our view there is **unlikely to be a significant effect on the SAC** in this case because:

- This site is not of particular importance for these species;
- Mitigation measures have been included to reduce the risk of entanglement, including well tensioned nets and avoiding the use of secondary anti-predator nets.

The ES refers to the use of '*an appropriate mesh size*' for the top nets to avoid entanglement but does not specify a specific size.

4. Landscape

A Landscape and Visual Impact Assessment has been carried out by a chartered landscape architect as requested. The methodology follows the relevant guidance, our scoping advice and reflects pre-application discussions. The resulting assessment is systematic, thorough and well balanced. The visualisations are of good quality and the use of buoys in the water to define the edges of the farm gives us confidence that they are accurate.

a. Trotternish National Scenic Area (NSA)

The Invertote fish farm site lies approximately 3-4km south of the NSA. The proposals would have very limited visibility from within the NSA. Our advice is that the proposal will not have an adverse effect on the integrity of the NSA or the qualities for which it has been designated, either alone or in combination with the Culnacnoc proposals.

b. Trotternish and Tianavaig Special Landscape Area (SLA)

The site lies within Trotternish and Tianavaig SLA which is of regional landscape importance and is protected via the Local Development Plan.

We agree with the overall conclusion of the LVIA (17.13) that *'the area of the proposed development is one of high sensitivity, in both character and visual amenity, and although proposals have been developed with sensitivity in design and siting, this LVIA recognises that levels of significance are high, with potential to erode the special landscape characteristics and particular views of the area. However, it is also to be noted that the scope of the areas affected is restricted, minimising impact upon the area as a whole and containing effects to selected sites'*.

Sites/zones where significant levels of landscape and visual impact have been identified include:

- Coastal landscape and seascape character –
 - The development would *'interrupt the uncluttered, undeveloped coastline, creating a focal point within the broad sweeping vistas of the Sound. However, when viewed from within the seascape, the proposals would be mitigated by the scale of the view and the height*

of cliffs which create a regularity of backdrop and shadowing effect to the shoreline' (13.6 & Table 9)

- And: *'Introduction of built structures into the otherwise unspoilt seascape will adversely affect the wild character'* (13.7 & Table 9).
- This includes effects on the SLA Special Qualities *'in particular, views of the coast....and potential to impinge on the natural arches found within the coastline at Invertote'*
- The cumulative assessment concludes that the combined effect of Invertote and Culnacnoc fish farms would result in *'an extension of the area affected rather than an increase in the significance levels'* (15.4).

- Visual

- We agree that the most significant visual impacts are likely to be from the A855 layby, close to the site (VP1). Viewed from here the *'Sweeping nature of the view will be affected, as cage group will create a focal point, interrupting the open seascape and drawing the viewers eye to the man made structures within the natural scene'* (14.7). We also agree that the immediate surroundings of the layby and parallel alignment of the cages with a linear stretch of coastline would mitigate these effects.

Cumulative effects with Culnacnoc are described as creating a *'zone of infrastructure within the seascape...with misalignment further drawing attention. However, as part of a much larger panorama, development sites remain a feature within the view rather than a dominant form'* (15.6).

- Careful siting of the two farms either side of Invertote/Lealt Gorge (VP3) means that only a small part of each farm would be visible on the edge of a wide panorama. Both farms would not be seen simultaneously due to the wide angle of the view.
- From Rubha nam Brathairean (VP5), Invertote would form a distant element in the view to the south and would not significantly increase the effect of the Culnacnoc site alone.
- From the Storr (VP6) each farm would form a distant feature within the broader view. We agree that they do not fall within the key parts of this view.

The LVIA does a good job teasing out the specific landscape and visual impacts but **it is for you to decide how much weight you attach to the significant but localised impacts in the context of your own policies.**

5. Benthic / Priority Marine Features (PMFs)

Benthic grab sample and visual surveys were carried out in March and April 2017. These appear to follow the relevant guidance and have reasonable coverage of the predicted depositional footprint. The quality of the video footage is adequate to assess the biotopes present.

The seabed comprises primarily sandy sediments in the shallows. We agree with the visual survey report that the habitats observed at the start of transects 2 and 3

are likely to be sand and shell sand rather than **maerl** (similar pixelation artefacts have been seen at other sites).

As the depth increases to around 40m (the offshore ends of transects 2 & 3 and the northern part of transect 1) the substrate becomes increasingly muddy and much of this habitat would be classified as **burrowed mud**, which is a PMF. Many of the typical species such as *Nephrops norvegicus* are present, but sea pens were rare (only two *Virgularia mirabilis* were seen). A single fireworks anemone (*Pachycerianthus multiplicatus*) was also recorded. This type of habitat is widespread in Scotland and the **proposals do not raise any issues of national interest for this PMF habitat.**

Ocean quahog (*Arctica islandica*) is another PMF that is present (probably at low density) in areas of suitable habitat at the proposed site. Two individuals were recorded in the grab samples, one in the centre of the site and the second in one of the 300m N samples. The **proposals do not raise any issues of national interest regarding this PMF species.**

The southern end of the site has boulders interspersed with finer sediments. **Northern sea-fan and sponge communities** PMF is present at the start of transect 1 (section 1). There is 67mins of footage along transect 1 and the PMF is present for the first 23mins of this, though decreasing in quality and abundance over the course of that time. Abundances of Northern sea-fan (*Swiftia pallida*) are Frequent at the start of the footage, this gradually decreases to Occasional / Rare at the end of the 23min with no cup coral *Caryophyllia smithii* and ascidians rare by the end. This reflects a reduction in suitable substrate with a transition to a mud habitat.

The substrate consists of sedimented cobbles/boulders on mud rather than bedrock/boulders which is more typical for this PMF. Other species present within this habitat include, hydroids and ascidians including *Diazona violacea* and erect bryozoans and sponges with some *Caryophyllia* identified.

The PMF habitat Northern Sea Fan and Sponge Communities is considered to have a high sensitivity to organic enrichment and siltation, both of which are associated with aquaculture. In addition, *Swiftia* is a passive suspension feeder, catching food on a filter held into flowing water. Siltation, associated with high levels of suspended sediments, will inhibit the ability of *Swiftia* to feed. *Swiftia* is likely to be tolerant of a degree of suspended sediment and siltation, and this is evidenced by its presence on some areas of reef habitat covered with a fine layer of silt. However, in our opinion *Swiftia* is unlikely to be able to tolerate the levels of increased suspended sediment and siltation that are associated with the scale of aquaculture that is proposed at this location.

Northern sea fan and sponge communities are of global importance with all British records in Scotland where they are considered scarce. They are in decline or under threat of decline and are functionally important due to high diversity within these habitats.

Although this is a good example of the PMF it only occurs at one end of the proposed development and *Swiftia* abundance (recorded as Frequent to Rare) is lower than some other examples of the feature (densities of sponges, bryozoans and ascidians are also lower). **We therefore advise that this area of PMF would not be regarded as being of national interest.**

We advise that **potential impacts could be mitigated by micro-siting the development as far to the north of the existing planning boundary as is possible**. This would help reduce the extent and severity of any impacts on the area of habitat which is located at the south end of the development area. However the effects of this change would also need to be considered against other non-benthic interests (e.g. landscape).

Black guillemot (also a PMF) breed along the adjacent coastline and are likely to forage in the area. Although they can forage in water up to 50m deep they generally prefer water less than 30m deep. There is also some information which suggests an association with sub-littoral kelp beds. The fish farm is proposed in waters >40m depth and kelp beds were not seen in the benthic visual footage. We advise that these **proposals do not raise any issues of national interest regarding this PMF species**.

Please let me know if you would like clarification or any further advice regarding this case.

Yours sincerely,

Alex Turner
Area Officer, Skye and Lochalsh
alex.turner@snh.gov.uk



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FAO: Richard Kerr
Argyll & Bute Council
Planning Services
1A Manse Brae
Lochgilphead
PA31 8RD

23 February 2018
Our ref: CDM149075/A2538375
Your ref: 18/00005/MFF
By email only

Dear Sir / Madam,

Town and Country Planning (Scotland) Act 1997 Marine fish farming planning application – Alterations to existing site – Poll Na Gille (PNG), Sound of Shuna – 18/00004/MFF

Thank you for your consultation on the above proposal dated 18 January 2018. The proposal is to enlarge the existing marine fin fish (Atlantic salmon) farm by replacing the current 16 x 100m circumference cages with 12 x 120m circumference cages, move the site 75m to the east of its current location, and to increase the biomass at this site from 2,262 to 2,500t.

Summary

The proposal could affect the Inner Hebrides and the Minches Candidate Special Area of Conservation (cSAC) selected for its harbour porpoise interest. This proposal could be progressed with appropriate mitigation. However, because it could affect internationally important natural heritage interests and therefore, **we object to this proposal unless it is made subject to conditions, so that the works are done strictly in accordance with the mitigation as detailed in our appraisal below.**

We also provide advice about impacts on other aspects of the natural heritage. We have included details of these in our appraisal below.

Appraisal

1. Inner Hebrides and the Minches cSAC

The proposal lies within the Inner Hebrides and the Minches candidate Special Area of Conservation (cSAC) selected for its harbour porpoise.

The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") apply or, for reserved matters, The Conservation of Habitats and Species Regulations 2017. Consequently, Argyll and Bute Council is required to consider the effect of the proposal on the cSAC before it can be consented (commonly known as Habitats Regulations Appraisal). The SNH website has a

summary of the legislative requirements (<https://www.nature.scot/professional-advice/safeguarding-protected-areas-and-species/protected-species/legal-framework/habitats-directive-and-habitats-regulations>).

In our view, this proposal is likely to have a significant effect on the harbour porpoise qualifying interest of the Inner Hebrides and the Minches cSAC. Consequently, Argyll and Bute Council is required to carry out an appropriate assessment in view of the site's conservation objectives for its qualifying interest. To help you do this, we advise that in our view, on the basis of the information provided and the appraisal carried out to date, if the proposal is undertaken strictly in accordance with the following mitigation, then it will not adversely affect the integrity of the site. Our mitigation advice is as follows:

- 1) Any Acoustic Deterrent Devices (ADDs) that are deployed at this site will be done so in accordance with the agreed ADD deployment plan (as detailed in annex 1 of the supporting information provided with the application). Any future changes to the plan must be approved by the Planning Authority.
- 2) The operator must undertake reporting on ADD usage at the site including:
 - a. The exact dates when the device was operated, how often it was operated on that date, for what duration, and what was the cue for its manual or auto-sensor operation;
 - b. Details of any predation events by seals and any anti-predation measures (including ADD) deployment) in use at the time should be logged;
 - c. Details of the person (or persons) responsible for maintaining the logs;
 - d. An undertaking that all logs will be maintained for review by the Planning Authority and/or SNH, if deemed necessary by the Planning Authority.

The appraisal that we carried out considered the impact of the proposal on the following factors:

- The risk posed through potential entanglement of cetaceans in farm equipment is not considered to be significant.
- The risk of injury as a result of exposure to sound emanating from ADDs at this site is not considered to be significant. We conclude that it is unlikely that harbour porpoise will spend significant periods of time within the distances required to result in injury from the use of the equipment as proposed within the ADD deployment plan. We therefore consider the risk of auditory injury as a result of this individual development to be low.
- With the proposed mitigation any potential disturbance as a result of exposure to sound emanating from ADDs at this site is not considered to be significant. This is because:
 - a) The ADD deployment plan provides an appropriate protocol to ensure that the use of ADDs will be limited, and their repeated, continuous use over prolonged periods of time will be prevented, and;
 - b) Due to the relatively low source level of the devices that are proposed. It is predicted that the sound levels emanating from the devices that are proposed at this site will result in a reduced area of potential disturbance, in comparison to some other higher power device types.
- The operator has committed to keeping a record of ADD use at the site and will provide this information to the Planning Authority on request. This will provide an opportunity for the Planning Authority to consider and review the use of ADDs at this site, thus ensuring that long-term cumulative issues can be taken into account in the future.

If the planning authority intends to grant planning permission against this advice without the suggested mitigation, you must notify Scottish Ministers.

We would be happy to provide the full details and reasoning of these recommendations in the form of our Habitats Regulations Appraisal (HRA) proforma.

Background information on the cSAC can be found at: <https://www.nature.scot/professional-advice/safeguarding-protected-areas-and-species/protected-areas/international-designations/natura-sites/harbour-porpoise-candidate>

2. Loch Sunart to the Sound of Jura MPA

The proposal lies within the Loch Sunart to the Sound of Jura Nature Conservation Marine Protected Area (NC MPA) selected for its common skate and Quaternary of Scotland glaciated channels and troughs.

The site's status means that the requirements of the Marine (Scotland) Act 2010 apply. Consequently, Argyll and Bute Council is required to consider the effect of the proposal on the NC MPA before it can be consented. In our view, the proposal is capable of affecting the common skate protected feature of the Loch Sunart to the Sound of Jura MPA.

We have reached this conclusion because the proposal could theoretically result in a reduced availability of prey species, particularly crustaceans, in a relatively localised area around the proposed development. It could also affect egg-laying areas of common skate locally through deposition of materials onto suitable substrate. However, within the context of the MPA as a whole, we consider that any reduction in prey species or the degradation of egg-laying substrates as a result of the deposition of organic waste is unlikely to be significant.

We therefore consider that the risk of this proposal being capable of affecting, other than insignificantly, the protected features of the Loch Sunart to the Sound of Jura NC MPA is low.

The discharge of chemicals is primarily SEPA's remit and we would expect this aspect of the proposal to be considered in detail through the CAR licensing process. Argyll and Bute Council may wish to consult with SEPA when undertaking their own assessment of the effect of the proposal on the NC MPA.

3. Benthic Impacts

During the screening/scoping stage of this proposal, in the template submitted by the applicant on 14 August 2017, in relation to benthic impacts the applicant stated that:

"Once a new footprint for the site has been modelled discussions will be carried out with SEPA and SNH to determine whether a baseline video survey is required for the proposed development."

We are not aware of any discussions between SNH, SEPA and the applicant, prior to this application being submitted, to agree upon the requirement for a new baseline visual survey. However, from the limited information that we have available, it appears as though a new baseline visual survey may have been required.

We have no information relating to the benthic habitats and species that are likely to be present at this site and cannot therefore advise further on the benthic impacts arising from this proposal. However, we note that this aspect of the proposal will be considered in detail through the CAR licencing process and we would expect to discuss this further with SEPA during that process.

I trust that our advice is clear but please do not hesitate to contact me if you require any further information or clarification.

Yours faithfully,

Andrew Campbell
Operations Manager
Lorn and North Argyll
andrew.campbellt@snh.gov.uk



Scottish Natural Heritage Dualchas Nàdair na h-Alba

All of nature for all of Scotland
Nàdar air fad airson Alba air fad

By Email: epc.planning@highland.gov.uk

FAO: Shona Turnbull

Date: 5 March 2018
Our ref: CNS/MFF/HI/Lochaber
Your ref: 18/00584/FUL

Dear Shona

Town & Country Planning (Scotland) Acts Modification of Marine Fish Farm –Am Maol, Isle of Muck

Thank you for your consultation on the above proposal dated 16 February 2018.

1. Summary

-Ardnamurchan Burns Special Area of Conservation (SAC), Mingarry Burn SAC, Glen Beasdale SAC, River Moidart SAC – This proposal could be progressed with appropriate mitigation. However, because it could affect internationally important natural heritage interests, **we object to this proposal unless it is made subject to conditions so that the works are done strictly in accordance with the mitigation detailed in our appraisal below and in Annex A.** If the planning authority intends to grant planning permission against this advice without the suggested mitigation, you must notify Scottish Ministers.

-Inner Hebrides and the Minches candidate Special Area of Conservation (cSAC):

It is unlikely that the proposal will have a significant effect on the qualifying interest either directly or indirectly.

-Small Isles National Scenic Area (NSA): The proposal will affect several of the special landscape qualities of this area but these effects will be small when viewed in the context of the existing farm and will not affect its overall integrity.

2. Background

This proposal is to increase the biomass and extent of an existing fin fish farm which was originally consented in 2011. Minor amendments to feed barge design, feed pipe colour and top net supports were consented between 2014 and 2017. We provided pre-application and EIA scoping advice where we advised on impacts on designated sites, landscape and benthic impacts. We requested an Environment Management Plan to address likely impacts on wild salmonids. We also had subsequent discussions with the developer regarding the provision of sea lice data. We offered to advise on these aspects prior to submission of the planning application but those offers were not taken up.

3. Appraisal of the Impacts of the Proposal and Advice

The proposal could affect Ardnamurchan Burns SAC, Mingarry Burn SAC, Glen Beasdale SAC and River Moidart SAC, all of which are designated for fresh water pearl mussel. It is within Inner Hebrides and Minches cSAC selected for harbour porpoise.

Scottish Natural Heritage, Torlundy, Fort William PH33 6SW Scotland
Tel 01397 704716 www.snh.org.uk

Dualchas Nàdair na h-Alba, TòrrLunndaidh, An Gearasdan PH33 6SW Alba
Fòn 01397 704716 www.snh.gov.uk/gaelic

These sites status' means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") apply. Consequently, THC is required to consider the effect of the proposal on the SACs and cSAC before it can be consented (commonly known as Habitats Regulations Appraisal). The SNH website has a summary of the legislative requirements (<https://www.nature.scot/professional-advice/safeguarding-protected-areas-and-species/protected-species/legal-framework/habitats-directive-and-habitats-regulations>).

3.1 Ardnamurchan Burns Special Area of Conservation (SAC), Mingarry Burn SAC, Glen Beasdale SAC, River Moidart SAC

In our view, this proposal is likely to have a significant effect on the freshwater pearl mussel interests of all four of the sites listed above. Consequently, The Highland Council, as competent authority, is required to carry out an appropriate assessment in view of the sites' conservation objectives for their qualifying interests. To help you do this, we advise that in our view on the basis of the information provided, if the proposal is undertaken strictly in accordance with the following mitigation, then the proposal will not adversely affect the integrity of the site.

An Environmental Management Plan should be provided to be agreed by the planning authority in consultation with SNH and Marine Scotland. This should include:

1. Monitoring of the wild salmonids in the SAC rivers on an annual basis using methodologies compatible with Marine Scotland sampling protocols.
2. Monitoring of sea lice numbers on wild salmonids in coastal waters (e.g. by sweep netting or other means) at suitable locations, ideally close to the SACs.
3. Annual submission of results to the local authority, which could also be considered by a national technical group (which has recently been convened by Scottish Government/Marine Scotland) to help advise. The monitoring results would be considered alongside data on sea lice numbers recorded from within the farm, to determine whether sea lice numbers and management are a contributory factor to any adverse results recorded in the fish monitoring within the SACs.
4. Details of actions that can be taken should the planning authority, following advice from the technical group, confirm that intervention is needed to prevent an adverse effect on the integrity of the SAC(s). This should include details of all sea lice reduction methods which will be available for use at this farm as well as criteria for early harvesting or other means of reducing biomass.

Outside of the planning process, the applicant has committed to monitoring wild salmonids in the above SAC rivers. We welcome this commitment but at present there is no obvious mechanism by which the applicant would have to act on the results of the monitoring in order to protect the SACs. Without this feedback mechanism, we cannot be confident (beyond reasonable scientific doubt) that there will be no adverse effect on the integrity of the SACs. In the absence of any alternative mechanism to manage the risk posed by any sea lice that may emanate from the farm at the present time this process needs to be controlled by the planning authority.

Annex A contains further details of our appraisal.

3.2 Inner Hebrides and Minches cSAC:

A fish farm in this location has the potential to significantly affect harbour porpoise (and other cetaceans), through the use of ADDs. However, the applicant has stated in their application that they will not install or use ADDs at this fish farm. **Therefore, providing that ADDs are not used it is unlikely that the proposal will have a significant effect on any qualifying interests of the cSAC** either directly or indirectly and an appropriate assessment is not required.

You imposed a condition prohibiting the use of ADDs at this site as part of the previous planning consent (11/01755/FUL). Assuming that permission would be superceded by any new consent and we recommend that you consider whether it is necessary to apply that condition in any new consent in order to preclude the use of ADDs in the future.

3.3 The Small Isles National Scenic Area (NSA)

The proposal is within the Small Isles NSA designated for its island scenery and seascapes which are considered to be of national importance. Further information on the NSA and the special qualities can be found here:

http://gateway.snh.gov.uk/sitelink/siteinfo.jsp?pa_code=9154

The proposal is an expansion of an existing fish farm with the addition of two new cages at the north end of the group. The location of all the cages is further inshore than that currently consented but appears to be formalising a previous unconsented change (ref. *'the 2018 proposal retrospectively applies to move the surface equipment approximately 150m further west of the existing site licence'*). That said, the inshore location is preferable in landscape terms, strengthening the visual link between the island and the fish farm. The top net support poles proposed were previously consented in 2016.

At scoping we recommended that various layout options should be considered but this has not been done. A series of photomontages have been provided, as requested. These do not entirely follow current good practice guidance but they are good enough to allow comparison between the existing and proposed developments.

The additional cages will increase the size of the fish farm in views from the ferry resulting in increased visual impact. However these changes are relatively small in the context of the existing farm. We conclude that the proposal will not have an adverse effect on the integrity of the Small Isles NSA or the objectives of the designation.

Our initial advice provided in 2011 is still valid in particular the recommendation that in order to minimise landscape and visual impact the feed barge, cages and top nets should be a dark matt grey colour.

Detailed advice on other issues is given in annex B.

4. Conclusion

If you have any questions about this response, please contact Corrina.mertens@snh.gov.uk at the address above.

Yours sincerely

Johanne Ferguson
Operations Manager

cc Marine Harvest, SEPA, MS

Annex A - Detailed Appraisal of the Impacts of the Proposal and Advice Ardnamurchan Burns Special Area of Conservation (SAC), Mingarry Burn SAC, Glen Beasdale SAC, River Moidart SAC

Scientific evidence summarised by Marine Scotland indicates the potential for a detrimental effect of sea lice on sea trout and salmon populations. A recent study in Scotland found that the proportion of individual sea trout with sea lice burdens above a level known to cause physiological stress decreased with distance from that farm and, on average, burdens were less than this level 31km from that farm. There are wide confidence limits associated with this figure but we consider that beyond 35km from a farm the risks are low. Ardnamurchan Burns SAC is approximately 11km from Muck fish farm. The remaining three SACs are all within 35km of the fish farm.

Muck fish farm is an existing farm which has operated from 2012. It is one of the first farms to propose to increase the biomass over the 2500t limit and is proposing to stock a maximum biomass of 3500t. This increase in biomass increases the importance of successfully managing sea lice, as well as the potential for sea lice to affect wild salmonids.

Freshwater pearl mussel populations require healthy juvenile salmonid populations to complete their life cycle. Research suggests they struggle to complete their life cycle when salmonid densities are very low. It is likely that the following elements of the SAC conservation objective may be adversely affected by the proposal:

- Distribution and viability of freshwater pearl mussel host species
- Structure, function and supporting processes of habitats supporting freshwater pearl mussel host species

It is noted that previous production cycles at the fish farm have shown that sea lice numbers were below the CoGP thresholds for most of those cycles, aside from a few occasions at the end of each cycle, particularly the most recent in 2017. This appears to have been achieved by chemical treatments and harvesting. The applicant has submitted an example treatment plan. This includes a wide range of alternative treatments including lice skirts, freshwater, mechanical treatment (thermolicer and hydrolicer) and cleaner fish. The additional methods available and what appears to be a flexible plan should be beneficial at managing sea lice at the site. However the plan does not give details of trigger levels or how decisions will be made.

Further, although MHS management of sea lice at this farm appears to have been relatively effective in the recent past, there is no guarantee that their lice management tools will remain effective, nor obligation on them to manage lice to a level where they won't affect wild salmonids.

Subsequent to the planning application there has been a wild fish monitoring proposal for the four SACs sent to SNH, potentially using the GRTS model developed by Marine Scotland Science. We support this approach which would allow the data to be put into the context of wider, national/regional monitoring that MSS aim to commence later this year. However the monitoring of sea lice on wild salmonids in coastal waters is missing from the proposals. There is also no means by which the results of the monitoring, should it raise concerns, can be used to investigate or determine whether the management of the farm is contributing to any problems, or to take any management actions based on the results.

Without this feedback mechanism to protect the SACs we conclude that it **cannot be ascertained that the proposal will not adversely affect the integrity of the site**. At present planning conditions appear to be the only realistic mechanism to ensure such safeguards are put in place. Please let us know if you require any further advice.

Annex B - Sea of Hebrides possible Nature Conservation Marine Protected Area (pMPA)

The proposal lies within Sea of Hebrides pMPA selected for Basking shark, Fronts, Minke whale, Marine Geomorphology of the Scottish Shelf Seabed

The Scottish Government has a policy of protecting such sites as if they were designated (as set out in the Marine Protected Areas Management Handbook). The legal protection afforded to designated Nature Conservation MPAs is set out in the Marine (Scotland) Act 2010. Consequently, THC is required to consider the effect of the proposal on the possible MPA before it can be consented.

A fish farm in this location has the potential to significantly affect minke whale through the use of ADDs. However the applicant has committed to not installing or using ADDs. Therefore we advise that, providing that ADDs are not used, the effects on the pMPA will be insignificant and further assessment is not required.

Fish farms would be capable of affecting Basking sharks but in our view these effects are insignificant.

In our view the development is not capable of affecting the Fronts or Marine Geomorphology features.

Priority Marine Features (PMFs)

Poor quality visual survey and limited coverage of the proposed AZE prevents us from providing detailed advice on the benthic habitats and species that are likely to be impacted. However, based on the information that is available from the original survey, carried out in 2011, and from the more recent survey carried out in 2017, we can predict that much of the proposed AZE will consist of mud habitats. This appears to be a typical example of this PMF habitat.

In addition to the mud habitats the 2017 survey identifies at least one area of what appears to be the PMF habitat, 'Northern sea fan and sponge communities'. This area was located at the end of transect 1, which is located on the north eastern edge of the proposed (and current) Newdepomod footprint. The survey report, which was provided by the applicant, concludes that this area of northern sea fan and sponge communities is an isolated area within a larger area of mixed sediments. We feel there is insufficient information provided within the visual survey report to be able to reach a judgement on the extent of this area of Northern sea fan and sponge communities.

However, we note that the applicant has provided Newdepomod footprints for the existing site (2500T) and the proposed site (3500T) and while there are slight differences in these two footprint they largely follow the same pattern and there does not appear to be a significant increase in the predicted area of impact. SEPA have confirmed that the modelling has been validated by their specialists. In addition we have received further information from SEPA which indicates that over the last two production cycles the observed impacts of the existing operation are significantly less than those predicted in the worst case scenario model output.

Based on the available information we conclude that it is unlikely that this proposal will result in a significant increase in benthic impact over and above that which is already consented by the existing developed. We therefore conclude that in this case the proposed expansion of Muck fish farm is unlikely to result in significant impacts upon the national status of any PMF habitats and species.

Habitats regulations appraisal Proforma

This proforma should be used to record SNH's Habitats Regulations Appraisal when SNH is a competent authority. It should also be used to record SNH's appraisal of a plan or project when SNH is providing advice to a competent authority.

The proforma is available in [an alternative form on the SNH Dashboard](#). The Dashboard version is particularly suited to dealing with more straightforward Natura casework.

APPRAISAL IN RELATION TO REGULATION 48 OF THE CONSERVATION (NATURAL HABITATS, &C.) REGULATIONS 1994 AS AMENDED¹ (HABITATS REGULATIONS APPRAISAL)

Casework Management System Ref.

CDM148988 and
CDM149075

NATURA SITE DETAILS

Name of Natura site(s) potentially affected:

Inner Hebrides and the Minches cSAC

Name of component SSSI if relevant:

Natura qualifying interest(s) & whether priority/non-priority:

Harbour porpoise (*Phocoena phocoena*)

Conservation objectives for qualifying interests:

1. To ensure that the Inner Hebrides and the Minches SAC continues to make an appropriate contribution to harbour porpoise remaining at favourable conservation status.
2. To ensure for harbour porpoise within the context of environmental changes, that the integrity of the Inner Hebrides and the Minches SAC is maintained through 2a, 2b and 2c:
 - 2a. Harbour porpoise within the Inner Hebrides and the Minches are not at significant risk from injury or killing.
 - 2b. The distribution of harbour porpoise throughout the site is maintained by avoiding significant disturbance.
 - 2c. The condition of supporting habitats and the availability of prey for harbour porpoise are maintained.

STAGE 1: WHAT IS THE PLAN OR PROJECT?

Proposal title:

Combined HRA appraisal for BDNC and Port na Gille Fish Farm, Loch Shuna, Ardfern.

Name of consultee:

Argyll and Bute Council

Name of competent authority:

Argyll and Bute Council

Details of proposal (inc. location, timing, methods):

¹ Or, where relevant, under regulation 63 of The Conservation of Habitats and Species Regulations 2017, or regulation 25 of The Offshore Marine Conservation (Natural Habitats, &c.) Regulations 2007 as amended.

BDNC: Enlargement of marine fin fish (Atlantic salmon) farm. Replacement of feed barge and increase in biomass to 3500 tonnes. The proposal includes the continued use ADDs as part of predator control options in line with the ADD deployment plan submitted in Annex 1 of the supporting information (A2531640).

PNG: Increase the biomass from 2262t to 2500t and modify cages so site will consist of fewer pens of a larger size. They also want to move this site 75m to the east. Proposal to introduce the use of ADDs as a predator control option, in line with the ADD deployment plan submitted in Annex 1 of the supporting information (A2531640).

STAGE 2: IS THE PLAN OR PROJECT DIRECTLY CONNECTED WITH OR NECESSARY TO SITE MANAGEMENT FOR NATURE CONSERVATION?

The following points should be considered:

i) Has the effect on all qualifying interests been considered?

ii) Is the proposal part of a fully assessed and agreed management plan?

iii) Is there a clear rationale to justify the connection with the conservation objectives?

iv) If there is a clear connection with the conservation objectives will any benefits arising from the proposal outweigh any negative effects?

v) Have any alternative methods of implementing the proposal been explored to demonstrate that this is the least damaging option?

vi) Give a YES/NO conclusion in terms of whether the plan or project is considered directly connected with or necessary to site management for nature conservation.

*- If **YES** for all elements of a plan or project, for all the Natura qualifying interests (preferably as part of a fully assessed and agreed management plan), then consent can be issued. The rationale should be detailed below and no further appraisal is required (no need to proceed to stage 3 or 4).*

*- If **No** for all Natura qualifying interests then proceed to stage 3.*

- If a plan has multiple elements (e.g. a range of policies or management objectives), elements of the plan considered directly connected with or necessary to site management for nature conservation should be discussed below and a rationale given for this conclusion. No further appraisal is then required for those elements. All other elements of the plan must proceed to stage 3.

No

STAGE 3: IS THE PLAN OR PROJECT (EITHER ALONE OR IN COMBINATION WITH OTHER PLANS OR PROJECTS) LIKELY TO HAVE A SIGNIFICANT EFFECT ON THE SITE?

Each qualifying interest should be considered in relation to their conservation objectives. The following points should be considered:

i) Briefly indicate which qualifying interest could be affected by the proposal and how; if none, provide a brief justification for this decision, and then proceed to v), otherwise continue:

ii) refer to other plans/projects with similar effects/other relevant evidence;

iii) consider the nature, scale, location, longevity, and reversibility of effects;

iv) consider whether the proposal contributes to cumulative or incremental impacts in combination with other plans or projects completed, underway or proposed;

v) Where the impacts of a proposal are the same for different qualifying interests these can be considered together however a clear conclusion should be given for each interest

vi) give Yes/No conclusion for each interest.

*- If **yes**, or in cases of **doubt**, continue to stage 4.*

- If potential significant effects can easily be avoided, record modifications required below.

*- If **no** for **all** features, a consent or non-objection response can be given and recorded below (although if there are other features of national interest only, the effect on these should be considered separately). There is no need to then proceed to stage 4.*

Yes

The typical frequencies of ADDs are within the hearing range of harbour porpoise. Scientific evidence exists to suggest that in some instances ADDs can result in the disturbance and displacement of harbour porpoise.

Should ADDs be in use / proposed at this site then in our view, this proposal is likely to have a significant effect on the harbour porpoise qualifying interest of the Inner Hebrides and the Minches cSAC.

Mitigation or modifications required to avoid a likely significant effect & reasons for these:

Mitigation: NA

Reason: NA

STAGE 4: UNDERTAKE AN APPROPRIATE ASSESSMENT OF THE IMPLICATIONS FOR THE SITE IN VIEW OF ITS CONSERVATION OBJECTIVES

(It is the responsibility of the competent authority to carry out the appropriate assessment. The competent authority must consult SNH for the purposes of carrying out the appropriate assessment. SNH can provide advice on what issues should be considered in the appropriate assessment, what information is required to carry out the assessment, in some circumstances carry out an appraisal to inform an appropriate assessment and/or provide comments on an assessment carried out. Where we are providing advice to a competent authority our appraisal of the proposal should be recorded here.)

The following points should be considered:

- i) Describe for each qualifying interest the potential impacts of the proposal detailing which aspects or effects of the proposal could impact upon them and their conservation objectives.*
- ii) Evaluate the potential impacts, e.g. whether short/long term, reversible or irreversible, and in relation to the proportion/importance of the interest affected, and the overall effect on the site's conservation objectives. This should be in sufficient detail to ensure all impacts have been considered and sufficiently appraised. Record if additional survey information or specialist advice has been obtained.*
- iii) Each conservation objective should be considered and a decision reached as to whether the proposal will affect achievement of this objective i.e. whether the conservation objective will still be met if the proposal is consented to.*

Appraisal

1. To ensure that the Inner Hebrides and the Minches SAC continues to make an appropriate contribution to harbour porpoise remaining at favourable conservation status.

Provided the conservations objectives below are not compromised then this conservation objective shall be met.

2. To ensure for harbour porpoise within the context of environmental changes, that the integrity of the Inner Hebrides and the Minches SAC is maintained through 2a, 2b and 2c:

2a. Harbour porpoise within the Inner Hebrides and the Minches are not at significant risk from injury or killing.

Frequent exposure to ADD signals has the potential to cause temporary or even permanent hearing damage to harbour porpoise, thereby affecting biological fitness and / or survival. Modelling indicates that cumulative exposure to multiple devices will reduce the time span required before injury thresholds are breached. However, avoidance / disturbance are a context driven response and can therefore very difficult to predict.

Lepper et al (2014) undertook a report aimed at establishing potential risks to cetaceans and pinnipeds from ADD use by the Scottish aquaculture industry. Their conclusion was that hearing damage from ADDs (general device types) could not be ruled out, which we agree with. Their model is highly caveated in that they used a static animal movement element. This is unrealistic as harbour porpoise do not remain static, however they concluded that if a porpoise was stationary within 100m

of the Terecos system (which is proposed at both BDNC and PNG), auditory damage is suggested after 3 hours, stationary within 500m this would be 16 hours. Gotz and Janik (2013)² have also modelled the risk of auditory damage, for a 33% duty cycle which they used to represent 3 Terecos devices, estimate 19 hrs 17mins to accrue hearing damage within 295m. On this basis we consider that hearing damage via instant or short-term exposure is unlikely with the proposed deployment plan for use of Terecos at these sites. We conclude that it is unlikely that harbour porpoise would spend significant periods of time within distances that would be required to result in injury; we do not consider the risk of hearing damage occurring as a result of either of these developments to be significant, provided that there are no changes to the type of device being used. Any changes to the type of device being used would need to be subject to separate assessment.

There have been no records of entanglement in fish farm nets occurring in Scotland and we do not consider this aspect of the developments to pose a significant risk to harbour porpoise with the cSAC.

Cumulative impacts

We consider that there may be a risk of repeated near-field cumulative exposure as a result of ADD use across the SAC. Provided the mitigation as defined in the ADD deployment plan is adhered to then we would not deem these sites to be contributing significantly to this risk. However, the risk of repeated near-field cumulative exposure cannot be fully addressed by mitigating single developments in isolation as it requires a much broader approach. This can be achieved through a review of consents process; the ongoing implementation of mitigation as and when planning applications to modify existing sites are submitted and by working with industry and LAs to ensure good practice use of existing devices. Going forward, by attaching conditions to any future planning consents, the Planning Authority will have a mechanism to ensure that ADD use is controlled and that appropriate site specific mitigation is in place. In doing so we can expect to see a gradual reduction in the number of sites that can deploy ADDs without any restrictions on their use. In taking this approach the long-term aim is to reduce the level of potential sound emissions that are being released in to the cSAC as a result of the use of ADDs.

Based on the appraisal above we conclude that this proposal will not, alone or in combination, hinder the achievement of this conservation objective

2b. The distribution of harbour porpoise throughout the site is maintained by avoiding significant disturbance.

The typical frequencies of ADDs are within the hearing range of harbour porpoise. A body of evidence exists to suggest that in some instances ADDs can result in the disturbance and displacement of harbour porpoise.

The applicant has provided an ADD deployment plan detailing the triggers that will result in the possible deployment of ADDs on the fish farm. This plan provides a clear protocol to ensure that ADDs will not be left on continuously, identifying a review process and structure which sets out clear restrictions on the use of ADDs at this site. Specific mitigation includes:

- Initial use of a device which has a lower power and therefore is understood to have a reduced zone of disturbance in comparison to predictions in the literature.
- ADDs will not be deployed unless seal attributed mortality occurs
- ADDs will be deactivated when seal attributed mortalities cease
- If seal attributed mortalities continue for 2 fortnightly review periods despite ADDs being activated then ADDs will be deemed ineffective and shall be deactivated and alternative methods will be implemented unless a clear justification relating to their need and effectiveness can be provided.

The applicant has committed to recording their use of ADDs and will provide this data to the Local Authority and SNH on request. If on review of this information it is deemed that ADD use has not

² Gotz & Janik (2013) Acoustic deterrent devices to prevent pinniped depredation: efficiency, conservation concerns and possible solutions Mar Ecol Prog Ser Vol 492:285-302

been an effective seal deterrent, resulting in excessive amount of ADD use, then the Local Authority, as the relevant Competent Authority, should reserve the right to require changes to the ADD deployment plan to ensure that ADD use will not compromise the future maintenance of the site conservation objectives.

While ADDs are in use there is potential that they could result in disturbance and displacement of harbour porpoise within the cSAC boundary. The extent of this disturbance / displacement will vary depending on the context of the harbour porpoise behaviour and on other variables such as the power, duration and frequency of the specific device that is in use. The current Terecos device that is proposed is of significantly lower power than most other ADD devices. While the frequencies of sound that are emitted from the device are within the sensitive hearing range of harbour porpoise, and therefore likely to elicit a response, the lower output power is predicted to result in a significantly reduced zone of disturbance / exclusion.

The ADD deployment plan that has been submitted with these applications (supporting information, Annex 1) provides an appropriate protocol to determine when ADDs will be deployed, activated and deactivated (once deactivated any potential displacement / disturbance effect will cease and can therefore be considered reversible). It includes reference to specific numbers of a specific device that will be used, triggers for activation and deactivation of ADDs and an appropriate protocol for the monitoring, logging and review of ADD use on the site. Provided the ADD deployment plan is conditioned as part of any planning approval then there will be a mechanism in place to ensure that ADD use can be managed through planning, thereby limiting the extent, and subsequently reducing the significance, of any potential disturbance / displacement that could occur.

BDNC is located to the west of Craignish peninsula approx. 1.5km from the southernmost point of Shuna Island, which is the main entry point in to Seil Sound from the south. Based on our current understanding of the potential range of disturbance / exclusion as a result of the level of sound emitted by the specific device proposed at BDNC, together with the mitigation outlined in the ADD deployment plan, we would conclude the risk of the passage becoming acoustically blocked by the use of ADDs at BDNC is low.

PNG is located on the east side of Shuna, approximately 1km from Eileen Arsa, the nearest land to the east of the sound. Based on our current understanding of the potential range of disturbance / exclusion as a result of the level of sound emitted by the specific device proposed at PNG, together with the mitigation outlined in the ADD deployment plan, we would conclude the risk of the passage becoming acoustically blocked by the use of ADDs at PNG is low.

Based on the above factors we would deem, in these specific cases that the magnitude of impact is not high and therefore, while disturbance is possible, it would not be deemed to be significant in the context of the conservation objectives for the site. We can therefore conclude that provided adherence to the ADD deployment plan can be conditioned as part of any planning approval, and that no changes are made without formal agreement from the Local Authority, in their capacity as the Competent Authority, that this proposal will not compromise the ability of this conservation objective to be met.

Cumulative impacts

BDNC fish farm is located approximately 3km from the nearest fish farms at Poll na Gill (PNG) and southwest Shuna. The site at southwest Shuna is not currently permitted to use ADDs. MHS have the operating rights for southwest Shuna and are also submitting the applications for BDNC and PNG. They have confirmed that they intend to continue to operate southwest Shuna without the option of having ADDs as a preventative measure. PNG has an existing condition of no ADD use without further consent. However, PNG is subject to a current planning application and MHS have requested that this condition be removed in replacement of a similar ADD deployment plan as that which relates to BDNC. Both sites are owned and operated by the same company, MHS. Both sites propose the use of the same type of device and will follow the same protocol for its deployment, activation and deactivation.

The disturbance radii estimated for different ADD devices vary significantly. On account of the lower output of the Terecos device, the zone of disturbance is modelled to be significantly less than some

of the more powerful devices on the market. This has led some to question the effectiveness of the device as a seal deterrent. However, on account of the appropriate protocol for deployment at both sites (BDNC and PNG) and the predicted reduced zone of disturbance associated with the specific device that is proposed, we can conclude that the use of these devices at both sites, in line with the agreed deployment plan, would be unlikely to result in a blocked passage for harbour porpoise entering / exiting Seil Sound / Loch Melfort from / to the south. On this basis cumulative effects as a result of the combined use of ADDs (in line with the agreed deployment plans) at both PNG and BDNC are not considered likely to be significant.

PNG is located approximately 1.5km from Shuna Castle fish farm to the north. Currently ADD use at Shuna Castle is not managed by way of any condition linked to the planning consent. However, the information that we have relating to ADD use at Shuna Castle indicates that only one unit of the same lower powered terecos device is available for use at this site. The site also appears to have an appropriate deployment strategy in place which aims to prevent to continuous activation of the device. Instead its deployment, activation and deactivation are triggered in response to specific seal predation. However, as the use of ADDs at this site is not currently managed by way of a planning condition we have therefore considered how PNG may combine with Shuna Castle in a worst case scenario. In a worst case scenario a more powerful ADD device could be in use continuously at the Shuna Castle site. Seil Sound is approximately 2.5km wide at this location. Based on our current understanding, the use of a more powerful ADD device at Shuna Castle could theoretically result in an acoustically blocked passage to and from the south of Seil Sound. However, in this scenario any acoustic blockage would not be a consequence of the proposed use of lower powered ADDs, in accordance with the ADD deployment plan, at PNG. Any acoustic blockage would be a result of the theoretical use of higher powered devices at Shuna Castle. We cannot influence the management of ADDs at Shuna Castle through this application. However, we would expect ADD use at Shuna Castle to be considered fully in a separate HRA either through a review of consents process or during any future planning application to modify the site.

MHS also operate Port na Cro fish farm to the northeast of Shuna Island. There is currently a condition of no ADD use without prior agreement from the Planning Authority and SNH. MHS have confirmed that they intend to retain this condition and shall continue to operate the site without the use of ADDs. Ardmaddy South, though not in operation, also includes a condition of no ADD use without prior agreement from the Planning Authority. We can therefore discount these sites from the cumulative assessment.

Based on the appraisal above we conclude that this proposal will not, alone or in combination, hinder the achievement of this conservation objective

2c. The condition of supporting habitats and the availability of prey for harbour porpoise are maintained.

Harbour porpoise diet consists of a range of many different species of fish, squid, octopus and crustaceans. It is thought that herring, sprat and sand eel make up a large part of their diet in Hebridean waters. A range of chemicals are used by the aquaculture industry to control disease and parasites and it is likely that impacts could occur on certain prey items, particularly on species of crustacean. In addition, deposition of organic waste material within the allowable zone of effect will result in a localised reduction in available foraging habitat. However, both these impacts are generally restricted to within close proximity to the fish farm and are unlikely to result in any significant reduction in prey availability which could affect the biological fitness or survival of the population of harbour porpoise that currently use the SAC. In addition, SEPA is the Competent Authority for assessing any impacts as a result of chemical discharges and these will therefore be subject to a separate HRA process.

Cumulative impacts

Given the scale of the cSAC we do not consider localised reduction in the availability of benthic prey to be significant. Furthermore, these impacts that have largely occurred already, and while there will be a slight expansion in the area of sea bed that will be affected, we would not consider this increase to be significant in the context of the cSAC.

Based on the appraisal above we conclude that, in so far as the Local Authorities remit as competent authority is concerned, this proposal will not, alone or in combination, hinder the achievement of this conservation objective

STAGE 5: CAN IT BE ASCERTAINED THAT THE PROPOSAL WILL NOT ADVERSELY AFFECT THE INTEGRITY OF THE SITE?

In the light of the appraisal, ascertain whether the proposal will not adversely affect the integrity of the site for the qualifying interests. Conclusions should be reached beyond reasonable scientific doubt. If more than one SAC and/or SPA is involved, give separate conclusions. If mitigation or modifications are required, detail these below.

Conclusion

Based on the appraisal above we have concluded that this project will not adversely affect site integrity for the qualifying interests of the Natura site provided the mitigation below is adhered to.

Mitigation or modifications required to ensure adverse effects are avoided, & reasons for these.

Mitigation: 1) Any ADDs that are deployed will be done so in accordance with the agreed ADD deployment plan. Any changes to the plan must be approved by the LA 2) The operator must undertake reporting on ADD usage on site including confirmation that a log will be kept to record: 1. the exact dates when the device was operated; how often it was operated on that date; for what duration and what was the cue for its manual or auto-sensor operation 2. details of any predation events by seals and any predation measures (including ADD deployment) in use at that time should be logged 3. details of the person or persons responsible for maintaining the logs. ii. an undertaking that all logs will be maintained for review by the Planning Authority and/or SNH if deemed necessary by the Planning Authority.	Reason: 1) To prevent the continuous deployment / activation of the specified ADD devices in the SAC, thereby avoiding significant levels of disturbance 2) To ensure the Local Authority has access to information on ADD use on the site and has a mechanism to review and modify ADD use on the site in the future

ADVICE SOUGHT

Include here details of or clear reference to, advice sought from PAD staff, Natura team, Ops staff, Area colleagues etc. If no advice sought, give brief reasons/justification.

Advice sought from Caroline Carter, Karen Hall and Suz Henderson

CONCLUSION/ADVICE IN RELATION TO PLAN OR PROJECT

When SNH is the competent authority

In view of the appraisal above outline below whether the plan or project can be consented/approved/undertaken.

When SNH is advising the competent authority

In view of the appraisal above outline below the corresponding Natura model response position that will be used when advising the competent authority. Also include the response type from the [Development Management and the Natural Heritage](#) guidance as appropriate (see [Development Management and the Natural Heritage](#), Annex 2, Table 1 and guidance in Annex 3 of the Natura Casework Guidance)

Natura model response position:

5b. Likely significant effect but information provided/assessment already carried out shows that the effect on integrity can be avoided with changes/ mitigation

Development management response type:

Conditioned objection

Appraised by	Liam Wright
Date	12 February 2018
Checked by	Caroline Carter / Suz Henderson / Karen Hall
Date	20 th February 2018



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Planning and Regulatory Services
Argyll and Bute Council

By email only to: centralvalidationteam@argyll-bute.gov.uk
Cc: Alicia.kerr@argyll-bute.gov.uk

Date: 3 September 2018

Our ref: CDM151650 / A2697075
Your ref: 18/01561/MFF

Dear Sir / Madam,

18/01561/PP - Relocation and enlargement of existing marine fish farm (currently comprising; 12 No. 80 metre circumference cages and feed barge) by re-equipment with 12 No. 120 metre circumference cages and feed barge (Increase in biomass from 600 Tonnes to 2500 Tonnes of Atlantic salmon). East Tarbert Bay, Gigha.
TOWN AND COUNTRY PLANNING (SCOTLAND) ACT 1997 (AS AMENDED)

Thank you for your consultation dated the 25th July 2018 requesting comments on the above proposal.

1. Background

We understand the proposal is to remove all existing cages from the existing fish farm and to install new cages and associated farming equipment approximately 300 m east of original fish farm site. The new site will comprise 12 x 120 m cages held in 65 m x 65 m grid formation and a feeding barge will be installed adjacent to the site. It is also understood that the proposal wishes to increase the maximum standing biomass from 600 tonnes to 2500 tonnes.

The East Tarbert Bay fish farm proposal lies within the Sound of Gigha proposed Special Protection Area (pSPA) selected for its qualifying interest of wintering great northern diver, red-breasted merganser, eider and Slavonian grebe.

SNH previously provided advice on the proposal at Screening / Scoping stage.

2. Summary of Advice

2.1 Protected species. The proposal could affect a nationally important population of a protected species as described in the accompanying confidential Annex A. Note that we either **object to the**

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Tel: 0131 3162690 www.nature.scot

Dualchas Nàdair na h-Alba, 1 Raon Gnìomhachais Chille Mhoire, Cille Mhoire, Ceann Loch Gilb Earra-Ghàidheal PA31 8RR
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proposal until the further information we have requested is supplied, and/or we object to the proposal unless conditions are put in place to mitigate the potential impacts on the population. Note the former requested information may negate the need for the latter position. Our advice on this matter can be found in Annex A - Confidential.

2.2 Sound of Gigha proposed Special Protection Area.

This proposal could be progressed with appropriate mitigation. However, because it could affect internationally important natural heritage interests, **we object to this proposal unless it is made subject to conditions so that the works are done strictly in accordance with the mitigation detailed in our appraisal below** (and Annex B).

The relocation of the proposed fish farm will cause a Likely Significant Effect for the designated species of interest as a result of potential effects on mortality, disturbance from vessel movements, displacement of foraging areas and loss or damage to supporting habitat. Therefore, Argyll and Bute Council will be required to undertake an Appropriate Assessment for the Sound of Gigha pSPA. If mitigation procedures, as advised in Annex B, are followed, the magnitude of the effects are predicted to be low, such that we would anticipate that no adverse effect on site integrity is expected following the Appropriate Assessment. Our advice on this issue is contained in Annex B.

2.3 Benthic Impacts / Horse mussel beds Priority Marine Feature habitat. Horse mussels occur in the general area, but we consider it unlikely that this proposal will result in any significant impacts on the national status of the horse mussel beds PMF habitat. We provide our advice on this matter in Annex C.

2.4 Inner Hebrides and the Minches candidate Special Area of Conservation.

This proposal is likely to have a significant effect on the harbour porpoise interest of the site. Consequently, Argyll and Bute Council, as competent authority, is required to carry out an appropriate assessment in view of the site's conservation objectives for its qualifying interest. In our view, based on the information provided, the proposal will not adversely affect the integrity of the site. We provide our advice on this matter in Annex D.

2.5 We accept the findings of the Landscape and Visual Impact Assessment.

If you have any queries regarding this advice, please contact Stan Phillips at our Lochgilphead office, contact details as per our address or telephone number at the foot of the first page.

Yours sincerely,

[by email]

David MacLennan
Area Manager
Argyll and Outer Hebrides

Annex A – Confidential

Please see separate confidential document.

Annex B – Sound of Gigha proposed Special Protection Area.

The East Tarbert Bay fish farm proposal lies within the Sound of Gigha proposed Special Protection Area (pSPA) selected for its qualifying interest of wintering great northern diver, red-breasted merganser, eider and Slavonian grebe.

Background

This is a request for advice on an Environmental Impact assessment Report (EIAR) to relocate and enlarge an existing marine fish farm from 12 x 25.5m cages arranged within a 50m grid to 12 x 38m cages arranged within a 65m grid, 280m east of the current location.

The total proposed increase in moorings area is 188,372m². Installation of a feed barge is also proposed to be installed at the relocated site, which is predicted to decrease boat traffic to and from the site as well as potentially lessening the amount of excess feed reaching the seabed. The fishfarm will be active 22 months out of every 24.

Decommissioning of the old site is expected to take 7-10 days. Installation of the relocated site is expected to take a further 7-10 days. The developer intends these activities to take place between June and August.

SNH position

In our view, this proposal is likely to have a significant effect on the wintering great northern diver, red-breasted merganser, eider and Slavonian grebe populations of the Sound of Gigha proposed Special Protection Area. Consequently, Argyll and Bute Council, as competent authority, is required to carry out an appropriate assessment in view of the site's conservation objectives for its qualifying interest(s). To help you do this, we advise that in our view on the basis of the appraisal carried out to date, if the proposal is undertaken strictly in accordance with the following mitigation, then the proposal will not adversely affect the integrity of the site:

- **Gillnets are NOT used as a method for recovering escaped fish, as proposed in the EIAR, when wintering birds are present (mid-August-mid-May; the period which encompasses all qualifying species).**
- **No anti-predator nets to be used.**
- **The proposed decommissioning and installation timing of between June and August is adhered to.**
- **The code of conduct laid out in the Table 32 of the EIAR for boat movements should be strictly adhered to.**

The appraisal we carried out considered the impact of the proposals as outlined below.

Consequently, **we object to this proposal unless it is made subject to conditions** which address the issues above.

Summary

The relocation of the fishfarm will cause a Likely Significant Effect (LSE) for the designated species of interest as a result of potential effects on mortality, disturbance from vessel movements, displacement of foraging areas and loss or damage to supporting habitat. Therefore, **an Appropriate Assessment will be required from Argyll and Bute Council for the Sound of Gigha pSPA.**

The magnitude of the effects are predicted to be low providing strict mitigation and best practice procedures are followed, such that we would anticipate that no adverse effect on site integrity is expected following the Appropriate Assessment. However, no cumulative assessments for designated species of interest were carried out for the EIAR: this will need to be considered within the AA, and may change the outcome of predicted no Adverse Effect on Site Integrity.

It is recommended that gillnets are NOT used as a method for recovering escaped fish, as proposed in the EIAR, when wintering birds are present (mid-August-mid-May; the period which encompasses all qualifying species). Nor should any anti-predator nets be used. The daily checking of net tensions to mitigate against bird entanglements is welcomed. Any instances of entanglement should be reported immediately to SNH.

It is also recommended that their proposed decommissioning and installation timing of between June and August is adhered to, to avoid the non-breeding timings of the qualifying species of interest. However, the developer is to note that eiders are in moult from mid-June to October, and so are less able to move away from vessels during this period. The best practice procedures laid out for vessel movements and also for ensuring strict water quality procedures are welcomed.

Summary table

Protected site	Potential effect	Species	Likely Significant effect?	Predicted Adverse Impact on Site Integrity?
Sound of Gigha pSPA	Mortality	Great-northern diver Common eider Red-breasted merganser Slavonian grebe	YES	NO, provided mitigation followed.
	Disturbance from vessel movements	Great-northern diver Common eider Red-breasted merganser Slavonian grebe	YES	NO, provided boat-based practices followed.
	Displacement from foraging areas	Great-northern diver Common eider Red-breasted merganser Slavonian grebe	YES	NO
	Loss or damage to supporting habitat	Great-northern diver Common eider Red-breasted merganser Slavonian grebe	YES	NO, provided mitigation followed but requires cumulative assessment to ascertain if combined effects would cause AESI.

Appraisal of protected site and qualifying features

The Sound of Gigha proposed Special Protection Area (pSPA) selected for its qualifying interest of wintering great northern diver, red-breasted merganser, eider and slavonian grebe.

Qualifying species:

Great northern diver: non-breeding season is October to mid-May (inclusive). Sound of Gigha pSPA supports the second largest aggregation of non-breeding great northern divers in Scotland. The proposed area for the relocation of the fish farm is within the greatest density of great northern divers (SNH, 2016).

Common eider: non-breeding season is September to mid-April, with moult taking place for eider between mid-June to October. The proposed area for the relocation of the fish farm is within the greatest density of eiders (SNH, 2016).

Red-breasted mergansers: non-breeding season is mid-August to March (inclusive). Distribution of red-breasted mergansers is low in the proposed fish farm location (SNH, 2016).

Slavonian grebe: non-breeding season is mid-September to April (inclusive). Slavonian grebes were an additional species following the original site selection documentation. Slavonian grebe numbers are found in large numbers in the region near the fish farm.

Potential impacts:

Overall approach:

The developer's appraisal on ornithological species of interest is summarised in Table 31 of the EIAR. The EIAR has assessed that no Likely Significant Effects are present for any of the qualifying features of the pSPA for any of the potential effects. We disagree with this assessment and would advise that Likely Significant Effect is a more precautionary concept than how it has been assessed in the EIAR.

Mortality through entanglement

Operation

Bird nets: mesh sizes given in the supporting document uses 25mm mesh for bottom of walls, 100mm mesh for top 3m of wall and top section to have mesh of 300mm. Bird and cage netting daily checks for tensioning and high site husbandry standards, as stated in the EIAR, are welcomed and are necessary in order to mitigate potential entanglement effects. An email from the developer on 13th August 2018 stated that *"There have been no incidences of recorded bird entanglement associated with operations at the existing East Tarbet site"*. Whilst the current fish farm set up have stated that no known mortality incidences have occurred as a result of their mitigation, recent guidance indicates that we cannot necessarily accept mitigation as a means to avoid Likely Significant effects. Procedures on daily net checks and monitoring should continue, as should reporting to SNH should any entanglement event occur.

The suggested use of gillnets as a way of recapturing escaped fish is contrary to the recommended management measure for the new pSPA which states:

Prohibiting the use of set (gill) nets for capture of farm fish in the event of escape is recommended.

<https://www.nature.scot/sites/default/files/2017-12/Marine%20Protected%20Area%20%28Proposed%29%20-%20Advice%20to%20support%20management%20-%20Sound%20of%20Gigha.pdf>

We therefore recommend that **no gill nets are to be used in the event of escaped fish when wintering birds are present** (mid-August-mid-May; the period which encompasses all qualifying species).

Furthermore, in the Predator Control Plan it is stated that the use of anti-predator nets is not common practice for The Scottish Salmon Company. It should be reiterated that **anti-predator nets should not be used in this proposal**.

Due to the fact no entanglements have been recorded for the current fish farm, it is unlikely that there will be mortality through entanglement to such a level which would cause *significant* mortality to the qualifying features, as stated in the conservation objectives. Therefore, we would anticipate that no adverse effect on site integrity would be concluded following an appropriate assessment due to mortality. However, this should be reviewed if any future mortality events occur, following the relocation of the fish farm.

Disturbance from vessel movements

Red-breasted merganser and Slavonian grebes are classified as having a very high sensitivity to vessel movements, great northern diver is classified as high, and common eider as medium (Jarett *et al.* 2018).

The EIAR notes that great northern divers and eiders have been seen around the site but red-breasted mergansers have not been recorded (Table 32, page 46). Slavonian grebes were not mentioned. The distribution maps recorded in the Sound of Gigha pSPA site selection documentation demonstrates that the fish farm is in the densest area of the pSPA for eiders and great-northern divers, but in a low density area for red-breasted mergansers (SNH, 2016). Shore-based counts show that Slavonian grebes are in large numbers in the area close to the proposed fish farm location (mean of 15.7 birds over 18 winter surveys between 2008-2013). The EIAR also notes that “there does not appear to have been any significant impact, in terms of disturbance, of the qualifying species of the SPA”, but no indication as to how this has been quantified has been given.

Installation

The greatest disturbance is likely to occur during the decommissioning of the old fish farm and the installation of the new fish farm. The developer intends to carry this out between June and August to avoid the non-breeding periods of the qualifying species. This is welcomed, although it should be noted that eiders start to moult from mid-June onwards and are less able to move away from disturbance in this period. **The code of conduct laid out in the Table 32 for boat movements should be strictly adhered to.**

Operation

No additional increase in boat journeys are predicted: 2 trips per day to and from the site using a Polarcirkel work boat or RIB is expected. As the relocated fish farm is proposed to be further from the shore than its current location, the boat journeys will take marginally longer than before, but probably not notably so. We welcome the use of best practice procedures as laid out in Table 32 and would ensure that that is implemented into the management of the site.

Again, there is the potential for disturbance to occur, particularly for those species with high overlapping distributions (great northern diver and eider) during the operation of the fish farm. All species are predicted to be sensitive to disturbance caused by vessel activity, which could cause displacement from areas used for foraging, moult and shelter. Therefore, Likely Significant Effects are predicted for all species. However, there is not expected to be *significant* disturbance of the features so that the distribution of the species and ability to use the site is compromised. Therefore, we would anticipate that no adverse effect on site integrity would be concluded following an appropriate assessment due to vessel noise, provided best practice measures are implemented. It is welcomed that the route of any larger vessels servicing the proposed East Tarbet site will be similar to the current route and that measures will be taken to avoid any roosting sites of divers, eiders, or Slavonian grebes.

Displacement from foraging areas

Operation

The EIAR assessed the availability of the area that will be now limited to birds as being 0.052%, but this calculation was based on the entirety of the Sound of Gigha pSPA area which is not a true representation of the amount of area available to the qualifying species. The birds will to some extent be accustomed to where the current fish farm is, so may be displaced as a result of the relocation.

The depth profile from Figure 2 suggests that the fish farm footprint will be in water depths of between 10-50m, with the cages themselves being lowered to 10m within water of 50m depth. Great northern divers are capable of diving to depths in excess of 60m, whereas eiders and red breasted mergansers are more likely to feed at depths not exceeding 15m (SNH, 2016), and Slavonian grebes up to 25m depth (Furness *et al.* 2012). Red-breasted merganser distribution is low and none have previously been recorded in the site. Great northern divers and eiders are known to be in the area and therefore there is the potential for them to be displaced. Slavonian grebes are recorded in greatest densities to the east of the proposed site and are also have the potential to be displaced. The qualifying species will be feeding on a variety of fish but also on crustaceans and molluscs. As it is a relatively small area that they will be displaced from in relation to the entirety of the pSPA, it is unlikely to compromise the conservation objectives. Therefore, we would anticipate that no adverse effect on site integrity would be concluded following an appropriate assessment due to displacement during the operation of the fish farm.

Loss or damage to supporting habitats

The benthic habitat survey carried out as part of this proposal revealed burrowed mud, a potential horse mussel bed and muddy sand, all of which are high quality environments for diving birds. The increase of moorings area with the expansion of the fish farm is 188,372m².

Installation

The area of the horse mussel bed, if within the diving depths of the eiders, would be a potential foraging area for them. Depending on the anchoring set up of the fish farm this area could become damaged, which would reduce this food resource for the eiders in particular. From the benthic survey it appears this horse mussel bed has already been disturbed by fishing activity in the area, and it is not known how important this horse mussel bed is for the eiders.

Operation

Loss or damage to supporting habitat can occur due to organic waste from excess feed and farmed fish faeces is released into the environment. With the introduction of an automated feed system from the new feeding barge, it has been predicted that there will be less waste feed reaching the seabed. This potentially means the supporting habitat will not be as affected as much as the current set up. The EIAR also notes that the hydrographic conditions at the site means the dilution and dispersion of nutrients occurs within the water column. Mitigation measures are being put in place to minimise waste, and this is welcomed.

Damage to the habitat can also occur due to chemicals used in the treatment of the farmed fish. The developer intends to use emamectin benzoate or EMBZ. This chemical has been known to reduce crustacean abundance, which could have implications for the birds feeding on them. It is also a known neurotoxin to birds. It is the remit of SEPA to assess the potential effects of these chemicals on the surrounding environment and to ensure that measures are in place to minimise their effects.

There is a potential to affect the habitat. However, due to the relatively small area of the fish farm in relation to the overall pSPA, we would anticipate that no adverse effect on site integrity would be concluded following an appropriate assessment, provided mitigation procedures are strictly adhered to and following SEPA's own assessment on water quality and environmental effects of the fish farm.

Cumulative effects:

The EIAR did not take into consideration the cumulative effects of nearby fish farms in relation to potential effects on the qualifying species; it was only taken into consideration in relation to water quality (page 32). There is another fish farm less than 1km from the proposed new location and so there is the potential for a combined effect of disturbance and displacement from foraging areas. As the existing fish farm is also close to the additional SSC Druimyeon Bay site, there is not expected to be much change from the existing set up in terms of cumulative effects. Therefore, though Likely Significant Effects are predicted for all species, there is not expected to be such significant further impacts on the features that the site is compromised, provided the mitigation measures outlined above are implemented. Therefore, we would anticipate that no adverse effect on site integrity would be concluded following an appropriate assessment due to cumulative effects, **provided the mitigation measures outlined above are implemented.**

References

Furness, R.W., H.M., Robbins, A.M.C., Masden, E.A., (2012) Assessing the sensitivity of seabird populations to adverse effects from tidal stream turbines and wave energy devices. *ICES Journal of Marine Science*, 69, 1466–1479, <https://doi.org/10.1093/icesjms/fss131>.

Jarrett, D., Cook, A. S. C. P., Woodward, I., Ross, K., Horswill, C., Dadam, D. and Humphreys, E.M. (2018) Short-Term Behavioural Responses of Wintering Waterbirds to Marine Activity (CR/2015/17) Scottish Marine and Freshwater Science Vol 9 No 7
<https://data.marine.gov.scot/sites/default/files//SMFS%200907.pdf>

SNH (2016) Sound of Gigha Site Selection Documentation. <https://www.nature.scot/sound-gigha-proposed-marine-spa-supporting-documents>

Annex C – Benthic Impacts - Horse mussel beds Priority Marine Feature habitat.

Benthic Impacts

The majority of the benthos directly beneath the site consists of mud habitat, some of which may represent the PMF habitat, Burrowed Mud. However, this is not a high quality example of the habitat. Due to the widespread distribution of this PMF in Argyll, including areas of much higher quality habitat, we do not consider any potential impacts as a result of this proposal to be of regional or even local significance.

Areas of horse mussel were identified to the north of the proposal. These largely consisted of aggregations of horse mussels forming scattered clumps. We disagree with the survey report, which states that the horse mussels present would not be considered as a bed. We define [horse mussel beds](#) as being formed from clumps of horse mussels and shells covering more than 30% of the seabed over an area of at least 5 m x 5 m. Some of the areas identified in the survey appear as though they may meet this criteria and would therefore represent areas of the PMF habitat, horse mussel beds. This is supported in the seabed survey report which identifies many locations as having over 30% cover (some locations consist of 100% cover). Table 11 of the seabed survey report estimates the average cover of each transect and the average cover of the entire survey area. These figures range between 4.54-7.66% which is well below the 30% cover required for the habitat to be classified as a bed. However, these figures are misleading as they are estimates of average cover over the entire area, including areas where no horse mussels are present. If these figures are correct they may demonstrate that the entire area does not consist of a horse mussel bed. However, they do not demonstrate that no areas of horse mussel bed are present in the survey area. Contrary to this the survey report presents information which indicates that some areas of the horse mussels present may well in fact represent areas of horse mussel bed.

The benthic modelling report for this proposed expansion / relocation indicates that the vast majority (>99%) of the waste will be exported out with the modelled domain and will be dispersed widely before being deposited on the seabed. As such the benthic footprint for the proposal is very small and is restricted to within the direct footprint of the cages.

The information provided in the EIAR documentation does not provide a very clear representation of the areas of horse mussel in relation to the fish farm cages or AZE. However, using what information is available I estimate the closest horse mussel record to be approximately 80-100m from the closest cage edge. The occurrence and density of horse mussels generally increases with distance from the proposed development location, with the denser areas appearing to occur mostly beyond approx. 150m from the cage edge.

Horse mussels are considered to be sensitive to the pressures associated with finfish aquaculture. However, the energetic nature of this location is predicted to result in a very limited benthic footprint. The vast majority of waste is predicted to be transported out with the modelled domain and subsequently dispersed widely within and beyond the Sound of Gigha. The residual current runs in a south / south easterly direction and therefore much of the waste is likely to be transported away from the horse mussel records. In addition, the closest Horse mussels are positioned approx. 80-100m from cage edge with the density and occurrence generally increasing with distance from the proposed development. Taking these factors in to account we can consider the risk of any significant impacts occurring on any areas of horse mussel bed to be low. It is therefore unlikely that this proposal will result in any significant impacts on the national status of the horse mussel beds PMF habitat.

However, we note that it would appear as though the moorings could overlap with the most southerly records of horse mussels. This area appears to consist of fewer, less dense records of horse mussels and it is likely to be possible to avoid impacting these areas through the placement of moorings by using drop down video to microsite the moorings to avoid any areas of horse mussel.

Annex D – Inner Hebrides and the Minches candidate Special Area of Conservation.

The East Tarbert Bay fish farm proposal lies close to the Inner Hebrides and the Minches candidate Special Area of Conservation (cSAC) selected for its qualifying interest, harbour porpoise.

The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") or, for reserved matters, The Conservation of Habitats and Species Regulations 2017 apply. Consequently, Argyll and Bute Council is required to consider the effect of the proposal on the cSAC before it can be consented (commonly known as Habitats Regulations Appraisal). The SNH website has a summary of the legislative requirements (<https://www.snh.scot/professional-advice/safeguarding-protected-areas-and-species/protected-species/legal-framework/habitats-directive-and-habitats-regulations>).

There are natural heritage interests of international importance on the site, but in our view, these will not be adversely affected by the proposal.

In our view, this proposal is likely to have a significant effect on the harbour porpoise interest of the site. Consequently, Argyll and Bute Council, as competent authority, is required to carry out an appropriate assessment in view of the site's conservation objectives for its qualifying interest.

To help you do this we advise that, in our view, based on the information provided, the proposal will not adversely affect the integrity of the site. The appraisal we carried out considered the impact of the proposals on the following factors:

Risk of entanglement in cage nets and / or secondary predator nets

We are not aware of any cases of harbour porpoise becoming entangled in nets associated with the fish farming industry in Scotland. Therefore entanglement with cage nets or anti-predator nets is not considered to be a significant risk and we do not consider there to be a likely significant effect.

Risk of disturbance / exclusion of harbour porpoise as a result of the use of ADDs

The proposed fish farm site is located outside the cSAC and will only impact on the periphery of the southern boundary. The proposal itself is located within Gigha Sound, approximately 1 km from the boundary of the cSAC. However, the area of the cSAC which could be impacted by the use of ADDs is open and unconstrained in nature and is not considered to be at high risk of cumulative impacts. However, the sound frequencies emitted from the ADDs proposed at this site will extend to within the boundary of the cSAC. Harbour porpoise are known to be sensitive to the frequencies of sound that are emitted by most 'standard frequency' ADD devices. On this basis we conclude that the use of ADDs at this proposed has potential to result in the disturbance of harbour porpoise within the cSAC.

If ADDs are to be activated continuously, whilst the farm is stocked, then this could result in a significant disturbance and a long term exclusion of harbour porpoise from an area within the cSAC. However, in this instance, the applicant has submitted a detailed ADD deployment plan. The plan outlines an appropriate decision making process that will ensure that ADDs are not activated continuously. Instead, if they are required, they will be activated and deactivated in response to the identification of fish mortalities that can be attributed to seal predation. In doing so this will ensure that ADDs will not be activated continuously, over a long term period. We conclude that this will avoid the risk of resulting in any significant disturbance to the harbour porpoise feature of the cSAC.

In addition, the applicant has committed to keeping a record of ADD use at this site. This will ensure Argyll and Bute Council has a mechanism to review the use of ADDs at this site in the future.

In summary, provided the mitigation outlined in the ADD deployment plan is adhered to, we conclude that this proposal will not result in any adverse effect on the integrity of the Inner Hebrides and Minches cSAC.



Scottish Natural Heritage Dualchas Nàdair na h-Alba

All of nature for all of Scotland
Nàdar air fad airson Alba air fad

Argyll & Bute Council
Major Applications Team
1A Manse Brae
Lochgilphead
PA31 8RD

8 Feb 2019

Our Ref: CDM153973
Your ref: 18/02657/MFF

Dear Sir/Madam,

Town and Country Planning (Scotland) Act 1997

Proposal: Modification to equipment and biomass by increasing the number of pens from 12 to 14, increase the biomass from 2500t to a maximum biomass of 3500t and extension of mooring grid to accommodate the additional pens

I write in response to your consultation dated 21st January 2019 requesting comment from Scottish Natural Heritage regarding the above proposal. We advise Argyll and Bute Council that this application be subject to the following condition to ensure it does not have an adverse impact upon the integrity of the Inner Hebrides and the Minches Special Area of Conservation:

- Acoustic deterrent device (ADD) deployment will adhere to the principles and protocol set down in Annex 12, 13 and 14 of the documentation supporting this application. Any changes to these principles and protocol must be agreed by Argyll and Bute Council, in consultation with SNH.

The proposal lies within the Inner Hebrides and the Minches Special Area of Conservation (SAC) selected for its harbour porpoise interest. Background information on the SAC can be found at: <https://www.snh.scot/professional-advice/safeguarding-protected-areas-and-species/protected-areas/international-designations/natura-sites/harbour-porpoise-candidate>

The site's status as a SAC means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") apply. Consequently, Argyll & Bute Council is required to consider the effect of the proposal on the SAC before it can be consented (commonly known as Habitats Regulations Appraisal). The SNH website has a summary of the legislative requirements: (<http://www.snh.gov.uk/docs/A423286.pdf>).

The typical frequencies of ADDs are within the hearing range of harbour porpoise. A significant body of evidence exists to suggest that in some instances ADDs can result in the disturbance, displacement and potential hearing damage to harbour porpoise. The use of ADDs at this site will have a likely a significant effect on the harbour porpoise qualifying interest of the Inner Hebrides and the Minches SAC. The main impact relates to temporary displacement of this species from designated waters around the Colonsay fish farm.

Scottish Natural Heritage, Main Street, Bowmore, Isle of Islay, Argyll, PA43 7JJ,
Tel 01496 810711 Fax 01496 810665 www.snh.org.uk

Dualchas Nàdair na h-Alba, A' Phrìomh Shràid, Bogha Mòr, Eilean Ile, Earra-Ghàidheal, PA43 7JJ,
Fòn 01496 810711 Fax 01496 810665



INVESTOR IN PEOPLE

We advise that where the deployment of ADDs adheres to the principles and protocols detailed within the annex 12, 13 and 14 of the application supporting documentation, the impacts would be minimised to an acceptable level and that the proposal will not have an adverse impact upon the sites integrity.

Consequently, Argyll and Bute Council, as competent authority, is required to carry out an appropriate assessment in view of the site's conservation objectives for its qualifying interests and we would advise the implementation of a planning condition to ensure that any displacement is minimised to acceptable levels.

Please do not hesitate to contact me if you require any further information regarding the above.

Yours sincerely

Colin MacFarlane
Operations Officer
Argyll & Outer Hebrides
Colin.MacFarlane@snh.gov.uk

Shona Turnbull
The Highland Council
Glenurquhart Road
Inverness
IV3 5NX
By email to: epc@highland.gov.uk

Your ref: 18/05907/FUL
Our ref: CDM153767

19th February 2019

Dear Shona,

**MARINE FISH FARM – NEW SITE CONSISTING OF 12 X 120M CIRCUMFERENCE
CIRCULAR CAGES PLUS FEED BARGE, ISLE OF SCALPAY**

Many thanks for your email of 8th January consulting us on this planning application.

Summary

The proposal could affect the Inner Hebrides and the Minches Candidate Special Area of Conservation (cSAC) selected for its harbour porpoise interest. However, based on the information provided, this is unlikely to result in an adverse impact on site integrity. It should be noted that our advice is based on the ADD Deployment Plan provided (Appendix 5.3a of the application), and the use of Terecos units. We recommend that you consider whether conditions are required to ensure the development is implemented as proposed.

We also provide advice about impacts on other aspects of the natural heritage in our appraisal below.

Appraisal of the impacts of the proposal and advice

Inner Hebrides and the Minches cSAC

This proposal is located within the Inner Hebrides and the Minches candidate Special Area of Conservation (cSAC), designated for its population of harbour porpoise.

The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") or, for reserved matters the Conservation of Habitats and Species Regulations 2010 as amended apply. Consequently, The Highland Council is required to consider the effect of the proposal on the cSAC before it can be consented (commonly known as Habitats Regulations Appraisal). The SNH website has a summary of the legislative requirements (<https://www.nature.scot/professional-advice/planning-and-development/environmental-assessment/habitats-regulations-appraisal-hra/habitats-regulations-appraisal-hra>).

In our view, this proposal is likely to have a significant effect on harbour porpoise within Inner Hebrides and the Minches cSAC because the predator control plan includes the use of acoustic deterrent devices (ADDs). Consequently, The Highland Council is required to carry out an appropriate assessment in view of the site's conservation objectives for its qualifying interest. To help you do this, we advise that in our view, on the basis of the information provided and the appraisal carried out to date, it will not adversely affect the integrity of the site. The advice from our appraisal is as follows:

- The hearing range of harbour porpoise includes the sound frequencies emitted by the proposed ADD model. The use of ADDs may result in disturbance/habitat exclusion¹. The evidence of impacts on cetaceans from ADDs currently in use is varied and is dependent on many variables (e.g. noise characteristics of device, how the device is used, the topography, animal behaviour and importance of the area/habitat where the ADD is being used).
- The area around the proposed fish farm has a number of other fish farms which currently use, or have the option to use, ADDs and therefore there is the potential for cumulative impacts, particularly at the southern end of Sound of Raasay.
- The ADD deployment plan indicates that, if required, the developer will deploy two Terecos ADD units. Terecos have lower source levels than many other commercially available devices. Lepper et al. (2014)² quote the Terecos DSMS-4 as having a source level of 178 dB re 1 µPa (RMS). Northridge et al (2010; 2013)³ considered the use of Terecos and found a possible reduction in acoustic behaviour out to 1km, in one case, and no significant disturbance in another.
- In addition, the ADD deployment plan indicates that even when switched on the devices will not sound continuously. The developer's ADD policy states that maximum percentage of days in the production cycle that the devices are operational is required to be ≤ 40%.
- Conservation Objective 2b states that the distribution of harbour porpoise throughout the site is maintained by avoiding significant disturbance. Significant disturbance in this context is where changes to the distribution of harbour porpoise occur on a continuing or sustained basis. In this case the combination of Terecos devices and the ADD deployment plan proposed means there will be no adverse effect on the integrity of the cSAC.
- However, the Environmental Statement makes reference to alternative ADD devices and the ADD deployment plan also refers to deployment of Terecos devices 'in the first instance'. Use of alternative devices may have greater effects and we therefore recommend that you consider whether it is necessary to condition the ADD deployment plan.

¹ For example - **Coram A.**, Gordon J., Thompson D. & Northridge S. 2014. Evaluating and assessing the relative effectiveness of non-lethal measures, including Acoustic Deterrent Devices on marine mammals. Scottish Government

Götz T., & Janik V.M. 2013 Acoustic deterrent devices to prevent pinniped depredation: efficiency, conservation concerns and possible solutions. *Marine Ecology Progress Series* 492: 285-302

² **Lepper P.A.**, Gordon J., Booth C., Theobald P., Robinson S., Northridge S. & Wang L. 2014. Establishing the sensitivity of cetaceans and seals to acoustic deterrent devices in Scotland. Scottish Natural Heritage Commissioned Report no. 517

³ **Northridge S.P.**, Gordon J.G., Booth C., Calderan S., Cargill A., Coram A., Gillespie D., Lonergan M. & Webb A. 2010. *Assessment of the impacts and utility of acoustic deterrent devices*. Final report to the Scottish Aquaculture Research Forum, project code SARF044

Northridge S., Coram A. & Gordon J. 2013. Investigations on seal depredation at Scottish fish farms. Edinburgh. Scottish Government

Supplementary advice regarding the ADD deployment plan

- Any Acoustic Deterrent Devices (ADDs) that are deployed at this site will be done so in accordance with the agreed ADD Deployment Plan (Appendix 5.3a of the application). Any future changes to the plan must be agreed with the Planning Authority.
- The operator must undertake reporting on ADD usage at the site including:
 1. The exact dates when the device was operated, how often it was operated on that date, for what duration, and what was the cue for its manual or auto-sensor operation;
 2. Details of any predation events by seals and any anti-predation measures (including ADD) deployment) in use at the time should be logged;
 3. Details of the person (or persons) responsible for maintaining the logs;
 4. An undertaking that all logs will be maintained for review by the Planning Authority and/or SNH, if deemed necessary by the Planning Authority.
- This is a new farm and our policy is that in the first instance the developer should consider if it is possible for the site to be operated without the use of ADDs. The Environmental Impact Assessment Report considers and discounts some alternatives, such as use of predator nets, but the assessment is incomplete. In particular we recommend consideration of some of the new seal-proof cage nets which are now available and being used successfully at other fish farm sites.
- While the use of 2 x Terecos ADD devices as currently proposed is likely to be acceptable, swapping to alternative ADD devices (if the Terecos prove to be ineffective) may not be. We understand that swapping cage nets part way through a production cycle would be difficult and, given the proximity of significant seal haul-outs, it would be prudent for the developer to fully consider all alternatives at the outset.
- It would be beneficial if the applicant could produce an integrated plan for their fish farms in this area, as has been done for the Sound of Mull. This will need to ensure that not all of their farms are using ADDs at the same time, potentially creating a significant, cumulative effect on cetaceans using the area.

We recommend that you consider whether it is necessary to impose conditions to achieve the above mitigation. You may wish to carry out further appraisal before completing the appropriate assessment.

Other cetacean species may also use the area of the proposal site. All cetaceans are European Protected Species and similar issues regarding disturbance/habitat exclusion apply to those species and effects on them would also be mitigated by the measures outlined above.

Benthic impacts/Priority Marine Features (PMFs)

The proposal will impact Priority Marine Features (PMFs). The Highland Council should consider the effect of the proposal on the PMF(s) before consenting. We advise that the proposal does not raise any issues of national interest regarding PMF habitats or species. Our appraisal below provides further information.

From analysis of the visual benthic survey provided by the applicant, and carried out in 2015, we can confirm that some areas of the burrowed mud habitat and at least one tall seapen are

present, both of which are PMFs. However, on account of the extent and quality of the burrowed mud that is present and, the absence of any high densities of key component PMF species, we do not consider the potential impacts to be significant.

Protected Species

White-tailed eagles have bred nearby to the proposal site in the past, and as a Schedule A1 and Schedule 1A species they are afforded special protected status. However, as there are currently no nest or roost sites close to the proposal we do not foresee any impacts in terms of disturbance.

Landscape

A Landscape and Visual Impact Assessment has been carried out as requested, following our 'Aquaculture in the landscape' guidance. This includes an assessment of visibility and a series of photomontages representative of the main sensitive receptors, including those we recommended in our scoping response, as well as photos from the summit of Beinn na Caillich.

We agree with the conclusions of the LVIA report, and are satisfied that the proposal is unlikely to adversely affect the special qualities of The Cuillin Hills National Scenic Area (NSA).

Please let me know if you would like clarification or any further advice regarding this case.

Yours sincerely,

Kirsty North
Operations Officer
South Highland
kirsty.north@nature.scot

Morag Ferguson
Planning Officer
Planning Department
Comhairle nan Eilean Siar
Balivanich
Isle of Benbecula
HS7 5LA

Our Ref: CNS/DCWI/U&B/CDM155280
Your Ref: 19/00180/FFAES

Date: 24 June 2019

Dear Morag,

TYPE OF APPLICATION:	Fish Farm Planning Application (with ES)
PROPOSED DEVELOPMENT:	New Fish Farm
LOCATION:	Ushenish Fish Farm, Lochskipport, South Uist
GRID REF:	NF 86050 36487

Thank you for consulting us on the above application. As requested, the applicant has additionally submitted an Acoustic Deterrent Device (ADD) deployment plan, which allows us to conclude our advice on this application.

Summary

The proposed development lies outside of Inner Hebrides and the Minches Special Area of Conservation (SAC). This proposal could be progressed with appropriate changes. However, because it could affect internationally important natural heritage interests, **we object to this proposal unless it is made subject to conditions so that the works are done strictly in accordance with the changes detailed in our appraisal below.**

Appraisal of the Likely Impacts of the Proposal on Natural Heritage Interests:

Inner Hebrides and the Minches SAC

The proposal lies approximately 1.3km from the Inner Hebrides and the Minches SAC designated to protect Harbour porpoise. The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") apply. The SNH website has a summary of the legislative requirements.

<https://www.nature.scot/sites/default/files/2017-06/A423286%20-%20Legislative%20requirements%20for%20European%20Sites.pdf>

Harbour porpoise

The applicant has included the use of ADDs as part of their Predator Mitigation Plan. The typical frequencies of ADDs are within the hearing range of harbour porpoise. A significant

body of evidence exists to suggest that in some instances ADDs can result in the disturbance and displacement of harbour porpoise. The evidence of impacts on cetaceans from ADDs currently in use is varied and is dependent on many variables (e.g. noise characteristics of device, how the device is used, the topography, animal behaviour and importance of the area/habitat where the ADD is being used).

We advise that a 3km indicative disturbance distance is used when assessing applications. This distance is based on evidence in scientific literature and on our internal modelling exercise, and should be used to assess the indicative spatial extent of disturbance. The proposed site lies 1.3km from the boundary of the SAC.

In our view, this proposal is likely to have a significant effect on harbour porpoise designated within the above SAC. Consequently, Comhairle nan Eilean Siar is required to carry out an appropriate assessment in view of the site's conservation objectives for its qualifying interests. Provided the ADD deployment plan is adhered to and the following conditions are applied, then we can conclude there will be no adverse effect on site integrity.

Conditions to ensure that there will be no adverse effect on site integrity:

- Any ADDs that are deployed at this site will be done so in accordance with the agreed ADD deployment plan (provided by the applicant on 11 June 2019 and attached to the accompanying email). Any future changes to the plan must be agreed with the Planning Authority.
- As highlighted in the ADD deployment plan the operator must undertake reporting on ADD usage at the site including:
 - The exact dates when the device was operated, how often it was operated on that date, for what duration, and what was the cue for its activation.
 - Details of any predation events by seals and any anti-predation measures (including ADD deployment) in use at the time should be logged.
 - Details of the person (or persons) responsible for maintaining the logs.
 - An undertaking that all logs will be maintained for review by the Planning Authority and/or SNH, if deemed necessary by the Planning Authority.
- The Planning Authority should maintain the ability to require future changes to the ADD deployment plan should it, upon review of the logs, consider it necessary.

If the planning authority intends to grant planning permission against this advice without the suggested changes, you must notify Scottish Ministers.

Additional Advice

Benthic impacts and Priority Marine Features (PMFs)

The proposal will impact Priority Marine Features (PMFs). Comhairle nan Eilean Siar should consider the effect of the proposal on the PMF(s) before consenting. We advise that the proposal does not raise any issues of national interest regarding PMF habitats or species. Our appraisal below provides further information.

Scottish Natural Heritage, Stilligarry, South Uist. HS8 5RS
Tel 01870 620238 www.nature.scot

Dualchas Nàdair na h-Alba, Stadhlaigearraidh, Uibhist a Deas. HS8 5RS
Fòn 01870 620238 www.nature.scot

From analysis of the visual benthic survey provided by the applicant, we can confirm that burrowed mud habitat is widespread across much of the site; However, there were no notable component features present such as sea pens or fireworks anemones. As such we have no significant concerns about the potential impacts on the PMF habitat burrowed mud.

The PMF habitat northern sea fan and sponge communities are also present in some locations across the site. Northern sea fan (*Swiftia pallida*) is also a PMF species in its own right. The areas of northern sea fan and sponge communities habitat that are present are very limited in extent, being found on only a few rocky outcrops which are sparsely distributed across the site. Given the limited extent of the habitat that is present we would not consider any potential impacts as a result of the fish farm as likely to result in any significant impacts on the national status of the northern sea fan and sponge communities PMF habitat.

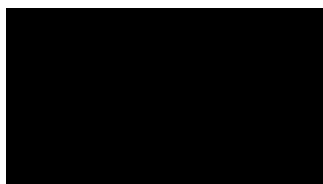
Protected Species

White tailed eagle are listed on Schedule 1A under the Wildlife and Countryside Act 1981. It is an offence to recklessly or intentionally harass a Schedule 1A bird.

There are records of White-tailed eagle breeding between 500m and 1000m of the proposed site. It is likely that white-tailed eagles will habituate to the presence and operation of a fish farm at this distance, however the installation of the fish farm may cause disturbance if carried out during the breeding season. We advise that the installation is carried out, outside the white-tailed eagle breeding season (1 February – 1 August). If the fish farm is installed during the breeding season, the developer should undertake a survey (carried out by a suitably qualified and licensed bird surveyor) prior to installation to check known nest sites and other suitable habitat within 1km of the fish farm site for breeding white-tailed eagles. If a breeding attempt is located within this distance, installation should be delayed until the end of the breeding season. We advise that this is a condition of any consent given.

Any use of helicopters associated with fish farm operations may also cause disturbance to breeding eagles and we would advise that SNH guidance (The use of helicopters and aircraft in relation to disturbance risks to Schedule 1 & 1A raptors and wider Schedule 1 species June 2015) is followed.

Please contact me if you need any further information.



Rach Cartwright
Operations Officer
Argyll & Outer Hebrides

Scottish Natural Heritage, Stilligarry, South Uist. HS8 5RS
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Appendix E

Sound of Mull ADD Deployment Plan

ADD Deployment Plan for SSF Sound of Mull Farms.

Fish farms can attract predatory species including seals and if not managed, seals can cause damage to stocks and equipment, potentially leading to stock escapes, and sufficiently stress farmed stock to affect production. In addition to seeking to limit the loss of stock from both an economic and environmental perspective, Scottish Sea Farms have fundamental ethical and legal duty of care to protect the health and welfare of farmed stock. Implementation of anti-predator measures are therefore essential to protect farmed stocks.

The Predator Exclusion Plans for all Sound of Mull sites set out a sequential approach to anti-predator measures which takes a balanced approach to protection of farmed stocks and minimising effects on non-target wildlife. While high quality tensioned cage nets are the first line of defence against seal predation, ADD use is an essential secondary deterrent for seals, in the event that tensioned netting does not deter seal predation. As net design improves and SSF's nylon net stock reduces then the use of polyethylene nets is anticipated to reduce seal predation and therefore the use of ADDs.

1. The marine farms covered in this ADD Deployment plan are **Scallastle, Fishnish A, Fishnish B, Fiunary, & Bloody Bay**.



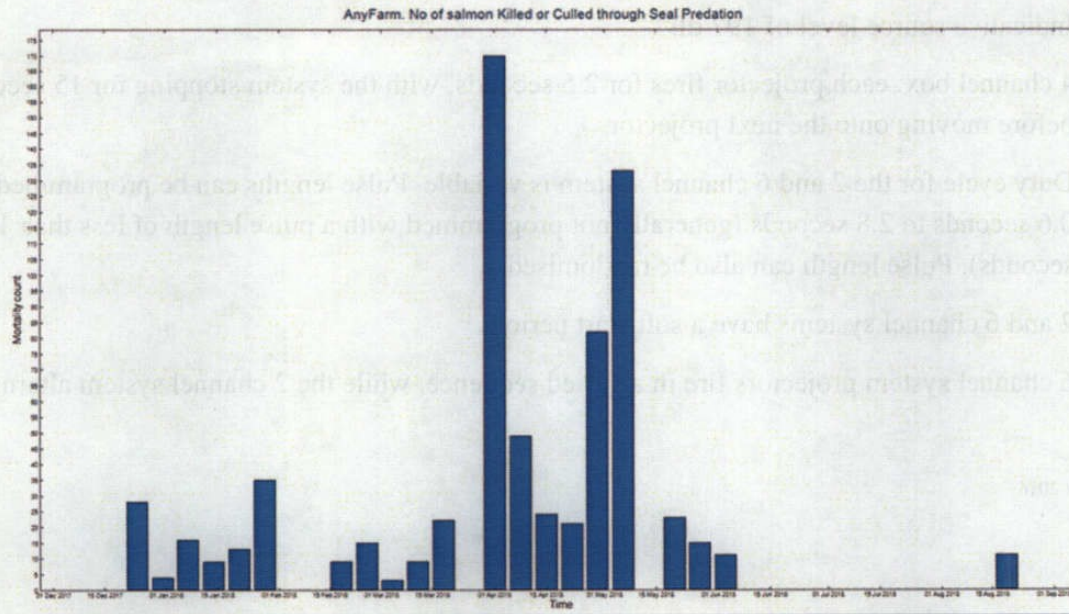
2. All farms above will be provided with AirMar dB Plus II projectors

3. Farms above will each contain a manufacturer-defined deployment specification
4. Farms above will each have a unique defined component specification
5. Farms above will maintain a record form: "ADD Inspection, Clean/Maintenance Record" in their Marine Folder: 10
6. Farms above will maintain a daily Log monitoring seal interaction and ADD usage. This record is called "Daily sheet/ADD Record Sheet." It is a farm manager's responsibility that this form is completed daily. Forms are filed in folder 20 section 1.
7. The daily farm logs will be made available to Argyll and Bute Council and SNH on request.

Daily Seal /ADD record sheet

							issue date:		
	Seals	Seal Activity	Net interaction	Fish behaviour	Fish interaction	ADDs	ADDs	ADD Management	Sign Off
Date	number seen, SPECIES	Behaviour, how near cages	none, abrasion, damage, holes - state what	stress, feeding, swim pattern	seal damaged mortalities (no)	Model in Use	In use continuously, night time only, not at all?	Weekly/Monthly Inspection/ Test/ Maintenance	Farm staff undertaking Inspection/ Test/ Maintenance
2-Nov-18									
3-Nov-18									
4-Nov-18									
5-Nov-18									
6-Nov-18									
7-Nov-18									
8-Nov-18									
9-Nov-18									
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29-Nov-18									
30-Nov-18									

8. Farms above will have net designs and test procedures in compliance with the Scottish Technical Standard from 01/01/2019
9. Farms above will have top nets fastened securely to the net wall
10. Farms will clear dead baskets a minimum of 3 times weekly.
11. Farms above will work towards the sole use of polyethylene mesh in combination with sinker tubes. This to be fully phased-in on all farms above by close of 2021.
12. The ADD manual will be available to all via SSF SharePoint.
13. All farms will be covered by a regional Seal Management Licence legally permitting seal destruction.
14. Farms agree to record any salmon losses as a consequence of seal predation as "Seal" in the SSF Fish Talk database. Where salmon are required to be culled as a consequence of seal predation these too are to be recorded under the title of "Seal" and added to the SSF Fish Talk database.
15. Farm managers should be able to demonstrate seal predation losses of salmon through running a Fish Talk graphic (eg. as below).



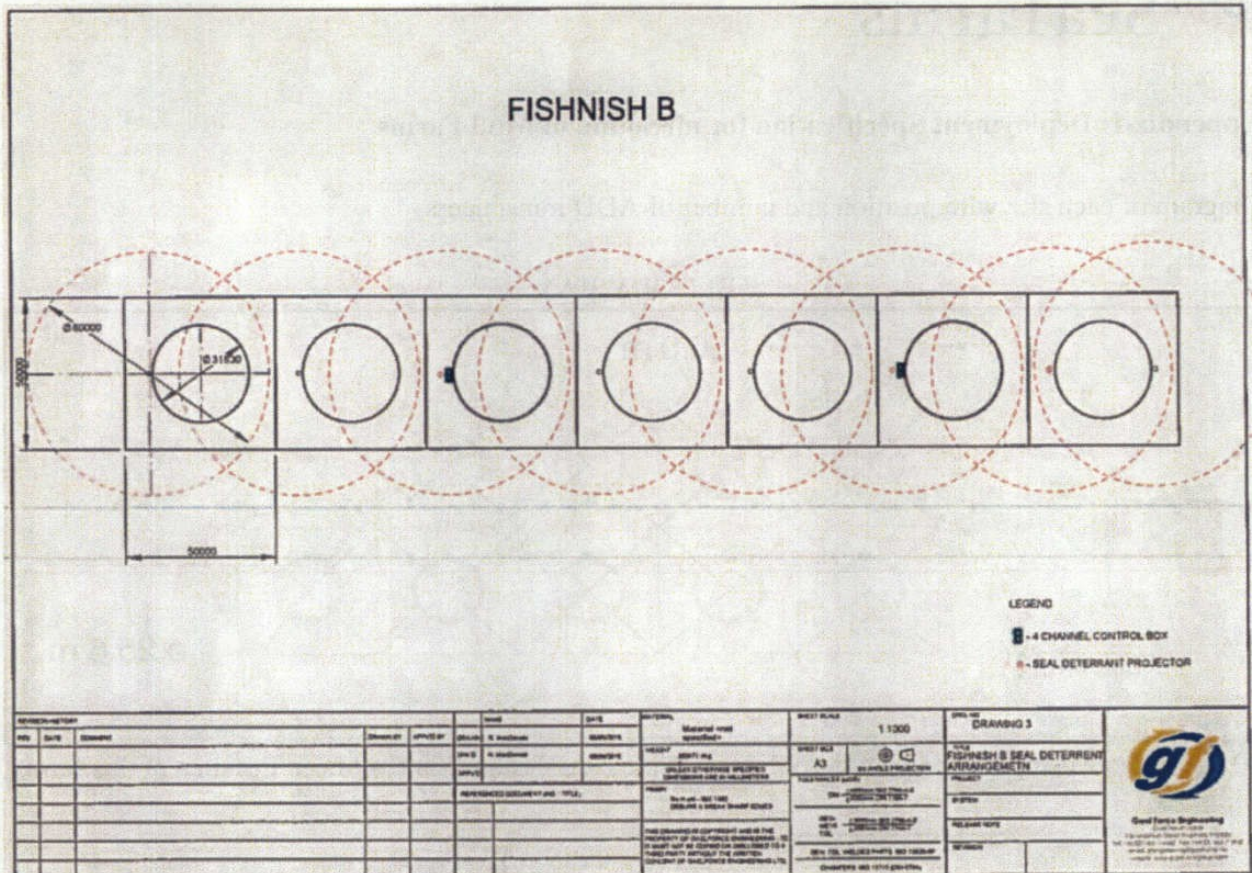
16. Where losses of salmon through seal predation are Zero on any preceding day the AirMar system must be switched to "Off/Standby".
17. Where losses of salmon through seal predation are confirmed during any deadening process then the cascade of actions is ...
 - A. to verify net tensioning (including that all weights of the correct size are in place at every downrope & deadbasket)
 - B. ensure that the sidewall is fully fastened to the top net to prevent any seal accessing the handrail
 - C. step up mortality removal to a minimum of every alternate day (including weekends)
 - D. checking that dead basket seating is correct & the base of the net is holding shape
 - E. ensure ADD functionality (but do not yet make operational)
18. Where the loss of salmon through seal predation, (despite A->D) is noted to have continued into a 3rd day then the farm should activate the ADD.
19. ADDs should be deactivated on-farm when two consecutive days deadening have resulted in zero fresh dead through seal predation.
20. Where losses of Atlantic salmon continue through seal predation despite the use of ADDs and fully functional net design then the normal procedures for seal destruction should be activated. When a target seal is destroyed then ADDs are switched off and the procedure starts again.
21. SSF commit to review, monitor and adapt future ADD use and predator control measures, including the consideration of alternative ADD systems and their method of operation.

AirMar dB Plus II Specification Notes.

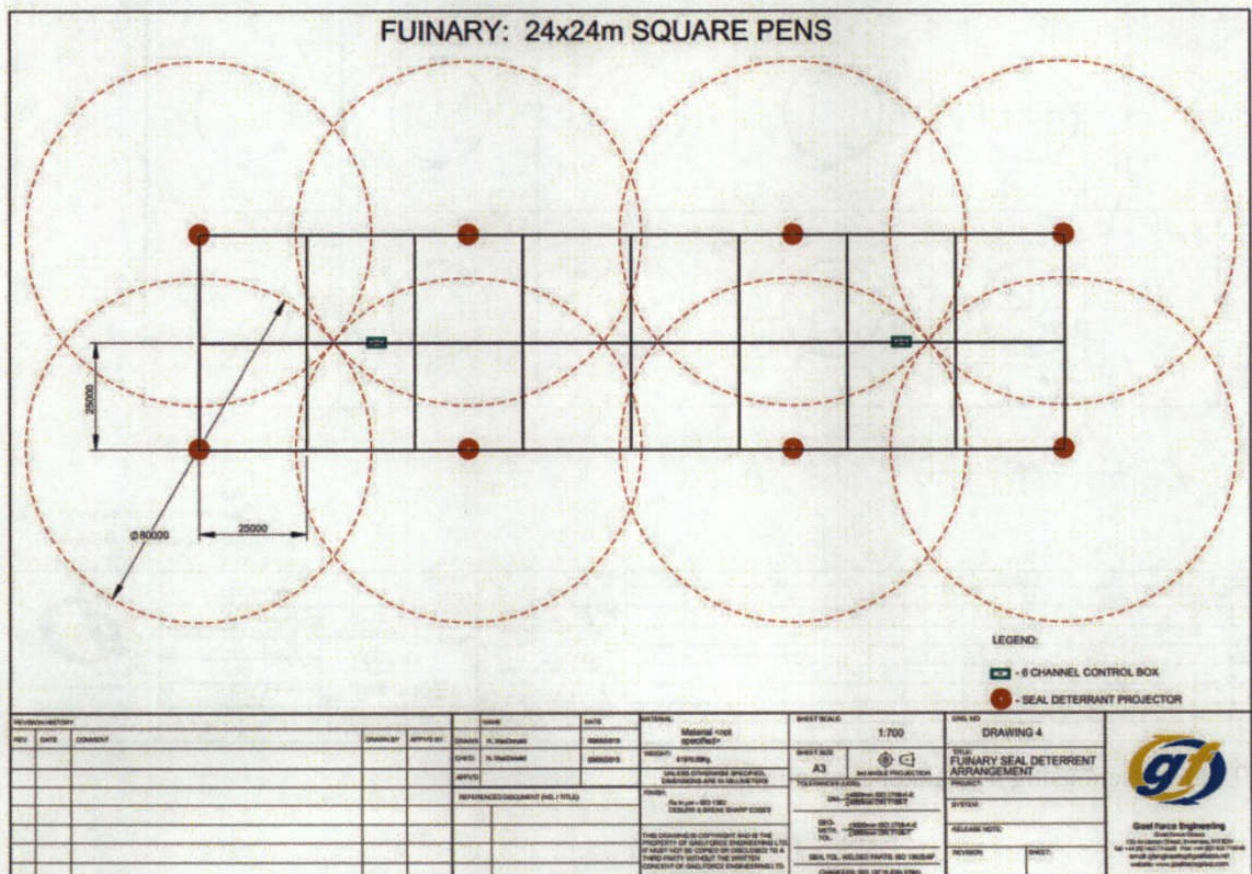
- Projectors operate at 10kHz and are considered to be effective up to 40m in all directions.

- Indicative source level of 197 dB
- 4 channel box: each projector fires for 2.5 seconds, with the system stopping for 15 seconds before moving onto the next projector.
- Duty cycle for the 2 and 6 channel system is variable. Pulse lengths can be programmed from 0.6 seconds to 2.8 seconds (generally not programmed with a pulse length of less than 1.5 seconds). Pulse length can also be randomised.
- 2 and 6 channel systems have a soft start period.
- 6 channel system projectors fire in a varied sequence, while the 2 channel system alternates.

1 September 2018

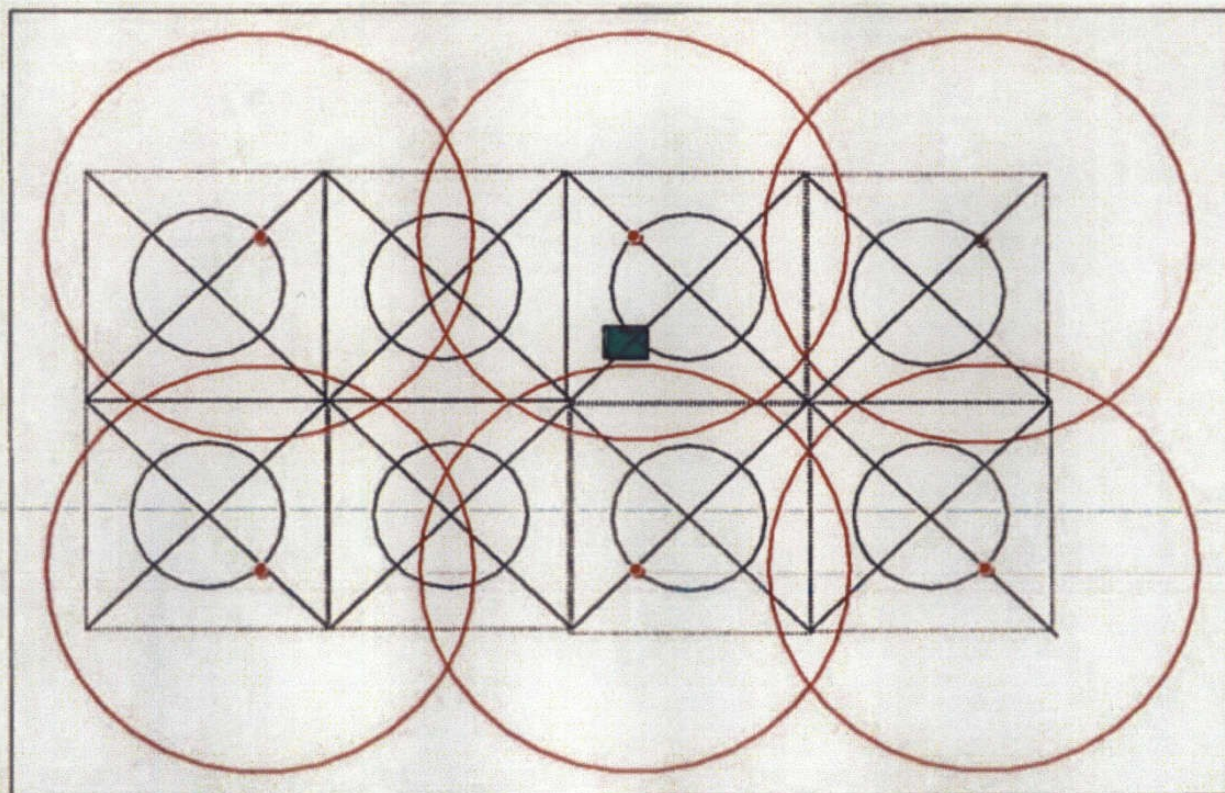


7 transducers using 4-channel control boxes



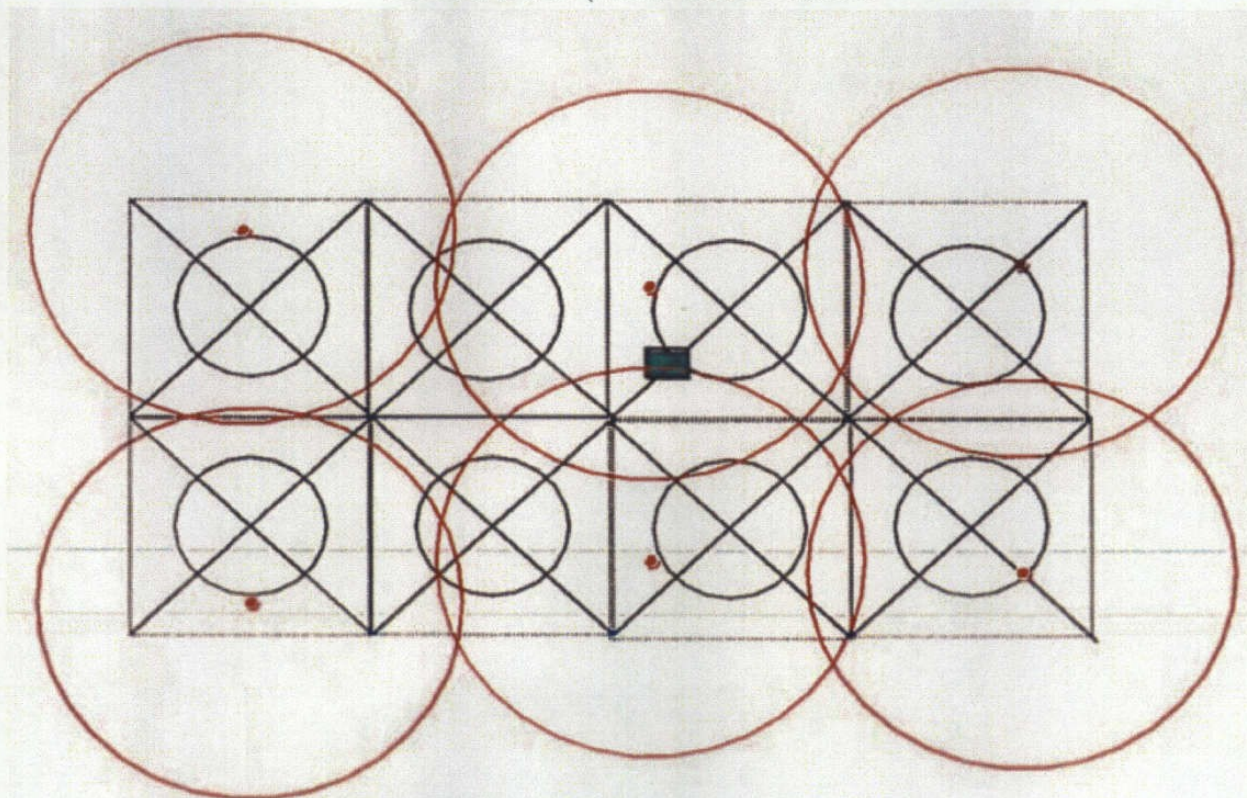
8 transducers using 4-channel control boxes

SCALLASTLE (EAST CAGE GROUP)



6 transducers using 6-channel control box

SCALLASTLE (WEST CAGE GROUP)



6 transducers using 6-channel control box



Scottish Natural Heritage
Dualchas Nàdair na h-Alba

All of nature for all of Scotland
Nàdar air fad airson Alba air fad

By email to: planning.oland@argyll-bute.gov.uk

Planning Services
Argyll & Bute Council
Municipal Buildings
Albany Street
Oban
PA34 4AW

Date: 2nd November 2018
Your ref: 18/02024/MFF

Dear Sir/ Madam,

ENVIRONMENTAL IMPACT ASSESSMENT (SCOTLAND) REGULATIONS 2011

PROPOSAL: Replacement of existing steel square cages with 10 x 100m circumference cages and retention of feedbarge (with no increase in biomass)

SITE ADDRESS: Fishnish A, Fish Farm Fishnish Craignure Isle of Mull Argyll and Bute

Thank you for your consultation dated 3rd October 2018 regarding the above planning application. Please find below our advice on the application.

Summary

In combination with other sites, this proposal will have a likely significant effect upon Inner Hebrides and Minches Special Area of Conservation (SAC). The applicant is requested to resubmit an ADD Activation Plan for the Sound of Mull that contains a protocol for all fish farms under the applicants control / ownership within the Sound of Mull. The plan will be informed by scientific appraisal to ascertain the acceptable number of devices that can be activated at the same time across the Sound of Mull. At this time we cannot determine that this proposal, in combination with other existing fish farms, will not have an adverse impact upon site integrity and therefore we object until the above information is provided.

Appraisal

Inner Hebrides and Minches Special Area of Conservation

Fishnish is located within the Sound of Mull, which falls within the boundaries of the Inner Hebrides and Minches Special Area of Conservation (SAC), designated for its

harbour porpoise population. The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") apply. Consequently, Argyll and Bute Council is required to consider the effect of the proposal on the SAC before it can be consented (commonly known as Habitats Regulations Appraisal). The SNH website has a summary of the legislative requirements.

As part of the predator protection strategy for the farm the applicant has submitted an Acoustic Deterrent Device (ADD) Deployment Plan for the Sound of Mull. Much of the content within this plan is welcomed and we note the positive proposals taken to reduce lethal control and minimise impacts upon non-target species. It is evident from this plan that the applicant will have 46 ADDs distributed across the Sound of Mull at 6 locations, with 10 being located at Fishnish.

The activation of ADDs at the same time across various fish farms within the Sound of Mull does concern us. Simultaneous ADD usage at some or all fish farms has the potential to cause significant disturbance and displacement to harbour porpoise within this area of the SAC. Additionally, there is also the possibility that such levels of ADD use could cause auditory damage to harbour porpoise. We advise that in combination within other existing sites, this proposal will have a likely significant effect upon the SAC and we could not rule out adverse impact upon site integrity at this time. Argyll and Bute Council will be required to undertake a Habitats Regulation Appraisal for this proposal.

The impacts detailed above are worst case, an indirect consequence of predator prevention measures and not intended by the applicant. We believe the likelihood of these impacts occurring can be reduced to an acceptable level by applying an activation protocol for use within the Sound of Mull. We would not support simultaneous activation of ADDs across all farms. The applicant should therefore:

- Provide a Sound of Mull ADD Activation Plan that contains a protocol for all fish farms under the applicants control/ ownership within the Sound of Mull. The plan will be informed by scientific appraisal to ascertain the acceptable number of devices that can be activated at the same time.

We would welcome discussion and review of the applicant's proposal before formal submission.

Mingarry Burn Special Area of Conservation

The Mingarry Burn SAC, which is designated for its freshwater pearl mussel interest is located approximately 19 miles from Fishnish. At this distance we feel there is potential for the proposal to have a likely significant effect upon the Mingarry Burn SAC, which is designated for its Freshwater Pearl Mussel (FWPM) population. The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") apply. Consequently, Argyll and Bute Council is required to consider the effect of the proposal on the SAC before it can be consented (commonly known as Habitats Regulations Appraisal). You may wish to use the following advice as part of this appraisal.

The applicant is seeking permission to change the farm infrastructure (6 square cages to 10 round cages) and amend the site footprint slightly from that of the existing fish farm. The applicant is not seeking an increase in the existing biomass and no significant changes in husbandry practices are proposed. We advise that the application is at the periphery of where a measurable effect upon individual sea trout or salmon within the burn could be detected, whilst any impact at the population level within the SAC would be associated with sites much closer.

As with the existing site the applicant will implement best practice in its husbandry, including lice treatment and escapee recapture procedures. The fish farm at Fishnish has been operational since the late 1980's, predating the designation, and has been part of the baseline aquaculture during this time. The condition of the Mingarry Burn SAC has altered from 'unfavourable declining' to 'unfavourable recovering' during this period, within positive management enhancing the riparian and stream bed habitats the main driver for this change. Surveys confirm that fish populations are not believed to be a limiting factor within the Mingarry Burn SAC and this site is one of few where sea trout and salmon play host to FWPM larvae. In conclusion, we advise that although the proposal could have a likely significant effect upon the Mingarry Burn SAC it will not have an adverse impact upon site integrity.

Loch Sunart to Sound of Jura Nature Conservation Marine Protected Area

We have reviewed the applicant's submissions and are satisfied that the application will have no significant adverse impacts upon the Loch Sunart to the Sound of Jura Marine Protected Area.

Priority Marine Features

We note that burrowed mud, which is a Priority Marine Feature, and associated component species were recorded within the application footprint. This habitat is extensive within this region and we are satisfied that the application will have no significant adverse impacts upon this Priority Marine Feature resource.

Landscape

Fishnish does not lie within an area designated for its high landscape quality. We note the landscape assessment submissions and confirm we are satisfied that the application will have no significant adverse landscape impacts.

Conclusion

We will provide further advice to Argyll and Bute Council once the requested information has been submitted by the applicant. Until this time our position is one of objection. Where the planning authority intends to grant planning permission against this advice without the requested information, you must notify Scottish Ministers

If you require any further advice from regarding on the above please do not hesitate to contact Colin MacFarlane on 0131 3162688 (Colin.MacFarlane@nature.scot).

Yours sincerely

Andrew Campbell
Operations Manager
Andrew.Campbell@nature.scot

Sharon Phipps

From: [REDACTED] scottishseafarms.com>
Sent: 25 January 2019 17:19
To: Davies, Sandra; planning.olandi@argyll-bute.gov.uk
Cc: Colin MacFarlane; Andrew Campbell
Subject: Fishnish A planning application (18/02024/MFF) - Submission of revised information on ADD use
Attachments: Appendix E - Revised Sound of Mull ADD Deployment Plan - Jan 2019 v7.pdf; Supporting Information Document - Fishnish A (Revised).pdf

Dear Sandra

Please find attached a revised ADD Deployment Plan for the Sound of Mull and updated Supporting Information Document (Section on Inner Hebrides and Minches SAC) which have been amended in response to the SNH holding objection to this application, and following further discussion with SNH on the use of ADDs.

Please let me know if you require any further information.

Kind regards

[REDACTED]

[REDACTED] **Scottish Sea Farms Limited**
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[Scottish Sea Farms](#)

Supporting Information Document – Fishnish A application

1. Development proposal

Scottish Sea Farms propose to change cage equipment at the existing Fishnish A farm in the Sound of Mull. The proposed modification is seeking to replace existing steel square cages with modern circular cages while maintaining the same level of production. With the proposed change in cages SSF propose to invest in new stronger cage nets which will reduce the potential for seal predation and the risk of escapes.

It is proposed to replace 12 no. x 24m x 24m square cages with 10 no. x 100 m circumference cages in a 65 m grid and to retain the existing feed barge, as detailed in Table 1. Only nine of the cages would be stocked at any one time, with the tenth kept free to enable rotational stock movement which will permit use of non-medicinal treatments for sea lice (e.g. Thermolicer).

Table 1: Existing and proposed site equipment and area

	Existing	Proposed
Cages	12 x 24m x 24m sq	10 x 100m circles in a 65m grid
Wrasse cage	1 x 40m circle	None
Barge	7 x 14.9m Height above water – 4m when fully laden	No change
Total surface area	8084m ²	8062m ²
Moorings area	143092m ²	214700m ²

Equipment attestations have been provided which confirms that the proposed specification of equipment (**Appendices M-O**) has been carefully identified by suitably qualified personnel and are appropriate for the site-specific conditions expected at the proposed site in the Sound of Mull, Argyll.

2. Site servicing and operation

The site will be serviced from the existing shore base located at Fishnish (NM 65632 422980). Operational activities typically occur between the hours of 08:00 and 17:00 but may occasionally be carried out outside these hours. All harvesting and stocking will be carried out by wellboat. There will be no noticeable change in servicing and operational activities from the current situation.

Cage net specification

Top nets are made of 3mm knotless nylon, have a mesh size ranging from 25 to 50mm, and a height of 2.5 metres above the water level. Cage nets are made of knotted polyethylene with a mesh size of 20mm and a cage net depth of 15 metres. Full net specification is provided in **Attachments H and I**.

Disposal and removal of mortalities

Cage nets will be checked daily by underwater camera for mortalities and removed by diver a minimum of weekly, but more often if required depending on mortality level as per Section 6.4 in **Appendix J** (Veterinary Health and Welfare Plan).

All mortalities are collected at the site and secured in specific mort tubs with lids. These are then transferred by boat to the shorebase where the incinerator is located. Ash resulting from the incineration is legally disposed of in general waste.

Only under special circumstances or when the disposal method explained above is not functioning correctly mortalities will be placed in sealed skips that will then be moved to licenced landfill or anaerobic digester plant by a local transport company.

3. SEPA CAR licence

The existing site is consented under CAR licence (CAR/L/1003943). The proposed changes in cage size and layout will require a technical variation to this licence which was submitted to SEPA on 29th August 2018. No increase to the existing biomass (975 tonnes) has been requested. **Appendix B** identifies the appropriate biomass and Infeed treatment chemical limits for the new cage configuration.

4. Production information

Maximum stocked biomass will remain the same as the existing SEPA consent at 975 tonnes, as will the maximum production biomass per cycle at 1,423 tonnes. The maximum stocking density will decrease from the current 9.4kg/m³ to 8.2kg/m³.

The fallow period will be a minimum of two months, with a minimum 4 weeks synchronous fallowing across all farms in the M35 Farm Management Area.

5. Benthic impact

The proposed modification of the Fishnish A farm does not involve an increase in maximum biomass but will result in production being spread over a larger cage area. The effects on seabed habitats and species from the deposition of waste feed, faeces and medicinal residues is considered by SEPA under the CAR regime.

AUTODEPOMOD Modelling has been carried out in order to identify appropriate biomass and infeed treatment chemical limits for this new cage configuration (**Appendix B**). Due to high current velocities and in particular the high bed velocities, 100% of released material is predicted to be exported from the model grid, and therefore no depositional footprint has been identified. Despite the residual currents being to the ESE it is highly likely given the high bed current velocities that exported material will be transported from Fishnish Bay where it will be dispersed by the stronger currents within the Sound of Mull.

Overall, the Modelling Summary Report (**Appendix B**) identifies that the proposed reconfiguration of cages at Fishnish A will adhere to the required SEPA environmental standards, with no change to the amount of licensed medicinal treatments and no significant change in predicted benthic impact due to no net increase in biomass.

A video transect survey was undertaken in June 2018 and focussed on agreed transects with SEPA and SNH to cover the extended areas of the proposed cage group and predicted depositional footprint. Substrate along the whole of Transects 1 and 2 consisted of muddy sand, with water depths varying from 40.4-50.3m. Transect 3 covered a greater bathymetric range, 23.7-51.6m, with sediments grading from fine sand/shell at shallower depths to muddy sand at depths greater than 30m. Muddy sediments throughout the deeper parts of the survey area (greater than 40m) were burrowed by *Nephrops norvegicus* and *Calocaris macandreae* (not observed but inferred from burrow characteristics). This latter habitat is considered to represent the Priority Marine Feature 'Burrowed mud', however seapens and other key component species were not present - *Maxmuelleria lankesteri*, *Funiculina quadrangularis* and *Pachycerianthus multiplicatus*). A full description of the seabed habitat and species recorded is reported in **Appendix C**.

According to FEAST, the Priority Marine Feature 'burrowed mud' is considered to be of medium sensitivity to organic enrichment; medium sensitivity to levels of siltation in the range 5-30cm; low sensitivity to levels of

siltation <5cm; and sensitive to chemicals. The tall sea pen *Funiculina* is considered to be less tolerant than other burrowed mud component species but was not recorded during the visual seabed survey.

Conclusion

There will be some change in dispersion of effluent from the cages as a result of the greater cage volume, increased spacing between cages and decreased stocking density. It is anticipated that this change will be beneficial, resulting in increased dispersion and hence reduced intensity of benthic impact in the immediate vicinity of the site. The Priority Marine Feature 'Burrowed Mud' is present in deeper parts of the surrounding seabed but does not represent some of the rarer or more sensitive 'Burrowed mud' biotopes. The overall extent of burrowed mud habitat that might be affected is small in comparison to its wide distribution within both inshore and offshore waters. Consequently, it is considered unlikely that the proposed development would have a significant impact on the national status of this Priority Marine Feature.

6. Water column impact

There will be no net increase in biomass at Fishnish A or increase in licenced use of medicinal treatments, as outlined in **Appendix B**. It is therefore concluded that there is no risk of additional impacts on the water column from nutrient enhancement or medicinal treatments from the proposed site reconfiguration.

7. Wild Migratory Salmonids

The equipment changes proposed at Fishnish A do not involve an increase in biomass and therefore there is considered to be no increased risk to wild migratory salmonids.

Containment

The proposal is to upgrade farm equipment from square steel cages to stronger plastic circular cages. The existing site uses nylon cage nets and it is proposed to upgrade these nets with significantly stronger polyethylene nets with increased net tensioning using sinker tubes. These equipment changes will reduce the risk of escapes and in terms of daily operations, the same management practices will apply to the amended site as apply to the current site, as detailed in the **Appendix F** and **Appendix G**.

Site specific attestations have been provided from equipment manufacturers that confirm equipment is suitable for the conditions expected at the site and will meet the design requirements specified by The Technical Standard for Scottish Finfish Aquaculture (**Appendices M-O**).

Sea lice management

There will be no increase in biomass at Fishnish A or change in the availability of medicinal treatments licenced by SEPA. **Appendix B (Modelling Summary Report)** and **Appendix H (Sea Lice Efficacy Statement)** demonstrate that the farm will continue to have access to quantities of in-feed and bath treatments that will allow efficacious treatment of sea lice at all stages of the production cycle. Fishnish A is an existing site where no increase to Slice has been applied for therefore, as per the Framework for the application of SEPA's interim position on the use of emamectin benzoate in finfish farms (Version 2 18 October 2017), the Interim Position Statement does not apply in this case.

The existing Fishnish A farm has a good record of lice control in line with other farms in the Farm Management Area M35. This is reflected in the Marine Scotland screening response to this proposal. The sea lice management strategies that apply to the existing Fishnish A site will not change following a change in cage equipment. The following documents set out the preventative and reactive measures that will be taken to control and treat sea lice at Fishnish A and Farm Management Area M35:

- **Sound of Mull Sea Lice Strategy (Appendix I)**

- **Fishnish A Veterinary Health & Welfare Plan (Appendix J)**
- **SSF Sound of Mull Farm Management Statement (Appendix K)**

Overall the proposal to reconfigure this site is considered unlikely to be detrimental to the effective control and treatment of sea lice in the FMA.

8. Predator interactions

The proposed equipment changes to the existing Fishnish A site are not considered likely to increase the risk to predatory wildlife from disturbance or entanglement. Cage top nets will be supported by the 'hamster wheel' structure and net mesh will be 50mm as on existing top nets. Cage nets will be upgraded to stronger polyethylene with increased net tensioning which will reduce the potential for entanglement of diving birds and seals and seal predation.

9. Landscape

The landscape implications of the Fishnish A proposal are considered in **Appendix A (Fishnish A and B Landscape and Visual Appraisal)**.

10. Other marine activities and socio-economic considerations

The main activity which is known to occur in the vicinity of the existing Fishnish A farm is prawn creel fishing. Fisheries information in the Sound of Mull Marine Plan and observations from farm staff suggested that the south eastern end of Fishnish bay was good prawn ground exploited by local creel fishermen. As such, the proposed expansion of this Fishnish A farm was focussed as far as possible to the North West and North East of the farm away from the bay to try and limit any overlap with fishing activity, while maintaining access to the existing anchorage.

The West Coast Regional Inshore Fisheries Group (WCRIFG) were consulted in March 2018 and some initial concerns were raised that the proposed expansion could encroach further into the bay and thus impact on prawn fishing grounds. As a result, members who responded did not wish to see any further development into the bay because of the loss of fishing grounds with one member suggesting that it would be better if the expansion took place in the north of the site.

A chart showing the existing and proposed extent of the farms moorings area was forwarded to the WCRIFG to confirm the change in farm footprint. This chart presented as Figure 1 below, shows that the proposed moorings would not extend any further into the bay in a South Westerly or South Easterly direction, but would extend beyond the existing moorings to the North West (130 metres) and North East (65 metres). The most easterly corner of the proposed moorings area will extend slightly closer towards Fishnish Point in an easterly direction by around 50 metres.

The WCRIFG reconsulted its members and confirmed that based on chart provided, concerns of the RIFG members who raised them had been cleared up and that they were now satisfied with the proposals. SSF therefore consider that the proposed reconfiguration of the Fishnish A farm is unlikely to significantly affect local fishing interests.

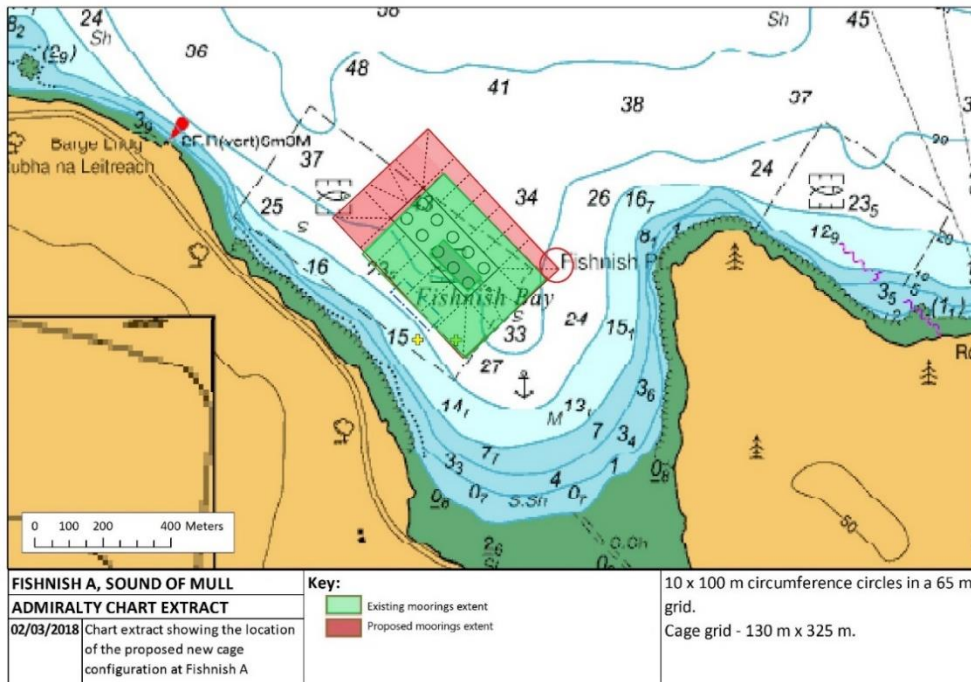


Figure 1 – Mooring extent of existing and proposed Fishnish A farm

The farm will be marked as advised by the Northern Lighthouse Board. The extension of the farm cage group and moorings is in a north westerly direction which does not conflict with the existing anchorage in Fishnish Bay and results in a minimal movement towards the central channel of the Sound of Mull of just 65 metres. The proposed changes are therefore considered unlikely to significantly affect safe navigation and recreational boating interests.

The proposed site configuration will ensure long term job security within the local community, maintaining the current levels of employment across the existing farm at Fishnish A.

11. Protected sites, habitats and species

Mingarry Burn Special Area of Conservation (SAC)

At the EIA screening stage SNH identified that the freshwater pearl mussel interest of the Mingarry Burn SAC should be considered as part of the determination of this development proposal given that it is within a 35km radius of the SAC. The seaward entrance of this SAC is approximately 31km (by sea) from the Fishnish A farm. Migratory salmonids such as salmon and sea trout play a vital part in the life cycle of fresh water pearl mussels and Mingarry Burn SAC is reliant on both juvenile salmon and trout (sea trout).

To inform the Habitats Regulations Appraisal (HRA) process that will need to be undertaken by Argyll and Bute Council the following concerns identified by SNH, which are relevant to potential interactions between fish farming and fresh water pearl mussels, are considered further:

- Impact from farm escapes
- Impact on increased lice burdens upon wild salmonid populations

The planning proposal being considered is for a change in cage equipment at the existing Fishnish A farm, with no change in maximum biomass, and therefore level of production. ***What is relevant to this assessment is therefore the changes to the farm and their likely consequences, rather than consideration of the entire farm and its current interaction with wild salmonids which has already been assessed under its existing planning permission.***

Impact from farm escapes

The proposal is to upgrade farm equipment from square steel cages to stronger plastic circular cages. The existing site uses nylon cage nets and it is proposed to upgrade these nets with significantly stronger polyethylene nets with increased net tensioning using sinker tubes. These equipment changes will reduce the risk of escapes from net damage, seal predation and storm events. In terms of daily operations, the same management practices will apply to the amended site as apply to the current site, as detailed in **Appendix F (Containment Plan)** and **Appendix G (Escapes Prevention Plan)**.

It is concluded that there is no increased risk to wild salmonids from farm escapes as a result of proposed changes at Fishnish A.

Impact on increased lice burdens upon wild salmonid populations

The existing Fishnish A farm has a good record of lice control in line with other farms in the Farm Management Area M35. This is reflected in the Marine Scotland screening response to this proposal. The sea lice management strategies that apply to the existing Fishnish A site will not change following a change in cage equipment. These are outlined in the following documents which are reviewed during the fallow period between production cycles and updated/amended as required:

- **SSF Sound of Mull Sea Lice Strategy (Appendix I)**
- **Fishnish A Veterinary Health & Welfare Plan (Appendix J)**
- **SSF Sound of Mull Farm Management Statement (Appendix K)**

There will be no increase in biomass at Fishnish A or change in the availability of medicinal treatments licenced by SEPA. The **Modelling Summary Report (Appendix B)** and **Sea Lice Efficacy Statement (Appendix H)** demonstrate that the farm will continue to have access to quantities of in-feed and bath treatments that will allow efficacious treatment of sea lice at all stages of the production cycle. Fishnish A is an existing site where no increase to Slice has been applied for therefore, as per the Framework for the application of SEPA's interim position on the use of emamectin benzoate in finfish farms (Version 2 18 October 2017), the Interim Position Statement does not apply in this case.

It is concluded that there is no increased risk to wild salmonids from farm derived sea lice as a result of proposed changes at Fishnish A.

Habitats Regulations Appraisal (HRA)

The approach to HRA follows a three-stage process as detailed in SNH guidance (SNH, 2010). Our conclusions on this appraisal are set out below.

- **Stage 1:** *Is the proposal directly connected with or necessary to the conservation management of a Natura site?*
- **Stage 2:** *Is the proposal likely to have a significant effect (LSE) on the qualifying features of a Natura site either alone or in-combination with other plans or projects?*
- **Stage 3:** *Can it be ascertained that the proposal will not adversely affect the integrity of a Natura site?*

Stage 1 - The proposal is not directly connected with or necessary to site management for the conservation of the SACs and therefore consideration of Stage 2 is required.

Stage 2 - While there is potential connectivity between the location of the farm and wild salmonids which are a key part of the SAC features lifecycle, there is no increased risk to wild salmonids as a result of the changes proposed. It is therefore concluded that the proposal is not likely to have a significant effect on the qualifying features of Mingarry Burn SAC, either alone or in-combination with other plans and projects. Consideration of Stage 3 is therefore not required.

Loch Sunart to Sound of Jura Nature Conservation Marine Protected Area

The Fishnish A farm lies within the Loch Sunart to the Sound of Jura Nature Conservation Marine Protected Area, selected for its common skate and Quaternary of Scotland glaciated channels and troughs. At the EIA screening stage SNH advised that the proposals potential direct and indirect impacts upon the Common Skate interests of the MPA should be assessed.

The SNH Management Options paper for this MPA states that juvenile and adult skate are unlikely to be affected by finfish farming but that skate eggs are considered to have a medium sensitivity to fish farm pressures such as siltation and surface abrasion from moorings. SNH have previously advised (in response to other fish farm applications) that proposals could theoretically result in reduced availability of prey species, particularly crustaceans in a relatively localised area of a farm.

The following potential direct and indirect effects have been considered:

- Direct impact on potential skate eggs
- Indirect impact on availability of prey species

Skate eggs

Although little is known about the breeding habits of common skate it is believed that their eggs are laid on shallow rocky reefs. Both the cage group and moorings extent of the proposed reconfiguration of the existing Fishnish A farm is located over substrates ranging from fine sand/shell to muddy sand, and do not overlap with shallow rocky reef habitat. Deposition from the farm is likely to result in a low level of enrichment directly below the cage group, where rocky reef habitat has not been identified. Wider export of material as predicted by the modelling report is likely to result in low levels of seabed deposition which are unlikely to degrade potential egg laying habitat. Given the low potential for interaction with potential egg laying habitat and the likely wider extent of such habitat within the MPA, effects from deposition and mooring abrasion is considered unlikely to be significant.

Availability of prey species

The **Modelling Summary Report (Appendix B)** identifies that the proposed reconfiguration of cages at Fishnish A will adhere to the required SEPA environmental standards, with no change to the amount of licensed medicinal treatments and no significant change in predicted benthic impact, due to no net increase in biomass. Localised enrichment is likely to be restricted to directly below the cages given the dispersive nature of the farm location and predicted export of material away from the farm. Wider export of material as predicted by the modelling report is likely to result in low levels of seabed deposition which are unlikely to significantly affect prey species.

Overall, we do not consider that the proposal to configure the Fishnish A farm is capable of affecting, other than insignificantly, the common skate protected feature of the Loch Sunart to the Sound of Jura MPA.

Inner Hebrides and Minches Special Area of Conservation (SAC)

SNH advice

The Fishnish A and B farms are located within the Sound of Mull which is part of the Inner Hebrides and the Minches candidate SAC, selected for its harbour porpoise interest. SNH advice at the EIA screening stage identified that harbour porpoise is frequently recorded in the Sound of Mull and that based on experience with other similar fish farm proposals the development could have a 'likely significant effect' upon the common porpoise interest of the SAC, and therefore it is likely that this development will be subject to an 'Appropriate Assessment'.

SNH advise that the sensitivity of harbour porpoise to the development is in relation to any proposed use of Acoustic Deterrent Devices (ADDs) which may have the potential to disturb this species and other cetaceans. Any mitigation proposed should consider the implications of the proposal in terms of the individual site and cumulatively in respect of all sites in the Sound of Mull.

Seal predation and existing use of ADDs

High densities of fish at fish farms can attract predatory species including seals. If not managed, seals can cause damage to stocks and equipment, potentially leading to stock escapes, and sufficiently stress farmed stock to affect production. In addition to seeking to limit the loss of stock from both an economic and environmental perspective, Scottish Sea Farms have a legal duty of care to protect the health and welfare of farmed stock. Implementation of anti-predator measures are therefore essential to protect farmed stocks.

The Predator Exclusion Plans (**Appendix D**) for all Sound of Mull sites set out a sequential approach to anti-predator measures which takes a balanced approach to protection of farmed stocks and minimising effects on non-target wildlife. While high quality tensioned cage nets are the first line of defence against seal predation, ADD use is an important secondary deterrent for seals, in the event that tensioned netting does not deter seal predation.

All five farms in the Sound of Mull have experienced seal predation at different times and Table 2 highlights the numbers of fish mortalities attributed to seal predation for sites in 2018, for all farms other than Bloody Bay. It is important to note that fish can also be stressed and stop feeding as a result of seal predation which is not demonstrated here. Data from 2017 has been provided for Bloody Bay as this site has been fallow so far in 2018.

Table 2: Number of fish mortalities attributed to seal predation

Site	Timescale	Seal related mortality
Bloody Bay	2017	4,252
Fishnish A	2018 (Jan-Aug)	217
Fishnish B	2018 (Jan-Aug)	128
Fiunary	2018 (Jan-Aug)	1,116
Scallastle	2018 (Jan- Aug)	2180

In line with existing planning permissions listed in Table 3 the Sound of Mull farms have used ADDs intermittently at all farms other than Bloody Bay.

Table 3: Planning permissions and ADD use restrictions for Sound of Mull sites

Site	Type of Planning	Restrictions on ADD use
Bloody Bay	2011 Order	None
Fishnish A	Review/Audit	None
Fishnish B	2011 Order	None
Fiunary	Review/Audit	None
Scallastle	Review/Audit	Use of ADDs should be restricted to times when there is visual presence or evidence of seal attacks only

The Bloody Bay farm experienced seal predation in early 2017 and up until this point seals had not been an issue and therefore ADDs had not needed to be used. As a result of significant damage to stocks in 2017 SSF would like to install ADDs at this farm for the next production cycle (commencing November 2018) which would be there as a back-up secondary measure should tensioned netting not deter seal predation.

Proposed use of ADDs and mitigation

It is proposed to have ADDs installed at all five SSF sites in the Sound of Mull and operated strictly in accordance with the **Sound of Mull ADD Deployment Plan (Appendix E)**. This plan sets out a sequential approach which ensures that ADDs are only used where tensioned netting is not fully effective against seal predation and where seal related fish mortality is demonstrated. Stages are included which define when ADDs can be activated and when they should be deactivated to prevent use over prolonged periods of time.

Improved cage nets

With the investment in new cage infrastructure proposed for Fishnish A and B new cage nets will also be installed. These will replace the existing standard nylon cage nets with significantly stronger polyethylene nets and increased cage net tensioning using sinker tube technology. These new nets have been trialled at other SSF sites and have in most cases significantly reduced the level of seal predation and number of seal-related fish mortalities. It is anticipated that damage to fish from seals will be reduced at Fishnish A and B and therefore overall the likelihood of needing to switch ADDs on will be reduced.

Cage nets for all other Sound of Mull farms will be replaced with the stronger polyethylene nets at the start of the next production cycle for each farm, as identified in Table 4.

Table 4: Proposed timing of net replacement for Sound of Mull sites

Site	Proposed year of net replacement
Bloody Bay	2018
Fishnish A	2019
Fishnish B	2019
Fiunary	2021
Scallastle	2021

Cumulative use of ADDs

SNH expressed concern over the potential of ADD use simultaneously across all fish farms in the Sound of Mull to cause significant disturbance and displacement to harbour porpoise within this area of the SAC. During the next production cycle (2019-2021) the Fiunary and Scallastle farms will still have nylon cage nets and therefore will be at an increased risk of seal predation compared to the other sites which will have stronger polyethylene nets and improved net tensioning. These are therefore the sites that would be most likely to require simultaneous ADD use.

To minimise the potential for cumulative impacts on cetaceans a pragmatic proposal which restricts the simultaneous use of ADDs to either: one of the five Sound of Mull farms; or the Fiunary and Scallastle farms to use ADDs at the same time, has been included in the revised ADD Deployment Plan.

It is recognised that there is significant uncertainty over the likely disturbance range of ADDs for cetaceans, which could be higher or lower depending on many factors such as ambient noise, bathymetry, hearing threshold and behavioural response of individual animals. Avoidance responses to ADDs have been well studied for harbour porpoise and available studies reviewed by Coram *et al.* (2014) identified some variability in terms of response distances but generally concluded that there was a zone of exclusion within a few hundred metres and a wider zone of disturbance up to several kilometres within which numbers of individuals decreased. Studies cited in the Coram paper that assessed Airmar ADDs identified disturbance effects ranging from 991m to 3.5km.

Cumulative disturbance will be a function of noise level and the duration animals are exposed to noise if transiting through the sound. The maximum simultaneous use of ADDs allowed by the proposed ADD Deployment Plan within the Sound of Mull would be Fiunary and Scallastle farms, which are 16.5km apart

(measured from site centres). Using 3.5km as a rough guide to potential disturbance effects the simultaneous use of ADDs at these two sites would not cause disturbance over an overlapping and extended length of the Sound of Mull. The use of ADDs would also be temporary with a maximum duration period of two weeks before the ADD protocol is restarted, further reducing the risk of cumulative disturbance.

ADD use beyond 2021

SSF acknowledge that the Sound of Mull lies within the Inner Hebrides and Minches SAC designated for its harbour porpoise population and that it is considered a sensitive location in terms of potential indirect and unintentional disturbance of porpoise and other cetaceans from underwater sound generated by ADDs. Once all farms have upgraded to polyethylene nets with improved net tensioning and we can demonstrate that these improvements can limit seal predation to an acceptable level, it is our intention to completely phase out the use of ADDs in the Sound of Mull.

Monitoring and review

SSF continuously monitor, review and adapt farming practices to improve farm management. The ADD Deployment Plan also commits to daily recording of signs of seal predation, seal related fish mortalities and use of ADDs which will be available to Argyll and Bute Council and SNH on request. This information will inform a review of the ADD Deployment Plan at the end of each production cycle with any future changes being agreed in consultation with SNH and Argyll and Bute Council.

Conclusion

The Sound of Mull and the Fishnish area in particular, have supported significant records of harbour porpoise activity in recent years, despite existing ADD use in this area. SSF do however accept that the Sound of Mull is a sensitive location in terms of potential indirect and unintentional disturbance of porpoise and other cetaceans. We have therefore identified significant changes in ADD use at all Sound of Mull sites which will reduce the risk of significant disturbance. These include:

- Investment in stronger cage nets and associated net tensioning which should reduce the need to use ADDs;
- Replacing continuous ADD use at sites with limited ADD use where tensioned netting has not been fully effective against seal predation and seal related fish mortality is demonstrated;
- Limiting the amount of time ADDs can remain on;
- Limiting simultaneous use of ADDs to a maximum of two sites;
- Intention to remove ADDs from all farms in 2021 once cage nets are fully upgraded.

The measures proposed will significantly reduce the level of ADD use within the Sound of Mull compared to existing use and will reduce the risk of significant cumulative impacts on harbour porpoise and other cetacean species in the Sound of Mull. We therefore consider that these measures provide appropriate mitigation that will avoid an adverse effect on site integrity of the Inner Hebrides and Minches SAC.

References

1. [Coram, A., Gordon, J., Thompson, D. and Northridge, S \(2014\). Evaluating and assessing the relative effectiveness of non-lethal measures, including Acoustic Deterrent Devices, on marine mammals. Scottish Government.](#)



Scottish Natural Heritage Dualchas Nàdair na h-Alba

All of nature for all of Scotland
Nàdar air fad airson Alba air fad

By email to: planning.oland@argyll-bute.gov.uk

Planning Services
Argyll & Bute Council
Municipal Buildings
Albany Street
Oban
PA34 4AW

Date: 22nd November 2018

Your ref: 18/02166/MFF

Our ref: CDM152993

Dear Sir/ Madam,

TOWN AND COUNTRY PLANNING (SCOTLAND) ACT 1997

PROPOSAL: Replacement of existing steel square cages with 7 x 100m circumference cages and replacement of feed barge (with no increase in biomass)

SITE ADDRESS: Fishnish B, Fish Farm Fishnish Craignure Isle of Mull Argyll and Bute

Thank you for your consultation dated 31st October 2018 regarding the above planning application. Please find below our advice on the application.

Summary

In combination with other sites, this proposal will have a likely significant effect upon Inner Hebrides and Minches Special Area of Conservation (SAC). The applicant is requested to resubmit an ADD Activation Plan for the Sound of Mull that contains a protocol for all fish farms under the applicants control / ownership within the Sound of Mull. The plan will be informed by scientific appraisal to ascertain the acceptable number of devices that can be activated at the same time across the Sound of Mull. At this time we cannot determine that this proposal, in combination with other existing fish farms, will not have an adverse impact upon site integrity and therefore we object until the above information is provided.

Appraisal

Inner Hebrides and Minches Special Area of Conservation

Fishnish is located within the Sound of Mull, which falls within the boundaries of the Inner Hebrides and Minches Special Area of Conservation (SAC), designated for its

harbour porpoise population. The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") apply. Consequently, Argyll and Bute Council is required to consider the effect of the proposal on the SAC before it can be consented (commonly known as Habitats Regulations Appraisal). The SNH website has a summary of the legislative requirements.

As part of the predator protection strategy for the farm the applicant has submitted an Acoustic Deterrent Device (ADD) Deployment Plan for the Sound of Mull. Much of the content within this plan is welcomed and we note the positive proposals taken to reduce lethal control and minimise impacts upon non-target species. It is evident from this plan that the applicant will have 46 ADDs distributed across the Sound of Mull at 6 locations, with 7 being located at Fishnish B.

The activation of ADDs at the same time across various fish farms within the Sound of Mull does concern us. Simultaneous ADD usage at some or all fish farms has the potential to cause significant disturbance and displacement to harbour porpoise within this area of the SAC. Additionally, there is also the possibility that such levels of ADD use could cause auditory damage to harbour porpoise. We advise that in combination within other existing sites, this proposal will have a likely significant effect upon the SAC and we could not rule out adverse impact upon site integrity at this time. Argyll and Bute Council will be required to undertake a Habitats Regulation Appraisal for this proposal.

The impacts detailed above are worst case, an indirect consequence of predator prevention measures and not intended by the applicant. We believe the likelihood of these impacts occurring can be reduced to an acceptable level by applying an activation protocol for use within the Sound of Mull. We would not support simultaneous activation of ADDs across all farms. The applicant should therefore:

- Provide a Sound of Mull ADD Activation Plan that contains a protocol for all fish farms under the applicants control/ ownership within the Sound of Mull. The plan will be informed by scientific appraisal to ascertain the acceptable number of devices that can be activated at the same time.

We would welcome discussion and review of the applicant's proposal before formal submission.

Mingarry Burn Special Area of Conservation

The Mingarry Burn SAC, which is designated for its freshwater pearl mussel interest is located approximately 19 miles from Fishnish. At this distance we feel there is potential for the proposal to have a likely significant effect upon the Mingarry Burn SAC, which is designated for its Freshwater Pearl Mussel (FWPM) population. The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") apply. Consequently, Argyll and Bute Council is required to consider the effect of the proposal on the SAC before it can be consented (commonly known as Habitats Regulations Appraisal). You may wish to use the following advice as part of this appraisal.

The applicant is seeking permission to change the farm infrastructure (replacement of square cages to 7 round cages and new feed barge) and amend the site footprint slightly from that of the existing fish farm. The applicant is not seeking an increase in the existing biomass and no significant changes in husbandry practices are proposed. We advise that the application is at the periphery of where a measurable effect upon individual sea trout or salmon within the burn could be detected, whilst any impact at the population level within the SAC would be associated with sites much closer.

As with the existing site the applicant will implement best practice in its husbandry, including lice treatment and escapee recapture procedures. The fish farm at Fishnish has been operational since the late 1980's, predating the designation, and has been part of the baseline aquaculture during this time. The condition of the Mingarry Burn SAC has altered from 'unfavourable declining' to 'unfavourable recovering' during this period, within positive management enhancing the riparian and stream bed habitats the main driver for this change. Surveys confirm that fish populations are not believed to be a limiting factor within the Mingarry Burn SAC and this site is one of few where sea trout and salmon play host to FWPM larvae. In conclusion, we advise that although the proposal could have a likely significant effect upon the Mingarry Burn SAC it will not have an adverse impact upon site integrity.

Loch Sunart to Sound of Jura Nature Conservation Marine Protected Area

We have reviewed the applicant's submissions and are satisfied that the application will have no significant adverse impacts upon the Loch Sunart to the Sound of Jura Marine Protected Area.

Priority Marine Features

We note that burrowed mud, which is a Priority Marine Feature, and associated component species were recorded within the application footprint. This habitat is extensive within this region and we are satisfied that the application will have no significant adverse impacts upon this Priority Marine Feature resource.

Landscape

Fishnish does not lie within an area designated for its high landscape quality. We note the landscape assessment submissions and confirm we are satisfied that the application will have no significant adverse landscape impacts.

Conclusion

We will provide further advice to Argyll and Bute Council once the requested information has been submitted by the applicant. Until this time our position is one of objection. Where the planning authority intends to grant planning permission against this advice without the requested information, you must notify Scottish Ministers

If you require any further advice from regarding on the above please do not hesitate to contact Colin MacFarlane on 0131 3162688 (Colin.MacFarlane@nature.scot).

Yours sincerely

Andrew Campbell
Operations Manager
Andrew.Campbell@nature.scot

Appendix E – Sound of Mull ADD Deployment Plan

Version 0.7

Revised January 2019

ADD Deployment Plan for SSF Sound of Mull Farms.

Introduction

Fish farms can attract predatory species including seals and if not managed, seals can cause damage to stocks and equipment, potentially leading to stock escapes, and sufficiently stress farmed stock to affect production. In addition to seeking to limit the loss of stock from both an economic and environmental perspective, Scottish Sea Farms have a fundamental ethical and legal duty of care under the Animal Health and Welfare (Scotland) Act 2006 to protect the health and welfare of farmed stock. Implementation of anti-predator measures are therefore essential to protect farmed stocks.

The Predator Exclusion Plans for all Sound of Mull sites set out a sequential approach to anti-predator measures which take a balanced approach to protection of farmed stocks and minimising effects on non-target wildlife.

SSF acknowledge that the Sound of Mull lies within the Inner Hebrides and Minches SAC designated for its harbour porpoise population and that it is considered a sensitive location in terms of potential indirect and unintentional disturbance of porpoise and other cetaceans from underwater sound generated by ADDs. Once all farms have upgraded to polyethylene nets with improved net tensioning and we can demonstrate that these improvements can limit seal predation to an acceptable level, it is our intention to completely phase out the use of ADDs in the Sound of Mull.

Scope of Deployment Plan

1. The marine farms covered in this ADD Deployment plan are **Scallastle, Fishnish A, Fishnish B, Fiunary, & Bloody Bay**.
2. This ADD Deployment Plan will be followed at the above farms from the stocking of the Fishnish A farm (scheduled April 2019).

Protocol for activating/deactivating ADDs

10. Where losses of salmon through seal predation have been zero for two consecutive days the ADD system must be switched to "Off/Standby".
11. Where losses of salmon through seal predation are confirmed during any deadening process then the cascade of actions is ...
 - A. to verify net tensioning (including that all weights of the correct size are in place at every downrope & deadbasket)
 - B. ensure that the sidewall is fully fastened to the top net to prevent any seal accessing the handrail
 - C. step up mortality removal to a minimum of every alternate day (including weekends)
 - D. checking that dead basket seating is correct & the base of the net is holding shape
 - E. ensure ADD functionality (but do not yet make operational)
12. Where losses of salmon through seal predation, (despite following actions 11 A->D) have continued into a 3rd day then the farm should activate ADDs using the 'soft start' feature, following approval from the Farm Support Manager (Step 16).
13. ADDs should be deactivated on-farm when two consecutive days deadening have resulted in zero fresh dead through seal predation, or if losses of salmon through seal predation from an individual seal have continued beyond two weeks.
14. Where losses of Atlantic salmon continue through seal predation despite fully functional net design and the use of ADDs, procedures for seal management should be considered as described in the Predator Exclusion Plan.
15. All farms are covered by a regional Seal Management Licence legally permitting seal destruction as a last resort. Such action is only taken if site staff are confident that an identified individual represents a reasonable threat to net integrity or stock welfare. If an individual seal is culled then ADDs are switched off and the procedure starts again.
16. In exceptional circumstances where multiple seals can be identified as preying on a farm, ADDs may be reactivated with approval of the Farm Support Manager in consultation with SNH, within 24 hours (at Point 13) where losses of salmon through seal predation have continued despite the cull of an individual seal; or if seal related fish mortality increases immediately after deactivation.

Minimising simultaneous use of ADDs at multiple farm sites

17. Where the need to activate ADDs at an individual farm has been identified (Steps 11 & 12) the Site Manager must gain permission from the Farm Support Manager. This is to ensure that the simultaneous use of ADDs at multiple sites is managed in order to reduce potential for cumulative indirect and unintended disturbance to non-target wildlife.

18. From June 2019 onwards, the Farm Support Manager can only approve the activation of ADDs at either:

- a. One single site within the Sound of Mull at any one time; OR
- b. At both Fiunary and Scallastle sites at the same time.

Monitoring ADD use and record keeping

19. Farms above will maintain a record form: "ADD Inspection, Clean/Maintenance Record" in their Marine Folder: 10.

20. Farms above will maintain a daily Log monitoring seal interaction and ADD usage. This record is called "Daily sheet/ADD Record Sheet." It is a farm manager's responsibility that this form is completed daily. Forms are filed in folder 20 section 1.

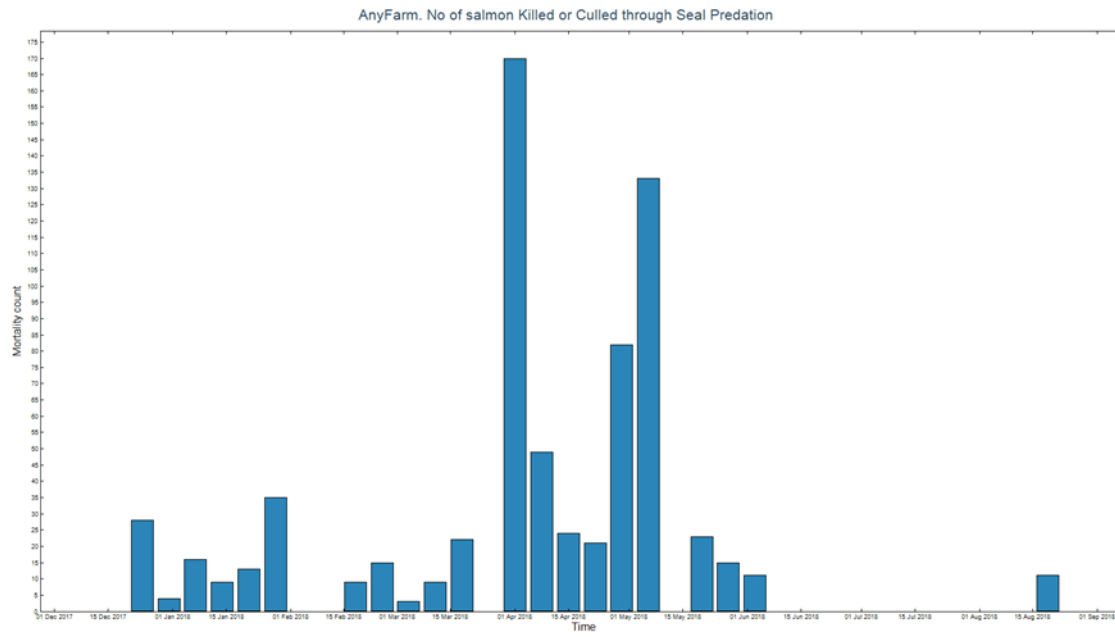
21. The daily farm logs will be made available to Argyll and Bute Council and SNH on request.

Daily Seal /ADD record sheet						issue date:			
	Seals	Seal Activity	Net interaction	Fish behaviour	Fish interaction	ADDs	ADDs	ADD Management	Sign Off
Date	number seen, SPECIES	Behaviour, how near cages	none, abrasion, damage, holes - state what	stress, feeding, swim pattern	seal damaged mortalities (no)	Model in Use	In use continuously, night time only, not at all?	Weekly/Monthly Inspection/ Test/ Maintenance	Farm staff undertaking Inspection/ Test/ Maintenance
2-Nov-18									
3-Nov-18									
4-Nov-18									
5-Nov-18									
6-Nov-18									
7-Nov-18									
8-Nov-18									
9-Nov-18									
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25-Nov-18									

22. The ADD manual will be available to all via SSF SharePoint.

23. Farms will record any salmon losses as a consequence of seal predation as "Seal" in the SSF Fish Talk database. Where salmon are required to be culled as a consequence of seal predation these too are to be recorded under the title of "Seal" and added to the SSF Fish Talk database.

24. Farm managers should be able to demonstrate seal predation losses of salmon through running a Fish Talk graphic (for example as below).



Review and amendment of ADD use

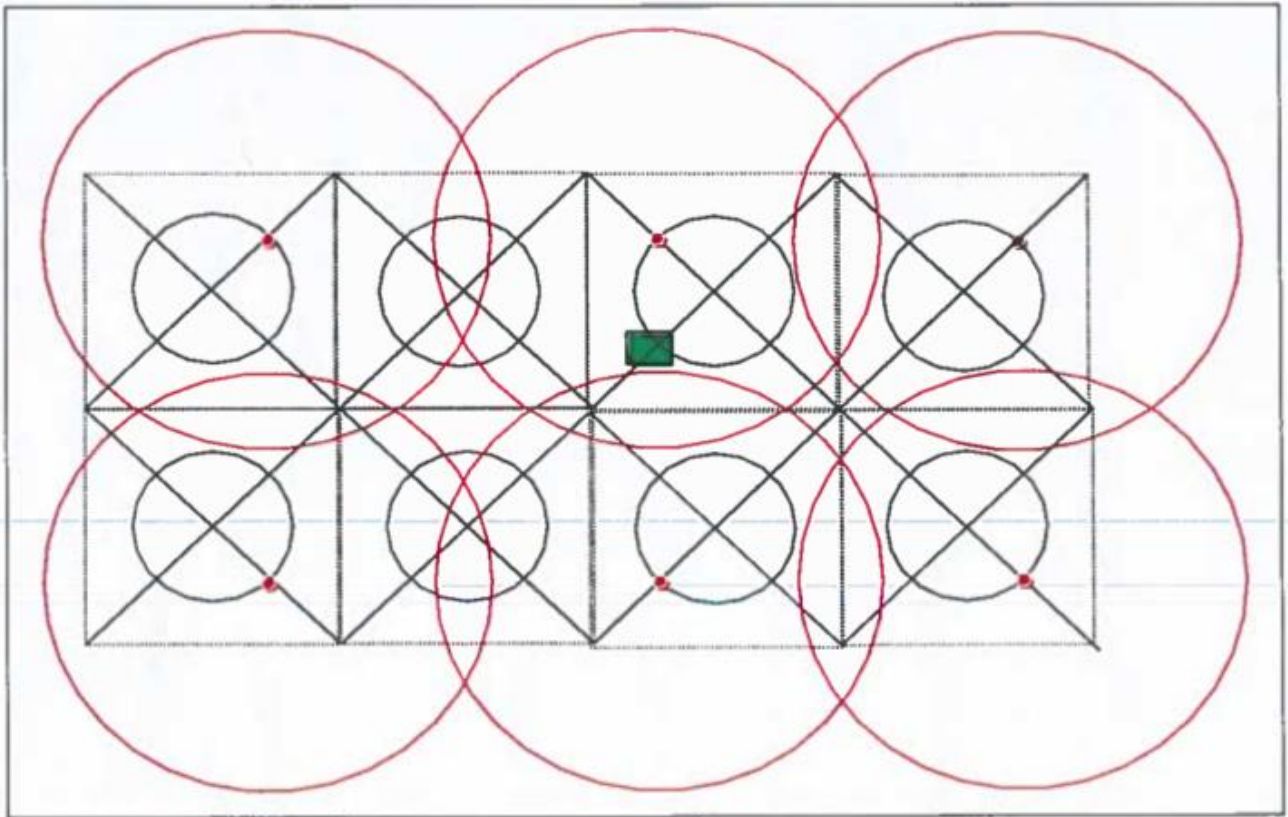
25. SSF commit to review, monitor and adapt predator control measures including the use of ADDs both throughout and at the end of each production cycle.
26. SSF will undertake each end of cycle review in consultation with SNH and any future changes to the ADD Deployment Plan will be agreed in consultation with SNH and Argyll and Bute Council.

25 January 2019

Appendix 1 - Acoustic Deterrent Device Specification

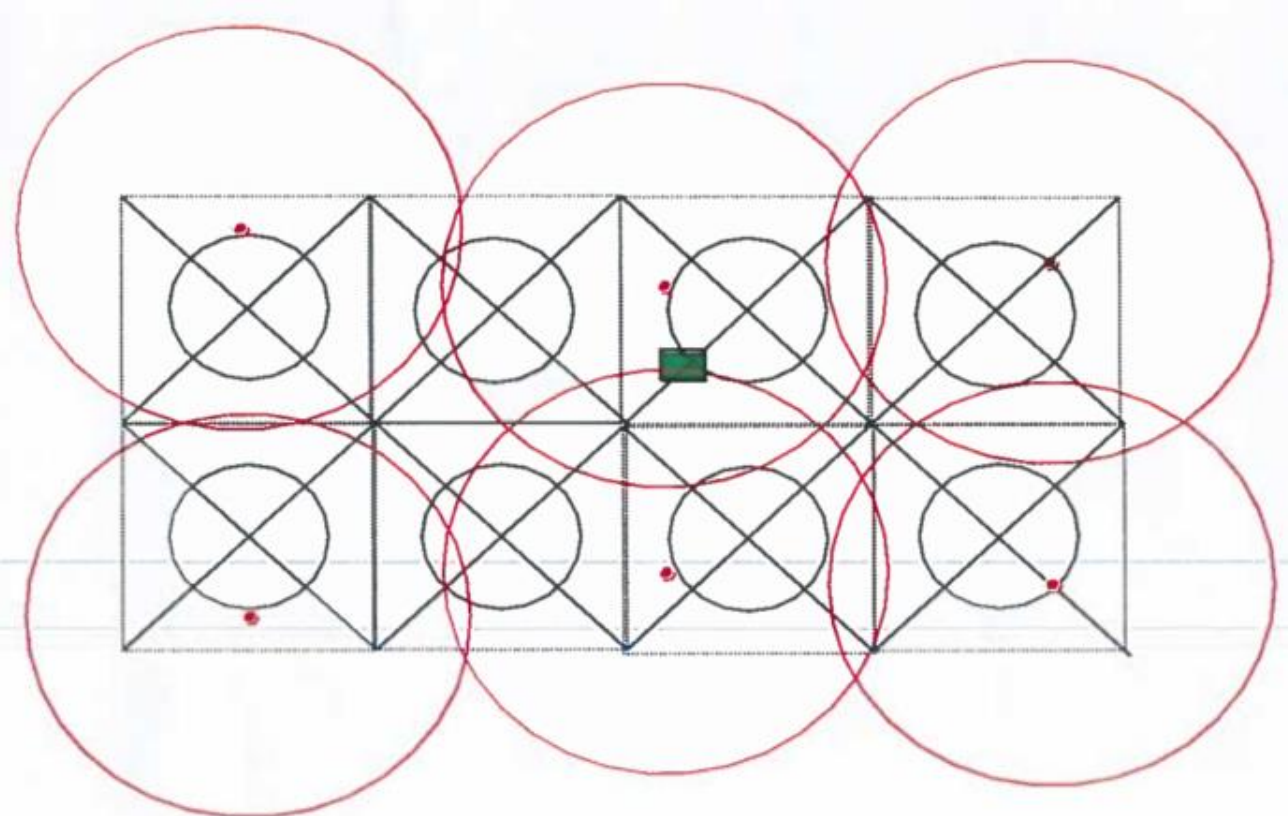
- Sound of Mull sites are fitted with either Airmar DB+II device or the Sea Guard Seal Deterrent device. Both operate at 10kHz with an indicative source level of 197 dB and are considered to be effective up to 40m in all directions.
- The Airmar DB+II can drive a maximum of four projectors and the SeaGuard 6-Channel Seal Deterrent a maximum of six projectors. All controllers (2, 4 & 6) fire one projector at a time.
- The duty cycle of the Airmar DB+II is 2.8 seconds firing pulse, followed by a gap of 3 seconds.
- The SeaGuard 6-Channel Seal Deterrent is programmable with a random projector firing order, with variable firing durations between 0.5 seconds and 2.8 seconds. There is a 0.5 second gap between the end of one firing pulse and the beginning of the next.
- All products have a soft start feature which is intended to warn other marine mammals in the area that the system is starting up.

SCALLASTLE (EAST CAGE GROUP)



6 SeaGuard Seal Deterrent projectors using SeaGuard 6-channel control box

SCALLASTLE (WEST CAGE GROUP)



6 SeaGuard Seal Deterrent projectors using SeaGuard 6-channel control box

Supporting Information Document – Fishnish B application

1. Development proposal

Scottish Sea Farms propose to change cage equipment at the existing Fishnish B farm in the Sound of Mull. The proposed modification is seeking to replace existing steel square cages with modern circular cages while maintaining the same level of production. With the proposed change in cages SSF propose to invest in new stronger cage nets which will reduce the potential for seal predation and the risk of escapes.

It is proposed to replace 10 no. x 24m x 24m square cages with 7 no. x 100 m circumference cages in a 50 m grid and to replace the existing storage barge and shore-based feeding system with an automated feed barge, as detailed in Table 1.

Table 1: Existing and proposed site equipment and area

	Existing	Proposed
Cages	10 x 24m x 24m sq	7 x 100m circles in a 50m grid
Barge	7 x 15m storage barge	6 x 17.2m feed barge
Total surface area	6,351m ²	5,674m ²
Moorings area	82,152m ²	171,100m ²

Equipment attestations have been provided which confirms that the proposed specification of equipment (**Appendices M-O**) has been carefully identified by suitably qualified personnel and are appropriate for the site-specific conditions expected at the proposed site in the Sound of Mull, Argyll.

2. Site servicing and operation

The site will be serviced from the existing shore base located at Fishnish (NM 65632 422980). Operational activities typically occur between the hours of 08:00 and 17:00 but may occasionally be carried out outside these hours. All harvesting and stocking will be carried out by wellboat. There will be no noticeable change in servicing and operational activities from the current situation.

Cage net specification

Top nets are 300mm mesh Dyneema on the top panel and 50/75mm mesh Ply Star polyethylene on the side panels with a height of 4.5 metres above the water level. Cage nets are made of knotted polyethylene with a mesh size of 20mm and a cage net depth of 10 metres. Full net specification is provided in **Attachments G and J**.

Feed barge

The existing farm has a shore-based feeding system and therefore currently no feed barge. It is proposed to install a 170 tonne feed barge at the East end of the cage group (**Attachment H**), replacing an existing storage barge of a similar scale as depicted in **Attachment K**.

Disposal and removal of mortalities

Cage nets will be checked daily by underwater camera for mortalities and removed by dead basket lift a minimum of three times weekly, but more often if required depending on mortality level as per Section 6.4 in **Appendix J** (Veterinary Health and Welfare Plan).

All mortalities are collected at the site and secured in specific mort tubs with lids. These are then transferred by boat to the shorebase where the incinerator is located. Ash resulting from the incineration is legally disposed of in general waste.

Only under special circumstances or when the disposal method explained above is not functioning correctly mortalities will be placed in sealed skips that will then be moved to licenced landfill or anaerobic digester plant by a local licenced transport company.

3. SEPA CAR licence

The existing site is consented under CAR licence (CAR/L/1003494). The proposed changes in cage size and layout will require a technical variation to this licence, an application for which was submitted to SEPA on 29th August 2018. No increase to the existing biomass (975 tonnes) has been requested. **Appendix B** identifies the appropriate biomass and Infeed treatment chemical limits for the new cage configuration.

4. Production information

Maximum stocked biomass will remain the same as the existing SEPA consent at 975 tonnes, as will the maximum production biomass per cycle at 1,218 tonnes. The maximum stocking density will decrease from the current 21.2 kg/m³ to 13.5 kg/m³.

The fallow period will be a minimum of two months, with a minimum 4 weeks synchronous fallowing across all farms in the M35 Farm Management Area.

5. Benthic impact

The proposed modification of the Fishnish B farm does not involve an increase in maximum biomass but will result in production being spread over a larger cage area. The effects on seabed habitats and species from the deposition of waste feed, faeces and medicinal residues is considered by SEPA under the CAR regime.

AUTODEPOMOD Modelling has been carried out in order to identify appropriate biomass and infeed treatment chemical limits for this new cage configuration (**Appendix B**). Due to high current velocities and in particular the high bed velocities, at this site only 4% of the released mass is predicted to be retained within the modelled system. Given the residual current at this site is to the north west, it is likely that the majority of material exported from the model grid will be dispersed within the wider area of the Sound of Mull. The change in cage configuration from square to circular cages results in an AZE footprint of 13572.1m² which is slightly smaller than the predicted AZE footprint of the existing cage configuration (17155m²).

Overall, the Modelling Summary Report (**Appendix B**) identifies that the proposed reconfiguration of cages at Fishnish B will adhere to the required SEPA environmental standards, with no significant change to the amount of licensed medicinal treatments and no significant change in predicted benthic impact due to no net increase in biomass.

A video transect survey (**Appendix C**) was undertaken in June 2018 and focussed on an agreed single transect with SEPA and SNH to cover the extended areas of the proposed cage group and predicted depositional footprint. Substrate along the transect varied from gravelly, muddy sand with scattered boulders at the west end (water depth of 33m) to fine sand and then muddy sand at the east end (28m). No burrows attributable to *Nephrops norvegicus* or other megafaunal burrowing species were present. The west end of the transect, on gravelly sediments was notable for aggregations of the brittlestar *Ophiocomina nigra* together with hydroids *Nemertesia antennina*, *N. ramosa* and *Halecium* sp., and abundant tube anemones *Cerianthus lloydii*. The east end of the transect, on muddy sand had no *Ophiocomina* but moderate densities of buried *Amphiura* with arms exposed for filter-feeding. A full description of the seabed habitat and species recorded is reported in **Appendix C**.

Conclusion

There will be some change in dispersion of effluent from the cages as a result of the greater cage volume, increased spacing between cages and decreased stocking density. It is anticipated that this change will be beneficial, resulting in increased dispersion and hence reduced intensity of benthic impact in the immediate vicinity of the site. No significant effects on Priority Marine Features (PMF) are anticipated given that no PMFs were identified in the immediate vicinity of the site and that the export of material outwith the AZE will be widely dispersed within the Sound of Mull at a low level of deposition.

6. Water column impact

There will be no net increase in biomass at Fishnish B and only minor changes to the licenced use of medicinal treatments, as outlined in **Appendix B**. It is therefore concluded that there is no risk of additional impacts on the water column from nutrient enhancement or medicinal treatments from the proposed site reconfiguration.

7. Wild Migratory Salmonids

The equipment changes proposed at Fishnish B do not involve an increase in biomass and therefore there is considered to be no increased risk to wild migratory salmonids.

Containment

The proposal is to upgrade farm equipment from square steel cages to stronger plastic circular cages. The existing site uses nylon cage nets and it is proposed to upgrade these nets with significantly stronger polyethylene nets with increased net tensioning using sinker tubes. These equipment changes will reduce the risk of escapes and in terms of daily operations, the same management practices will apply to the amended site as apply to the current site, as detailed in the **Appendix F** and **Appendix G**.

Site specific attestations have been provided from equipment manufacturers that confirm equipment is suitable for the conditions expected at the site and will meet the design requirements specified by The Technical Standard for Scottish Finfish Aquaculture (**Appendices M-O**).

Sea lice management

There will be no increase in biomass at Fishnish B. **Appendix B (Modelling Summary Report)** and **Appendix H (Sea Lice Efficacy Statement)** demonstrate that the farm will continue to have access to quantities of in-feed and bath treatments that will allow efficacious treatment of sea lice at all stages of the production cycle. Fishnish B is an existing site where no increase to SLICE has been applied for, therefore as per the Framework for the application of SEPA's interim position on the use of emamectin benzoate in finfish farms (Version 2 18 October 2017), the Interim Position Statement does not apply in this case.

The existing Fishnish B farm has a good record of lice control in line with other farms in the Farm Management Area M35. This is reflected in the Marine Scotland screening response to this proposal. The sea lice management strategies that apply to the existing Fishnish B site will not change following a change in cage equipment. The following documents set out the preventative and reactive measures that will be taken to control and treat sea lice at Fishnish B and Farm Management Area M35:

- **Sound of Mull Sea Lice Strategy (Appendix I)**
- **Fishnish B Veterinary Health & Welfare Plan (Appendix J)**
- **SSF Sound of Mull Farm Management Statement (Appendix K)**

Overall the proposal to reconfigure this site is considered unlikely to be detrimental to the effective control and treatment of sea lice in the FMA.

8. Predator interactions

The proposed equipment changes to the existing Fishnish B site are not considered likely to increase the risk to predatory wildlife from disturbance or entanglement below the water. Cage nets will be upgraded to stronger polyethylene with increased net tensioning which will reduce the potential for entanglement of diving birds and seals and seal predation.

It is proposed to install a new design of top net which is taller than existing nets and supported with poles around the edge of the cage rather than the traditional 'hamster wheel' structure. As identified in the elevation drawing for the cage top nets (**Attachment G**) and the cages (**Attachment J**) the height of these nets above the water line will be 4.5m and the mesh size of the side panels will be between 50 and 75mm with a larger 300mm mesh on the top panel. These nets have been used by other fish farm companies in Scotland and are particularly suited to more exposed locations, and remove the need for a central support within the cage itself.

It is understood that 50mm is the preferred mesh size for top nets, considered by SNH as the least risk in terms of bird entanglement risk, and that a 300mm mesh top panel may present an increased risk of bird entanglement. To minimise this risk SSF propose the following adaptive management as mitigation:

- Monitor and record any instances of bird entanglement and make these records available to SNH and Argyll and Bute Council on request;
- Review entanglement records and if bird entanglements occur then consider in consultation with SNH, marking the top nets to make them more visible to birds;
- If bird entanglement continues, consider in consultation with SNH and Argyll and Bute Council appropriate alterations to the top net design.

9. Landscape

The landscape implications of the Fishnish B proposal are considered in **Appendix A (Fishnish A and B Landscape and Visual Appraisal)**.

10. Other marine activities and socio-economic considerations

Commercial fisheries

Creel fishing for prawns is known to occur to the west and east of the Fishnish B farm. The Sound of Mull Marine Spatial Plan (2010) also identifies possible scallop dredging ground to the north of the farm in deeper water.

The West Coast Regional Inshore Fisheries Group (WCRIFG) were consulted in March 2018 and no concerns were raised over the proposed reconfiguration of the Fishnish B farm. New fisheries management measures came into force in March 2016 which restricted certain type of fishing activity in specific parts of the Loch Sunart to Sound of Jura MPA. The proposed moorings extents of the Fishnish B farm is located within a zone where trawling and dredging are restricted. The proposed enlargement of the Fishnish B farm is therefore not likely to impact on scallop dredging in the Sound of Mull.

Overall it is considered that the proposed reconfiguration of the Fishnish B farm is unlikely to significantly affect local fishing interests.

Ferry traffic and safe navigation

The Fishnish to Lochaline ferry transits across the Sound of the Mull from the pier at Fishnish, to the east of the Fishnish B farm. The proposed reconfiguration has been aligned so that the moorings extent is no closer

to the ferry route channel in and out of Fishnish than at present, and the cage group has been deliberately extended to the West, away from the ferry. The farm will be marked as advised by the Northern Lighthouse Board and is not considered to present a navigational issue for the ferry operation or other vessels, being well south of the defined shipping route through the Sound of Mull.

Recreational interests

The Sound of Mull is popular both as a passage route and calm sailing area with sheltered anchorages in Craignure, Loch Aline, Salen and Tobermory. There are no designated anchorages in the vicinity of the farm but the Fishnish B farm will be visible to recreational boat traffic and tourists on the Fishnish to Lochaline ferry and the less frequent Oban to Coll/Barra ferries. There is also a core path and key coastal wildlife watching areas located to the east of the Fishnish ferry pier. The Landscape and Visual Appraisal (**Appendix A**) considers the likely effects on these receptors and concludes that there will be no significant change in visual impact between the existing and proposed cage configuration of the Fishnish B farm.

No significant adverse effects are identified on commercial and recreational activities and therefore no significant socio-economic impacts are anticipated. The proposed site configuration will ensure long term job security within the local community, maintaining the current levels of employment across the existing farm at Fishnish B.

11. Protected sites, habitats and species

Mingarry Burn Special Area of Conservation (SAC)

At the EIA screening stage SNH identified that the freshwater pearl mussel interest of the Mingarry Burn SAC should be considered as part of the determination of this development proposal given that it is within a 35km radius of the SAC. The seaward entrance of this SAC is approximately 31km (by sea) from the Fishnish B farm. Migratory salmonids such as salmon and sea trout play a vital part in the life cycle of fresh water pearl mussels and Mingarry Burn SAC is reliant on both juvenile salmon and trout (sea trout).

To inform the Habitats Regulations Appraisal (HRA) process that will need to be undertaken by Argyll and Bute Council the following concerns identified by SNH, which are relevant to potential interactions between fish farming and fresh water pearl mussels, are considered further:

- Impact from farm escapes
- Impact on increased lice burdens upon wild salmonid populations

The planning proposal being considered is for a change in cage equipment at the existing Fishnish B farm, with no change in maximum biomass, and therefore level of production. ***What is relevant to this assessment is therefore the changes to the farm and their likely consequences, rather than consideration of the entire farm and its current interaction with wild salmonids which has already been assessed under its existing planning permission.***

Impact from farm escapes

The proposal is to upgrade farm equipment from square steel cages to stronger plastic circular cages. The existing site uses nylon cage nets and it is proposed to upgrade these nets with significantly stronger polyethylene nets with increased net tensioning using sinker tubes. These equipment changes will reduce the risk of escapes from net damage, seal predation and storm events. In terms of daily operations, the same management practices will apply to the amended site as apply to the current site, as detailed in **Appendix F (Containment Plan)** and **Appendix G (Escapes Prevention Plan)**.

It is concluded that there is no increased risk to wild salmonids from farm escapes as a result of proposed changes at Fishnish B.

Impact of increased lice burdens upon wild salmonid populations

The existing Fishnish B farm has a good record of lice control in line with other farms in the Farm Management Area M35. This is reflected in the Marine Scotland screening response to this proposal. The sea lice management strategies that apply to the existing Fishnish B site will not change following a change in cage equipment. These are outlined in the following documents which are reviewed during the fallow period between production cycles and updated/amended as required:

- **SSF Sound of Mull Sea Lice Strategy (Appendix I)**
- **Fishnish B Veterinary Health & Welfare Plan (Appendix J)**
- **SSF Sound of Mull Farm Management Statement (Appendix K)**

There will be no increase in biomass at Fishnish B or significant change in the availability of medicinal treatments licenced by SEPA. The **Modelling Summary Report (Appendix B)** and **Sea Lice Efficacy Statement (Appendix H)** demonstrate that the farm will continue to have access to quantities of in-feed and bath treatments that will allow efficacious treatment of sea lice at all stages of the production cycle. Fishnish B is an existing site where no increase to Slice has been applied for therefore, as per the Framework for the application of SEPA's interim position on the use of emamectin benzoate in finfish farms (Version 2 18 October 2017), the Interim Position Statement does not apply in this case.

It is concluded that there is no increased risk to wild salmonids from farm derived sea lice as a result of proposed changes at Fishnish B.

Habitats Regulations Appraisal (HRA)

The approach to HRA follows a three-stage process as detailed in SNH guidance (SNH, 2010). Our conclusions on this appraisal are set out below.

- **Stage 1:** *Is the proposal directly connected with or necessary to the conservation management of a Natura site?*
- **Stage 2:** *Is the proposal likely to have a significant effect (LSE) on the qualifying features of a Natura site either alone or in-combination with other plans or projects?*
- **Stage 3:** *Can it be ascertained that the proposal will not adversely affect the integrity of a Natura site?*

Stage 1 - The proposal is not directly connected with or necessary to site management for the conservation of the SACs and therefore consideration of Stage 2 is required.

Stage 2 - While there is potential connectivity between the location of the farm and wild salmonids which are a key part of the SAC features lifecycle, there is no increased risk to wild salmonids as a result of the changes proposed. It is therefore concluded that the proposal is not likely to have a significant effect on the qualifying features of Mingarry Burn SAC, either alone or in-combination with other plans and projects. Consideration of Stage 3 is therefore not required.

Loch Sunart to Sound of Jura Nature Conservation Marine Protected Area

The Fishnish B farm lies within the Loch Sunart to the Sound of Jura Nature Conservation Marine Protected Area, selected for its common skate and Quaternary of Scotland glaciated channels and troughs. At the EIA screening stage SNH advised that the proposals potential direct and indirect impacts upon the Common Skate interests of the MPA should be assessed.

The SNH Management Options paper for this MPA states that juvenile and adult skate are unlikely to be affected by finfish farming but that skate eggs are considered to have a medium sensitivity to fish farm pressures such as siltation and surface abrasion from moorings. SNH have previously advised (in response to other fish farm applications) that proposals could theoretically result in reduced availability of prey species, particularly crustaceans in a relatively localised area of a farm.

The following potential direct and indirect effects have been considered:

- Direct impact on potential skate eggs
- Indirect impact on availability of prey species

Skate eggs

Although little is known about the breeding habits of common skate it is believed that their eggs are laid on shallow rocky reefs. Both the cage group and moorings extent of the proposed reconfiguration of the existing Fishnish A farm is located over substrates ranging from gravelly, muddy sand with scattered boulders to fine sand and then muddy sand, and do not overlap with shallow rocky reef habitat. Wider export of material as predicted by the modelling report is likely to result in low levels of seabed deposition which are unlikely to degrade potential egg laying habitat. Given the low potential for interaction with potential egg laying habitat and the likely wider extent of such habitat within the MPA, effects from deposition and mooring abrasion is considered unlikely to be significant.

Availability of prey species

The **Modelling Summary Report (Appendix B)** identifies that the proposed reconfiguration of cages at Fishnish B will adhere to the required SEPA environmental standards, with no significant change to the amount of licensed medicinal treatments and no significant change in predicted benthic impact, due to no net increase in biomass. Localised enrichment is likely to be restricted to directly below the cages given the dispersive nature of the farm location and predicted export of material away from the farm. Wider export of material as predicted by the modelling report is likely to result in low levels of seabed deposition which are unlikely to significantly affect prey species.

Overall, we do not consider that the proposal to configure the Fishnish B farm is capable of affecting, other than insignificantly, the common skate protected feature of the Loch Sunart to the Sound of Jura MPA.

Inner Hebrides and Minches Special Area of Conservation (SAC)

SNH advice

The Fishnish A and B farms are located within the Sound of Mull which is part of the Inner Hebrides and the Minches candidate SAC, selected for its harbour porpoise interest. SNH advice at the EIA screening stage identified that harbour porpoise is frequently recorded in the Sound of Mull and that based on experience with other similar fish farm proposals the development could have a 'likely significant effect' upon the common porpoise interest of the SAC, and therefore it is likely that this development will be subject to an 'Appropriate Assessment'.

SNH advise that the sensitivity of harbour porpoise to the development is in relation to any proposed use of Acoustic Deterrent Devices (ADDs) which may have the potential to disturb this species and other cetaceans. Any mitigation proposed should consider the implications of the proposal in terms of the individual site and cumulatively in respect of all sites in the Sound of Mull.

Seal predation and existing use of ADDs

High densities of fish at fish farms can attract predatory species including seals. If not managed, seals can cause damage to stocks and equipment, potentially leading to stock escapes, and sufficiently stress farmed stock to affect production. In addition to seeking to limit the loss of stock from both an economic and environmental perspective, Scottish Sea Farms have a legal duty of care to protect the health and welfare of farmed stock. Implementation of anti-predator measures are therefore essential to protect farmed stocks.

The Predator Exclusion Plans (**Appendix D**) for all Sound of Mull sites set out a sequential approach to anti-predator measures which takes a balanced approach to protection of farmed stocks and minimising effects on non-target wildlife. While high quality tensioned cage nets are the first line of defence against seal predation,

ADD use is an important secondary deterrent for seals, in the event that tensioned netting does not deter seal predation.

All five farms in the Sound of Mull have experienced seal predation at different times and Table 2 highlights the numbers of fish mortalities attributed to seal predation for sites in 2018, for all farms other than Bloody Bay. It is important to note that fish can also be stressed and stop feeding as a result of seal predation which is not demonstrated here. Data from 2017 has been provided for Bloody Bay as this site has been fallow so far in 2018.

Table 2: Number of fish mortalities attributed to seal predation

Site	Timescale	Seal related mortality
Bloody Bay	2017	4,252
Fishnish A	2018 (Jan-Aug)	217
Fishnish B	2018 (Jan-Aug)	128
Fiunary	2018 (Jan-Aug)	1,116
Scallastle	2018 (Jan- Aug)	2180

In line with existing planning permissions listed in Table 3 the Sound of Mull farms have used ADDs intermittently at all farms other than Bloody Bay.

Table 3: Planning permissions and ADD use restrictions for Sound of Mull sites

Site	Type of Planning	Restrictions on ADD use
Bloody Bay	2011 Order	None
Fishnish A	Review/Audit	None
Fishnish B	2011 Order	None
Fiunary	Review/Audit	None
Scallastle	Review/Audit	Use of ADDs should be restricted to times when there is visual presence or evidence of seal attacks only

The Bloody Bay farm experienced seal predation in early 2017 and up until this point seals had not been an issue and therefore ADDs had not needed to be used. As a result of significant damage to stocks in 2017 SSF would like to install ADDs at this farm for the next production cycle (commencing November 2018) which would be there as a back-up secondary measure should tensioned netting not deter seal predation.

Proposed use of ADDs and mitigation

It is proposed to have ADDs installed at all five SSF sites in the Sound of Mull and operated strictly in accordance with the **Sound of Mull ADD Deployment Plan (Appendix E)**. This plan sets out a sequential approach which ensures that ADDs are only used where tensioned netting is not fully effective against seal predation and where seal related fish mortality is demonstrated. Stages are included which define when ADDs can be activated and when they should be deactivated to prevent use over prolonged periods of time.

Improved cage nets

With the investment in new cage infrastructure proposed for Fishnish A and B new cage nets will also be installed. These will replace the existing standard nylon cage nets with significantly stronger polyethylene nets and increased cage net tensioning using sinker tube technology. These new nets have been trialled at other SSF sites and have in most cases significantly reduced the level of seal predation and number of seal-related fish mortalities. It is anticipated that damage to fish from seals will be reduced at Fishnish A and B and therefore overall the likelihood of needing to switch ADDs on will be reduced.

Cage nets for all other Sound of Mull farms will be replaced with the stronger polyethylene nets at the start of the next production cycle for each farm, as identified in Table 4.

Table 4: Proposed timing of net replacement for Sound of Mull sites

Site	Proposed year of net replacement
Bloody Bay	2018
Fishnish A	2019
Fishnish B	2019
Fiunary	2021
Scallastle	2021

Cumulative use of ADDs

SNH expressed concern over the potential of ADD use simultaneously across all fish farms in the Sound of Mull to cause significant disturbance and displacement to harbour porpoise within this area of the SAC. During the next production cycle (2019-2021) the Fiunary and Scallastle farms will still have nylon cage nets and therefore will be at an increased risk of seal predation compared to the other sites which will have stronger polyethylene nets and improved net tensioning. These are therefore the sites that would be most likely to require simultaneous ADD use.

To minimise the potential for cumulative impacts on cetaceans a pragmatic proposal which restricts the simultaneous use of ADDs to either: one of the five Sound of Mull farms; or the Fiunary and Scallastle farms to use ADDs at the same time, has been included in the revised ADD Deployment Plan.

It is recognised that there is significant uncertainty over the likely disturbance range of ADDs for cetaceans, which could be higher or lower depending on many factors such as ambient noise, bathymetry, hearing threshold and behavioural response of individual animals. Avoidance responses to ADDs have been well studied for harbour porpoise and available studies reviewed by Coram *et al.* (2014) identified some variability in terms of response distances but generally concluded that there was a zone of exclusion within a few hundred metres and a wider zone of disturbance up to several kilometres within which numbers of individuals decreased. Studies cited in the Coram paper that assessed Airmar ADDs identified disturbance effects ranging from 991m to 3.5km.

Cumulative disturbance will be a function of noise level and the duration animals are exposed to noise if transiting through the sound. The maximum simultaneous use of ADDs allowed by the proposed ADD Deployment Plan within the Sound of Mull would be Fiunary and Scallastle farms, which are 16.5km apart (measured from site centres). Using 3.5km as a rough guide to potential disturbance effects the simultaneous use of ADDs at these two sites would not cause disturbance over an overlapping and extended length of the Sound of Mull. The use of ADDs would also be temporary with a maximum duration period of two weeks before the ADD protocol is restarted, further reducing the risk of cumulative disturbance.

ADD use beyond 2021

SSF acknowledge that the Sound of Mull lies within the Inner Hebrides and Minches SAC designated for its harbour porpoise population and that it is considered a sensitive location in terms of potential indirect and unintentional disturbance of porpoise and other cetaceans from underwater sound generated by ADDs. Once all farms have upgraded to polyethylene nets with improved net tensioning and we can demonstrate that these improvements can limit seal predation to an acceptable level, it is our intention to completely phase out the use of ADDs in the Sound of Mull.

Monitoring and review

SSF continuously monitor, review and adapt farming practices to improve farm management. The ADD Deployment Plan also commits to daily recording of signs of seal predation, seal related fish mortalities and use of ADDs which will be available to Argyll and Bute Council and SNH on request. This information will inform a review of the ADD Deployment Plan at the end of each production cycle with any future changes being agreed in consultation with SNH and Argyll and Bute Council.

Conclusion

The Sound of Mull and the Fishnish area in particular, have supported significant records of harbour porpoise activity in recent years, despite existing ADD use in this area. SSF do however accept that the Sound of Mull is a sensitive location in terms of potential indirect and unintentional disturbance of porpoise and other cetaceans. We have therefore identified significant changes in ADD use at all Sound of Mull sites which will reduce the risk of significant disturbance. These include:

- Investment in stronger cage nets and associated net tensioning which should reduce the need to use ADDs;
- Replacing continuous ADD use at sites with limited ADD use where tensioned netting has not been fully effective against seal predation and seal related fish mortality is demonstrated;
- Limiting the amount of time ADDs can remain on;
- Limiting simultaneous use of ADDs to a maximum of two sites;
- Intention to remove ADDs from all farms in 2021 once cage nets are fully upgraded.

The measures proposed will significantly reduce the level of ADD use within the Sound of Mull compared to existing use and will reduce the risk of significant cumulative impacts on harbour porpoise and other cetacean species in the Sound of Mull. We therefore consider that these measures provide appropriate mitigation that will avoid an adverse effect on site integrity of the Inner Hebrides and Minches SAC.

References

1. [Coram, A., Gordon, J., Thompson, D. and Northridge, S \(2014\). Evaluating and assessing the relative effectiveness of non-lethal measures, including Acoustic Deterrent Devices, on marine mammals. Scottish Government.](#)



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By email to: planning.oland@argyll-bute.gov.uk

Planning Services
Argyll & Bute Council
Municipal Buildings
Albany Street
Oban
PA34 4AW

Date: 13 February 2019
Your ref: 18/02024/MFF
Our Ref: CDM152613

Dear Sir/ Madam,

TOWN AND COUNTRY PLANNING (SCOTLAND) ACT 1997

PROPOSAL: Replacement of existing steel square cages with 10 x 100m circumference cages and retention of feed barge (with no increase in biomass)

SITE ADDRESS: Fishnish A, Fish Farm Fishnish Craignure Isle of Mull Argyll and Bute

Thank you for your consultation dated 12th February 2019 regarding the above proposal. As requested in our response letter to you dated 2nd November 2018, the applicant has submitted a revised Acoustic Deterrent Device (ADD) Deployment Plan (version 0.7), which allows us to conclude our advice on this application. Please note that our advice on all other natural heritage matters detailed in our letter of 2nd November 2018 remain valid.

Summary

In combination with other fish farm sites, this proposal will have a likely significant effect upon the Inner Hebrides and Minches Special Area of Conservation (SAC), notified for its harbour porpoise interest. However, implementation of the revised ADD deployment plan (version 0.7) will ensure that disturbance to harbour porpoise will be minimised to an acceptable level and that it will not have an adverse impact upon site integrity. As this proposal affects an internationally important natural heritage interest, we object to this proposal unless it is subject to a planning condition which ensures full implementation of the ADD Deployment Plan (version 0.7) and that any future revisions are approved by the Council, in consultation with SNH.

Appraisal

Inner Hebrides and Minches Special Area of Conservation

Fishnish is located within the Sound of Mull, which falls within the boundaries of the Inner Hebrides and Minches Special Area of Conservation (SAC), designated for its harbour porpoise population. Our previous response dated 2nd November 2018 detailed our concerns regarding the initial ADD Deployment Plan for the Sound of Mull. We advised there was potential for ADDs to cause significant disturbance and displacement to harbour porpoise and that in combination with other existing sites, this proposal would have a likely significant effect upon the SAC and we could not rule out adverse impact upon site integrity at this time.

The alterations contained within the revised ADD deployment plan ensure that the risks to harbour porpoise are reduced to an acceptable level. Improvements include fewer sites using ADDs, an agreed protocol for their activation/ deactivation and a guarantee limiting systematic ADD activation within the Sound of Mull. The applicant has liaised with us regarding these improvements.

In our view, this proposal is likely to have a significant effect on harbour porpoise. Consequently, Argyll and Bute, as competent authority, is required to carry out an appropriate assessment in view of the site's conservation objectives for its qualifying interest(s). To help you do this, we advise that in our view on the basis of the information provided, if the proposal is undertaken strictly in accordance with the ADD Deployment Plan (version 0.7), then the proposal will not adversely affect the integrity of the site.

If the planning authority intends to grant planning permission against this advice without the suggested conditions, you must notify Scottish Ministers.

If you require any further advice from regarding on the above please do not hesitate to contact Colin MacFarlane on 0131 3162688 (Colin.MacFarlane@nature.scot).

Yours sincerely

Andrew Campbell
Operations Manager
Andrew.Campbell@nature.scot



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All of nature for all of Scotland
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By email to: planning.oland@argyll-bute.gov.uk

Planning Services
Argyll & Bute Council
Municipal Buildings
Albany Street
Oban
PA34 4AW

Date: 13 February 2019
Your ref: 18/02166/MFF
Our ref: CDM152993

Dear Sir/ Madam,

TOWN AND COUNTRY PLANNING (SCOTLAND) ACT 1997

PROPOSAL: Replacement of existing steel square cages with 7 x 100m circumference cages and replacement of feed barge (with no increase in biomass)

SITE ADDRESS: Fishnish B, Fish Farm Fishnish Craignure Isle of Mull Argyll and Bute

Thank you for your consultation dated 12th February 2019 regarding the above proposal. As requested in our response letter to you dated 22nd November 2018, the applicant has submitted a revised Acoustic Deterrent Device (ADD) Deployment Plan (version 0.7), which allows us to conclude our advice on this application. Please note that our advice on all other natural heritage matters detailed in our letter of 22nd November 2018 remain valid.

Summary

In combination with other fish farm sites, this proposal will have a likely significant effect upon the Inner Hebrides and Minches Special Area of Conservation (SAC), notified for its harbour porpoise interest. However, implementation of the revised ADD deployment plan (version 0.7) will ensure that disturbance to harbour porpoise will be minimised to an acceptable level and that it will not have an adverse impact upon site integrity. As this proposal affects an internationally important natural heritage interest, we object to this proposal unless it is subject to a planning condition which ensures full implementation of the ADD Deployment Plan (version 0.7) and that any future revisions are approved by the Council, in consultation with SNH.

Appraisal

Inner Hebrides and Minches Special Area of Conservation

Fishnish is located within the Sound of Mull, which falls within the boundaries of the Inner Hebrides and Minches Special Area of Conservation (SAC), designated for its harbour porpoise population. Our previous response dated 22nd November 2018 detailed our concerns regarding the initial ADD Deployment Plan for the Sound of Mull. We advised there was potential for ADDs to cause significant disturbance and displacement to harbour porpoise and that in combination with other existing sites, this proposal would have a likely significant effect upon the SAC and we could not rule out adverse impact upon site integrity at this time.

The alterations contained within the revised ADD deployment plan ensure that the risks to harbour porpoise are reduced to an acceptable level. Improvements include fewer sites using ADDs, an agreed protocol for their activation/ deactivation and a guarantee limiting systematic ADD activation within the Sound of Mull. The applicant has liaised with us regarding these improvements.

In our view, this proposal is likely to have a significant effect on harbour porpoise. Consequently, Argyll and Bute, as competent authority, is required to carry out an appropriate assessment in view of the site's conservation objectives for its qualifying interest(s). To help you do this, we advise that in our view on the basis of the information provided, if the proposal is undertaken strictly in accordance with the ADD Deployment Plan (version 0.7), then the proposal will not adversely affect the integrity of the site.

If the planning authority intends to grant planning permission against this advice without the suggested conditions, you must notify Scottish Ministers.

If you require any further advice from regarding on the above please do not hesitate to contact Colin MacFarlane on 0131 3162688 (Colin.MacFarlane@nature.scot).

Yours sincerely

Andrew Campbell
Operations Manager
Andrew.Campbell@nature.scot



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Nàdar air fad airson Alba air fad

By email to: planning.oland@argyll-bute.gov.uk

Planning Services
Argyll & Bute Council
Municipal Buildings
Albany Street
Oban
PA34 4AW

Date: 14 February 2019
Your ref: 19/00136/SCRSCO

Dear Sir/ Madam,

ENVIRONMENTAL IMPACT ASSESSMENT (SCOTLAND) REGULATIONS 2011
REQUEST FOR A SCREENING AND SCOPING OPINION UNDER REGULATION 6

PROPOSAL: Screening and Scoping request for proposed alterations/extension to existing fish farm

SITE ADDRESS: Geasgill Fish Farm, Ulve Ferry, Isle of Mull.

Thank you for your consultation of 24 January 2019 regarding the above development proposal. For our interests we do not require an Environmental Impact Assessment and would advise of the need for the relevant natural heritage information detailed in the scoping report and that requested below. I provide the following advice for your consideration.

1 Inner Hebrides and Minches Special Area of Conservation

Geasgill is located within the boundaries of the Inner Hebrides and Minches Special Area of Conservation (SAC), designated for its Harbour porpoise population. The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") apply. Consequently, Argyll and Bute Council is required to consider the effect of the proposal on the SAC before it can be consented (commonly known as Habitats Regulations Appraisal).

Harbour porpoise are frequently recorded within this area of the SAC and we note that Acoustic Deterrent Devices (ADDs) could be used at this site. Intended to deter seal attacks, ADDs can cause disturbance and displacement to cetaceans, including harbour porpoise. We would advise that this development could have a likely significant effect upon the harbour porpoise interest of the SAC and that the development could be subject to an appropriate assessment.

The application must be supported by a species impact assessment. The assessment should consider the direct and indirect impacts of the development upon the common porpoise interest of the SAC. The impact of seal scaring devices such as ADDs upon harbour porpoise must be considered at an individual development level and cumulatively, with others in outer and inner Loch Na Keal, as well as Loch Tuath.

We would advise that any future planning application is supported by an ADD deployment plan, which details the following:

- The model, firing details, frequency and number of ADDs within the target area (i.e. outer and inner Loch Na Keal, as well as Loch Tuath)
- Protocol for ADD activation/ deactivation
- Monitoring and review procedures for ADD usage
- Protocol and agreements to limit systematic ADD usage within the target area

SNH welcome discussions with the applicant prior to submission of the above required plan.

2 Mingarry Burn Special Area of Conservation

The Mingarry Burn SAC, which is designated for its freshwater pearl mussel interest is located approximately 35km from Geasgill. The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") apply. We advise that the application is at the periphery of where a measurable effect upon individual sea trout or salmon (both host species for mussel larvae) within the burn could be detected, whilst any impact at the population level within the SAC would be associated with sites much closer.

We advise that although the proposal could have a likely significant effect upon the Mingarry Burn SAC it will not have an adverse impact upon site integrity. To minimise impacts upon local sea trout and wild salmon populations the application should however be supported by:

- Predator protection plan,
- Escapees contingency plan
- Lice treatment and monitoring plan.

3 Landscape

Geasgill is located within the Loch na Keal National Scenic Area (NSA). We advise that any final design iterations follow our best practice guidance (The siting and design of aquaculture in the landscape: visual and landscape considerations - <http://www.snh.gov.uk/publications-data-and-research/publications/search-the-catalogue/publication-detail/?id=113>).

We advise that a LVIA should be produced for this proposal; there have been a number of stepped increases in the size of this fish farm and it is important to ensure that this proposal and any suggested mitigation are appropriate for this location. We note the basic LVIA within the scoping document and would encourage this to be built upon and supported by visuals/ wirelines as required. Further details of any additional

infrastructure (including feed barge design and location) should also be given in a further application. The applicant should refer to our updated visualisation guidance: <https://www.nature.scot/visualisations-aquaculture-guidance-note>

4 Priority Marine Features

The applicant must undertake a survey for Priority Marine Features within and adjacent to the application site. A Priority Marine Feature impact assessment and mitigation plan should be submitted with the final application.

5 European Protected Species

Several cetacean species are recorded within the Loch na Keal area. We would advise that the above assessment for harbour porpoise also considers the direct and indirect impacts of the development upon these interests.

If you require any further advice from regarding on the above please do not hesitate to contact me.

Yours sincerely

Colin MacFarlane
Operations Officer

01313162688
Colin.MacFarlane@snh.gov.uk

By email to: planning.oland@argyll-bute.gov.uk

24 July 2019

Your ref: 19/01293/MFF

Our ref: CDM155997

Dear Sir/Madam,

TOWN AND COUNTRY PLANNING (SCOTLAND) ACT 1997
PROPOSAL: MODIFICATION OF SALMON FARM COMPRISING THE ADDITION OF TWO X 100
METRE CIRCUMFERENCE CAGES AND INCREASE OF BIOMASS FROM 2091 TONNES TO
2500 TONNES
LOCATION: GEASGILL, LOCH NA KEAL, ISLE OF MULL

Thank you for consulting Scottish Natural Heritage (SNH) on the above development proposal.

Summary

The proposed development is located within the boundaries of the Inner Hebrides and Minches Special Area of Conservation (SAC) and is close to the Sea of the Hebrides possible Marine Protected Area (pMPA). Additionally, the proposed development is located within the Loch na Keal, Isle of Mull National Scenic Area (NSA).

- In our view, based on the information provided, we consider that this proposal is unlikely to result in an adverse impact on the site integrity of the SAC. It should be noted that our advice is based on the ADD Deployment Plan provided with the application.
- The proposal will not have an adverse effect on the integrity of the NSA or the qualities for which it has been designated.
- We recommend that you consider whether conditions are required to ensure the development is implemented as proposed.

Assessment of the Impacts on the Natural Heritage

1. Inner Hebrides and Minches Special Area of Conservation (SAC)

This proposal is located within the Inner Hebrides and the Minches SAC, designated for its population of harbour porpoise. The site's status means that the requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the "Habitats Regulations") apply. Consequently, Argyll and Bute Council is required to consider the effect of the proposal on the SAC before it can be consented (commonly known as Habitats Regulations Appraisal). The SNH website has a summary of the legislative requirements: <https://www.nature.scot/professional-advice/planning-and-development/environmental-assessment/habitats-regulations-appraisal-hra/habitats-regulations-appraisal-hra>.

In our view, this proposal is likely to have a significant effect on harbour porpoise within Inner Hebrides and the Minches SAC because the predator control plan includes the use of acoustic deterrent devices (ADDs). Consequently, Argyll and Bute Council is required to carry out an appropriate assessment in view of the site's conservation objectives for its qualifying interest. To help you do this, we advise that in our view, on the basis of the information provided and the appraisal carried out to date, it will not adversely affect the integrity of the site. The advice from our appraisal is as follows:

- The hearing range of harbour porpoise includes the sound frequencies emitted by the proposed ADD model. As a result we consider that the use of ADDs may result in disturbance/habitat exclusion^[1].
- In our view the ADD deployment plan identifies an appropriate decision making process to guide the activation/deactivation of ADD's and this will ensure that the long term and continuous use of ADD's at this location will be avoided.
- Conservation Objective 2b states that the distribution of harbour porpoise throughout the site is maintained by avoiding significant disturbance. Significant disturbance in this context is where changes to the distribution of harbour porpoise occur on a continuing or sustained basis. We consider that in this location any short term temporary disturbance or displacement as a result of the deployment of ADD in line with the ADD deployment plan will not result in significant disturbance.

We would like to highlight the importance of ensuring that the measures outlined in the ADD deployment plan (including the type and number of devices and the requirement for monitoring and reporting) are set as a requirement of any planning consent, should Argyll and Bute Council be minded to approve this application.

We consider that the ongoing review of ADD use is an essential component of the deployment plan and as such we would like to highlight that an appropriate review process should be part of any consent granted. By ensuring a review process is in place Argyll and Bute Council, as the Competent Authority, in consultation with SNH, will maintain a mechanism to require future changes to the plan should they be deemed necessary.

We recommend that you consider whether it is necessary to impose conditions to achieve the above mitigation. You may wish to carry out further appraisal before completing the appropriate assessment.

2. Sea of the Hebrides possible Marine Protected Area (pMPA)

The proposal is within approximately 600m of the Sea of the Hebrides pMPA selected for its basking shark and minke whale.

The Scottish Government has a policy of protecting such sites as if they were designated as set out in the Marine Protected Areas Management Handbook. The legal protection afforded to designated NC MPAs is set out in the Marine (Scotland) Act 2010. Consequently, Argyll and Bute Council is required to consider the effect of the proposal on the pMPA before it can be consented.

There are natural heritage interests of national importance on the site which could be affected by this proposal, but in our view, there is no significant risk of hindering the achievement of the conservation objectives.

2.1 Minke Whale

In our view, this proposal is capable of affecting, other than insignificantly, the minke whale protected feature of the sea of the Hebrides the pMPA. Consequently, Argyll and Bute Council is required to carry out an assessment to determine if there is a significant risk of hindering the achievement of the conservation objectives.

To help you do this we advise that, in our view, based on the information provided and the appraisal carried out to date, the proposal will not result in a significant risk of hindering the achievement of the conservation objectives of the pMPA. The appraisal we carried out considered the impact of the proposals on the following factors:

- The hearing range of minke whale includes the sound frequencies emitted by the proposed ADD model. As a result we consider that the use of ADDs may result in disturbance/habitat exclusion^[2]. The same mitigation that applies to the Inner Hebrides and Minches SAC also applies to the Sea of the Hebrides pMPA. We consider that provided the ADD deployment plan is adhered to then any significant risk of hindering the conservation objectives of the pMPA will be avoided.

3. Loch na Keal, Isle of Mull National Scenic Area (NSA)

The landscape effects which would arise as a result of the addition of the two proposed pens would unlikely be of a magnitude that would significantly impact on the NSA's special qualities.

However the incremental extension of such developments results in a shifting baseline which always acts in favour of the extension. Therefore, any future-extension to this fish-farm should be considered cumulatively together with previous extensions and this should also be reflected in the visuals.

If you have any comments or questions regarding the above, please do not hesitate to contact me.

Yours sincerely

Ruari Dunsmuir
Operations Officer
Argyll & Outer Hebrides
ruari.dunsmuir@nature.scot

^[2] For example - **Coram** A., Gordon J., Thompson D. & Northridge S. 2014. Evaluating and assessing the relative effectiveness of non-lethal measures, including Acoustic Deterrent Devices on marine mammals. Scottish Government
Götz T., & Janik V.M. 2013 Acoustic deterrent devices to prevent pinniped depredation: efficiency, conservation concerns and possible solutions. *Marine Ecology Progress Series* 492: 285-302

Natura Appraisal Form

Casework Recording Ref	CDM155997

1a. Name of the Natura Site affected & current status

Inner Hebrides and the Minches SAC (Current)

1b. Name of component SSSI if relevant

1c. European qualifying interest(s) & whether priority/non-priority:

Inner Hebrides and the Minches SAC
Harbour porpoise (<i>Phocoena phocoena</i>)

1d. Conservation objectives for qualifying interests:

Inner Hebrides and the Minches SAC

2a. Proposal Title

Geasgill, Isle of Mull - Addition of two x 100 metre circumference cages

2b. Date consultation sent	26-Jun-2019
2c. Date consultation received	26-Jun-2019
2d. Name of consultee	
2e. Name of competent authority	Argyll & Bute Council
2f. Type of case	Consultation (Development Management)

2g. Details of proposed operation

The Extension would comprise of 2 x 100 m circumference pens. The pens will be held in adjacent linear rows of two pens, immediately to the east of the Existing Site. The whole site (Existing Site and Extension) will be held within a total 14 x 60 m mooring grid layout. Further infrastructure would include moorings and bird nets for the Proposed Pens. The Proposed Pens would be linked to the feed barge associated with the Existing Site via surface feed pipes.

APPRAISAL IN RELATION TO REGULATION 48

3a. Is the operation directly connected with or necessary to conservation management of the site? YES/NO If YES give details:

No.

If yes and it can be demonstrated that the elements in 3b have been applied to all the interest features in a fully assessed and agreed management plan then consent can be issued but rationale must be provided, including reference to management objectives. If no, or if site has several European qualifying interests and operation is not directly connected with or necessary to the management of all of these then proceed to 3b.

3b. Is the operation likely to have significant effect on the qualifying interest? Consider each qualifying interest in relation to the conservation objectives.

- i) indicate which feature of interest could be affected by the proposed operation and briefly in what way; if none provide a brief justification and then proceed to v), otherwise continue;*
- ii) refer to other plans/projects with similar effects/other relevant evidence;*
- iii) consider scale, longevity, and reversibility of effects;*
- iv) consider whether proposal contributes to cumulative or incremental impacts with other projects competed, underway or proposed;*
- v) give Yes/No conclusion for each interest.*

Yes. In our view, this proposal is likely to have a significant effect on harbour porpoise within Inner Hebrides and the Minches SAC because the predator control plan includes the use of acoustic deterrent devices (ADDs).

If yes, or in cases of doubt, proceed to 3c. If potential significant effects can easily be avoided, go straight to 4 and record modifications required. If no for all features, a consent or non-objection response can be given and recorded under 6 (although if there are other features of national interest only, the effect on these should be considered separately).

Mitigation or modifications required to avoid a likely significant effect & reasons for these:

3c. Appraisal of the implications for the site in view of the site's conservation objectives.

- i) Describe for each European qualifying interest the potential impacts of the proposed operation detailing which aspects of the proposal could impact upon them and their conservation objectives*
- ii) Evaluate the significance of the potential impacts, e.g. whether short/long term, reversible or irreversible, and in relation to the proportion/importance of the interest affected, and the overall effect on the site's conservation objectives. Record if any information or specialist advice has been obtained.*
- iii) In the light of the appraisal, ascertain whether the proposal will not adversely affect the integrity of the site for the qualifying interests. If SAC and/or SPA and/or Ramsar site give separate conclusions. If conditions or modifications are required, proceed to 4.*

In our view, on the basis of the information provided and the appraisal carried out to date, it will not adversely affect the integrity of the site. The advice from our appraisal is as follows: • The hearing range of harbour porpoise includes the sound frequencies emitted by the proposed ADD model. As a result we consider that the use of ADDs may result in disturbance/habitat exclusion. • In our view the ADD deployment plan identifies an appropriate decision making process to guide the activation/deactivation of ADD's and this

will ensure that the long term and continuous use of ADD's at this location will be avoided. • Conservation Objective 2b states that the distribution of harbour porpoise throughout the site is maintained by avoiding significant disturbance. Significant disturbance in this context is where changes to the distribution of harbour porpoise occur on a continuing or sustained basis. We consider that in this location any short term temporary disturbance or displacement as a result of the deployment of ADD in line with the ADD deployment plan will not result in significant disturbance.

4. Conditions or modifications required.

Indicate conditions/modifications required to ensure adverse effects are avoided, & reasons for these.

We would like to highlight the importance of ensuring that the measures outlined in the ADD deployment plan (including the type and number of devices and the requirement for monitoring and reporting) are set as a requirement of any planning consent. We consider that the ongoing review of ADD use is an essential component of the deployment plan and as such we would like to highlight that an appropriate review process should be part of any consent granted.	By ensuring a review process is in place Argyll and Bute Council, as the Competent Authority, will maintain a mechanism to require future changes to the plan should they be deemed necessary.

5. Advice sought.

Include here details of or clear reference to, advice sought from AS, colleagues etc. If no advice sought give brief reasons/justification

Objective Documents zA184915A3013726

6. RESPONSE

a) Natura comments (for additional guidance see Development Management and Natural Heritage, section 8, or the Natura Model Responses (in the Natura Casework Guidance) for all other Natura casework)

5a - LSE but no adverse effect on site integrity (AESI).

b) SNH Comments (for additional guidance see Development Management and Natural Heritage, section 8)

For SNH advice to other authorities:

For SNH response to request for opinion on effects of permitted development:

For SNH response to application for consent/licence:

Appraised by	Ruari Dunsmuir
Date	23-JUL-2019
Checked by	
Date	

The Scottish Salmon Company



ADD Deployment and Usage Plan

Geasgill, Loch na Keal

Date	April 2019
Revision No.	A1
Author	Penny Hawdon
Reviewed	Iain MacIntyre
Approved by	Marc Browne

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1. INTRODUCTION

As a farm operator, it is important that Scottish Salmon Company (SSC) is able to protect the fish held on site from any predator threat and has developed a site specific Predator Control Plan for the Geasgill site, which details the measures that will be used to deter avian and mammalian predators. The use of Acoustic Deterrent Devices (ADDs) forms part of this plan.

2. PURPOSE OF ADD DEPLOYMENT AND USAGE PLAN

This plan has been prepared, and provided to Argyll and Bute Council, as supporting information to a planning application for an extension to the Geasgill marine fish farm, Loch na Keal. The plan has been prepared to meet the requirements of Scottish Natural Heritage (SNH), as detailed in their response to the Scoping request for this development (Reference 19/00136/SCRSCO).

The Geasgill site is located c.500m within the boundary of the 'Inner Hebrides and the Minches' candidate Special Area of Conservation (cSAC) for harbour porpoise. The Conservation Objectives for the Inner Hebrides and the Minches cSAC are;

1. *To ensure that the Inner Hebrides and the Minches SAC continues to make an appropriate contribution to harbour porpoise remaining at favourable conservation status;*
2. *To ensure for harbour porpoise within the context of environmental changes, that the integrity of the Inner Hebrides and the Minches SAC is maintained through 2a, 2b and 2c:*
 - 2a. *Harbour porpoise within the Inner Hebrides and the Minches are not at significant risk from injury or death;*
 - 2b. *Distribution of harbour porpoise throughout the site is maintained by avoiding significant disturbance; and*
 - 2c. *The condition of supporting habitats and the availability of prey for harbour porpoise are maintained.*

In order to ensure that SSC operations at the Geasgill site meet Objective 2, careful consideration has been given to the methods of seal deterrence which may be used, in particular Acoustic Deterrent Devices (ADDs). This is due to the potential for interaction with cetaceans in the vicinity of the site. Various measures will be employed at the Geasgill site prior to ADDs being considered necessary, and these measures are detailed in the Predator Control Plans.

3. ADD DEPLOYMENT AND USAGE

3.1 Equipment Specification – OTAQ SealFENCE

The proposed ADD for the Geasgill site is the **OTAQ SealFENCE Seal Deterrent System**. This system uses a bespoke ultrasonic transmission to create an acoustic fence around the cages, intended to deter seals. Technical details of the system are as follows:

Frequency	8 – 12kHz (single waveform centred around 10kHz)
Source level	198dB re 1µPa/@1m
Duty Cycle	Variable depending on demand
Standard operation	2 second pulse every 8 – 12 seconds (random (can be increased or decreased from central control))

OTAQ will provide installation, staff training, and maintenance of the whole system. OTAQ will also provide any necessary software updates.

A SealFENCE deployment system has been designed specifically by OTAQ for the Geasgill site. Each transmitter provides around 45m (90m diameter range) of deterrence to seals and a total of 16 projectors will be located around the perimeter of the cage groups. The proposed layout of units is shown below in Figure 1 (diagram provided by OTAQ). This will ensure that, when activated, there is an effective perimeter protection with sufficient overlap between each projector.

The SealFENCE system can be controlled centrally from the barge. This provides the farm manager with a visual representation of how the system is operating and allows the activation or deactivation of the system.

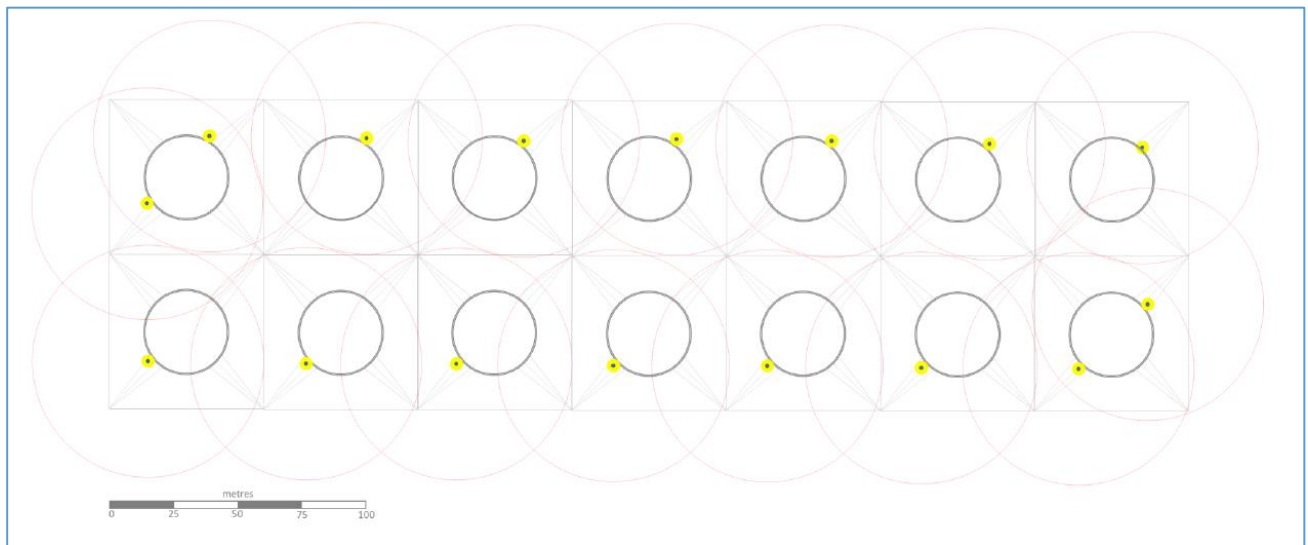


Figure 1 - Proposed SealFENCE design and coverage at existing Geasgill site. Yellow dots show location of each Sealfence system

3.2 Triggers for Activation

It is proposed that the system is normally switched off and may be activated by the site manager.

Sightings of seals, in close proximity to the site, will be recorded by site staff regularly in the Seal Log. Seal activity within the site boundary will result in appropriate action being taken in line with the Predator Control Plan.

The decision to activate and deactivate the SealFENCE will be made by the site manager, in accordance with the attached ADD deployment decision flow diagram (Figure 2). The ADD deployment plan and decision flow will be followed if mortalities which are directly attributable to seal kills are recorded. It is imperative that SSC protect their stock, therefore the ADD will remain operational for as long as seal mortalities are being recorded, within a maximum 2-week period. The effectiveness of the system, and the requirement for the continued activation of the system, will be reviewed daily within this period. If zero seal mortalities are recorded for 5 consecutive days, ADDs will be switched off. Continued use of the SealFENCE will be reviewed at the end of the initial 2-week period.

Details on SealFENCE activation/de-activation and performance are recorded electronically by the system. Further details on activation 'triggers' are provided in the flow diagram.

3.3 Data Logging

3.3.1 *Use of ADDs*

Detailed records will be kept by SSC on the duty cycle of the ADD, which will detail deployment cues, operational dates, sound frequency and duration. In addition, the SealFENCE system contains a monitoring component, which continuously monitors and records the output from each projector. As well as allowing operators to verify that their system is working correctly in real-time, this also means that it can provide data verifying exactly how a system has been working during a period of time. This will allow for a full record of dates and times that the device is sounding, and the duration. A report analysing this information will be presented to Argyll and Bute Council (ABC) prior to the review meeting.

3.3.2 *Predation*

Seal activity in the proximity of the site will be recorded in the Seal Log and site diary, and seal mortalities will be recorded on the FishTalk system. Cetacean sightings will also be recorded in the site-specific Wildlife Log. As noted above, records will be kept by SSC, which will detail deployment cues, operational dates, sound frequency, and duration. This information will be reviewed collectively by the site manager and regional manager at the end of each production cycle and will inform future decisions on predator control measures at the site.

4. RESPONSIBLE PERSONS

- Site Manager and Senior Marine Operative.

5. REVIEW PROCESS

SSC commits to meet with Argyll and Bute Council (and Scottish Natural Heritage (SNH), if requested), at least annually, unless otherwise agreed in writing with ABC, to review the ADD Deployment Plan, and information gathered from the Seal Log, Wildlife Log and ADD performance records. The robustness of the ADD deployment plan will be reviewed at these meetings and SSC commits to adopt any changes to the plan deemed necessary by ABC to meet the the cSAC Conservation Objectives.

6. ASSOCIATED DOCUMENTS

- Geasgill Wildlife Log;
- Geasgill Seal Log;
- Geasgill Predator Control Plan;
- Geasgill ADD Deployment Plan; and
- Geasgill ADD records.

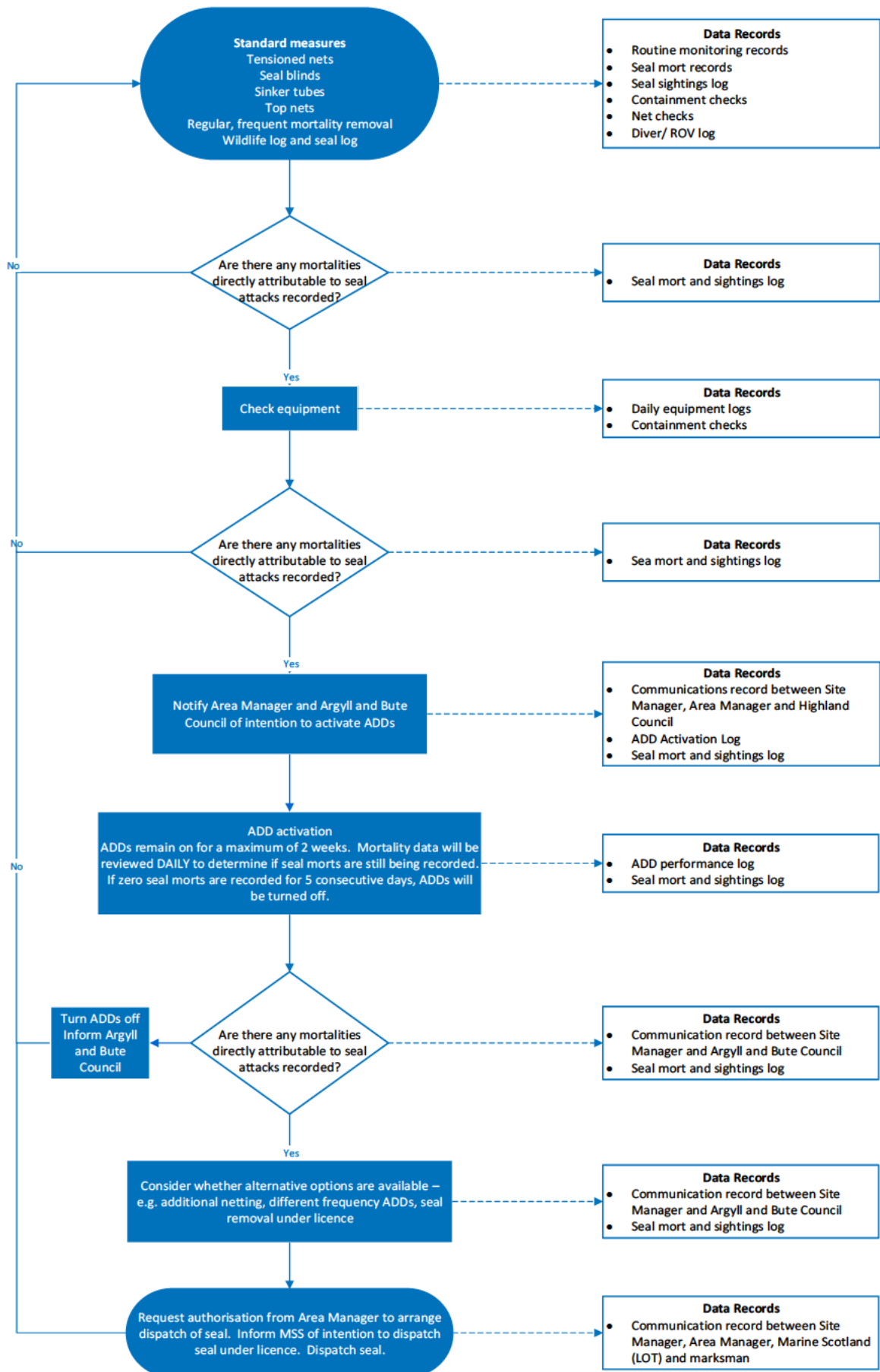


Figure 2 - ADD decision flow diagram



Scottish Natural Heritage Dualchas Nàdair na h-Alba

All of nature for all of Scotland
Nàdar air fad airson Alba air fad

Director of Planning and Development
The Highland Council
Glenurquhart Road
Inverness
IV3 5NX

FAO: Mark Harvey

Your ref: 19/02076/FUL

Date: 6 September 2019

Dear Mark,

TOWN & COUNTRY PLANNING (SCOTLAND) ACT 1997 CHANGE OF EQUIPMENT AND RELOCATION OF EXISTING SALMON FARM AT LEINISH, LOCH DUNVEGAN, ISLE OF SKYE

Thank you for consultation regarding the above.

Summary

In our view it is unlikely that the proposals as currently described will have a significant effect on harbour porpoise or common seal associated with the two Special Areas of Conservation. Any future proposals to change the anti-predator methods should be re-assessed and we recommend that you consider whether it is necessary to impose conditions to that effect.

Background

The proposal is to change the equipment at an existing fish farm from 10 x 90m circumference cages to 8 x 120m cages. The equipment would extend further north than the existing farm. Maximum biomass would increase from 1700T to 2100T and a CAR licence variation has already been granted by SEPA for this change.

A previous planning application was submitted for substantially the same development in December 2017 (17/05689/FUL). We had detailed discussions with Highland Council and the applicant regarding possible use of secondary anti-predator nets and Acoustic Deterrent Devices (ADDs). That application was withdrawn in February 2018. We welcome the current proposal to operate the farm without using those anti-predation methods.

Appraisal of the impacts of the proposal and advice

- Ascrib, Isay and Dunvegan Special Area of Conservation (SAC)

The proposal lies close to and could affect Ascrib, Isay and Dunvegan SAC which is designated for its common seal population. The site's status means that the

Scottish Natural Heritage, King's House, The Green, Portree, Isle of Skye, IV51 9BS
Tel: 01463 701663 www.nature.scot

Dualchas Nàdair na h-Alba, Taigh an Rìgh, An Àilean, Port Rìgh, An t-Eilean Sgitheanach, IV51 9BS. Fòn: 01463 701663 www.nature.scot

requirements of the Conservation (Natural Habitats, &c.) Regulations 1994 as amended (the “Habitats Regulations”) or, for reserved matters the Conservation of Habitats and Species Regulations 2017 apply. Consequently, The Highland Council is required to consider the effect of the proposal on the SAC before it can be consented (commonly known as Habitats Regulations Appraisal). The SNH website has a summary of the legislative requirements:

(<https://www.snh.scot/professional-advice/safeguarding-protected-areas-and-species/protected-species/legal-framework/habitats-directive-and-habitats-regulations>).

In our view, it is **unlikely that the proposal will have a significant effect on common seals within Ascribs, Isay and Dunvegan SAC**, either directly or indirectly. An appropriate assessment is therefore not required. We have reached this judgement because:

- The applicant proposes to use high break-strength mono nylon cage nets, tensioned using sinker tubes and slider weights; double netting at the bottom of the cages; an uplift system for the removal of morts. They state that this equipment has been successfully used in Shetland with no predation by seals, no need for ADDs and no seals shot.
- The applicant states that they have ‘no plans to use separate anti-predator nets’.
- They have committed not to use ADDs.

Therefore the risk of seal mortality or disturbance arising from this development is low. However, you may wish to consider whether it is necessary to condition the anti-predator measures in order to maintain this situation in the future.

Inner Hebrides and the Minches Special Area of Conservation (SAC)

The proposal lies within Inner Hebrides and the Minches SAC designated for its harbour porpoise. The legislative requirements for this site are as detailed above.

In our view, it is **unlikely that the proposal will have a significant effect on harbour porpoise within Inner Hebrides and the Minches SAC**, either directly or indirectly. An appropriate assessment is therefore not required. We have reached this judgement because:

- The applicant proposes to use high break-strength mono nylon cage nets;
- They have committed not to use ADDs which may disturb the porpoise.

Therefore the risk of disturbance arising from this development is low. However, you may wish to consider whether it is necessary to condition the use of ADDs in case they are proposed in the future.

3. Landscape & visual

Leinish fish farm lies within the North-West Skye Special Landscape Area (SLA) which is a regional landscape designation.

A Landscape and Visual Impact Assessment was carried out by a chartered landscape architect in April 2017. We recommended the assessment should focus on visual impacts but the report offers little detail on this topic. However the visualisations are of good quality and allow us to make our own assessment of the proposals.

Due to the intricate coastline of Loch Dunvegan and the back-clothing when viewed from the opposite shore, the existing site is not particularly prominent except from close by (Husabost, Totaig and road near Skye Silver).

The photomontages demonstrate that the proposed changes (in particular moving the farm north) will result in a minor to moderate increase in the visibility and prominence of the fish farm from viewpoints on the west side of the loch.

However, the farm remains well aligned with the adjacent coast and remains subordinate in scale to the open water of the loch (including in views from the east side of the loch where multiple fish farms are visible). The decision to keep the feed barge at the south end of the farm reinforces the visual linkage with Leinish Bay. It also increases the chances of the barge being back-clothed by the dark coloured woodland in views from the opposite shore of Loch Dunvegan.

Overall, we advise that, when compared with the existing farm, the proposed changes are unlikely to have more than local impacts and will not have a significant effect on the Special Qualities of the SLA.

4. Benthic habitats

Benthic visual surveys were carried out September 2017. Two ROV transects were run, starting at the edge of the existing cages and travel N and E. The footage is good quality, allowing assessment of the biotopes present across the expanded depositional footprint.

The footage shows fairly uniform burrowed mud habitats throughout the survey area. The species present are typical of this habitat and none of the rarer biotopes, and few of the rarer macro-faunal species, were recorded. Grab sample data is available from monitoring the existing fish farm site and is consistent with this assessment. We advise that these proposals do not raise any issues of national interest regarding PMF habitats or species.

Please let me know if you would like clarification or any further advice regarding this case.

Yours sincerely,

Alex Turner
Area Officer, Skye and Lochalsh
alex.turner@snh.gov.uk

Region	Company	ADD
Shetland	Cooke	Don't use
Shetland	Hjatland	Don't use
South West	Hjatland	Don't use
Outer Hebrides	Scottish Salmon Co	Ace aquatec US3
South West	Scottish Salmon Co	Ace aquatec US3
West Scotland	Scottish Salmon Co	Airmar, OTAQ Sealfance, Ace aquatec US3
South West	Scottish Salmon Co	Airmar, Ace aquatec
South West	Marine Harvest	Mon aqua, Terecos
Outer Hebrides	Marine Harvest	Don't use
West Scotland	Marine Harvest	Terecos, Airmar, Mohn aqua
Orkney and the North Coast	Scottish Sea Farms	Airmar, Ace aquatec
Shetland	Scottish Sea Farms	Mohn AquaMAG, Ace aquatec US3
West Scotland	Scottish Sea Farms	Mohn aqua, Airmar
West Scotland	Loch Duart	Airmar, Mohnaqua, Ace aquatec
Shetland	Balta	Ace aquatec, Lofitech
South West	Dawnfresh	Mon Aqua

LicenceName	LicencePer	LicenceType	ManagementArea	LicensedCompany	CreationDate	Application	Applicator	Submitter	SiteType	FishFarmName	Registratio	SiteOwner	SiteStatus	WillBeStoc	ExistingLicr	ProductionCycle
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Bay of Cleat North	FS1080	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	15/03/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Bay of Cleat North	FS1080	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	15/03/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Bay of Ham	FS0122	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	04/03/2014
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Bay of Ham	FS0122	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	04/03/2014
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Bay of Vady	FS1020	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	31/01/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Bay of Vady	FS1020	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	31/01/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Carness Bay	FS0390	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	03/04/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Carness Bay	FS0390	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	03/04/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Chalmers Hope	FS0993	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	27/04/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Chalmers Hope	FS0993	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	27/04/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Kirknoust	FS0645	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	25/02/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Kirknoust	FS0645	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	25/02/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Lyrawa Bay	FS0054	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	31/10/2014
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Lyrawa Bay	FS0054	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	31/10/2014
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Meil Bay	FS0597	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	28/01/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Meil Bay	FS0597	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	28/01/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Ouseness	FS1209	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	27/11/2014
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Ouseness	FS1209	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	27/11/2014
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Pegal Bay	FS0031	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	26/10/2014
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Pegal Bay	FS0031	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	26/10/2014
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Quanterness	FS/0908	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	27/01/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Quanterness	FS/0908	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	27/01/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	South Cava	FS1198	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	28/08/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	South Cava	FS1198	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	28/08/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Vestness	FS/1210	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	06/03/2014
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	Vestness	FS/1210	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	06/03/2014
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	West Fara	FS/1017	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	27/04/2015
ONC10/2016/W	01/02/201	Health	Orkney & North Coast	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-10-0	Farm	West Fara	FS/1017	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	27/04/2015
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Bastaness	FS1279	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	23/04/2015
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Bastaness	FS1279	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	23/04/2015
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Bastavoe South	FS0074	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	05/10/2013
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Bastavoe South	FS0074	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	05/10/2013
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Belmont	FS0472	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	02/06/2014
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Belmont	FS0472	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	02/06/2014
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Bow of Hascosay	FS0477	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	23/03/2014
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Bow of Hascosay	FS0477	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	23/03/2014
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Burkwell	FS0960	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	25/09/2014
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Burkwell	FS0960	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	25/09/2014
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Cloudin	FS0088	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	09/09/2015
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Cloudin	FS0088	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	09/09/2015
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Copister	FS1043	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	14/02/2015
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Copister	FS1043	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	14/02/2015
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Djubawick	FS0656	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	09/04/2015
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Djubawick	FS0656	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	09/04/2015
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Flaeshins	FS1275	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	14/04/2015
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Flaeshins	FS1275	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	14/04/2015
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Hogan	FS1053	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	24/11/2014
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Hogan	FS1053	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	24/11/2014
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Mula	FS/0896	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	01/11/2013
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Mula	FS/0896	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	01/11/2013
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Stead of Aithness	FS0637	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	08/11/2014
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Stead of Aithness	FS0637	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	08/11/2014
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Turness	FS0451	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	20/10/2014
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Turness	FS0451	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	20/10/2014
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Uyeya Isle	FS0382	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	19/09/2015
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Uyeya Isle	FS0382	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	19/09/2015
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Vatsetter	FS/0407	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	10/04/2014
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Vatsetter	FS/0407	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	10/04/2014
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Vee Taing	FS/1057	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	01/09/2015
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Vee Taing	FS/1057	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	01/09/2015
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Winna Ness	FS0871	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	01/09/2015
S01/2016/W	01/02/201	Health	Shetland	Cooke Aquaculture Scotland	06/10/2015	01/10/201	Granted	2015-11-1	Farm	Winna Ness	FS0871	Cooke Aquaculture Scotland	Existing	TRUE	TRUE	01/09/2015
S06/2016/W	01/02/201	Health	Shetland	Thompson Bros Salmon Ltd	07/10/2015	01/10/201	Granted	2015-10-0	Farm	Sandwick	FS0710	Thompson Bros Salmon Ltd	Existing	TRUE	TRUE	01/03/2014
S06/2016/W	01/02/201	Health	Shetland	Thompson Bros Salmon Ltd	07/10/2015	01/10/201	Granted	2015-10-0	Farm	Sandwick	FS0710	Thompson Bros Salmon Ltd	Existing	TRUE	TRUE	01/03/2014
S06/2016/W	01/02/201	Health	Shetland	Thompson Bros Salmon Ltd	07/10/2015	01/10/201	Granted	2015-10-0	Farm	Kirkbaster	FS0802	Thompson Bros Salmon Ltd	Existing	TRUE	TRUE	01/03/2015
S06/2016/W	01/02/201	Health	Shetland	Thompson Bros Salmon Ltd	07/10/2015	01/10/201	Granted	2015-10-0	Farm	Kirkbaster	FS0802	Thompson Bros Salmon Ltd	Existing	TRUE	TRUE	01/03/2015
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2	Farm	South Sound	FS0183	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	24/10/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2	Farm	South Sound	FS0183	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	24/10/2014

S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Vidlin North	F50608	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	10/03/2015
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Vidlin North	F50608	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	10/03/2015
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Loura Voe	F50699	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	30/08/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Loura Voe	F50699	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	30/08/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Holms Geo	F50749	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	11/03/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Holms Geo	F50749	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	11/03/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Lippie Geo	F50850	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	04/04/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Lippie Geo	F50850	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	04/04/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Slocka Ronas Voe	F51018	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	11/04/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Slocka Ronas Voe	F51018	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	11/04/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Teisti Geo	F51093	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	15/03/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Teisti Geo	F51093	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	15/03/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Bight of Bellister, Dury Voe	F51121	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	02/10/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Bight of Bellister, Dury Voe	F51121	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	02/10/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Dury Voe	F50033	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	12/09/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Dury Voe	F50033	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	12/09/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Foreholm	F50936	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	30/03/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Foreholm	F50936	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	30/03/2014
S08/2016/W	01/02/201	Health	Shetland	Scottish Sea Farms Ltd	07/10/2015	01/10/201	Granted	2015-10-2: Farm	Snarraness	F50400	Scottish Sea Farms Ltd	Existing	TRUE	FALSE	17/03/2016
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Bight of Foraness	F50292	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	06/04/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Bight of Foraness	F50292	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	06/04/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Bomlo	F51076	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	19/02/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Bomlo	F51076	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	19/02/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Cole Deep	F50489	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	17/08/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Cole Deep	F50489	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	17/08/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	East of Papa Little	F51278	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	17/08/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	East of Papa Little	F51278	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	17/08/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	East Vope Laxfirth	F50333	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	13/08/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	East Vope Laxfirth	F50333	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	13/08/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Gietness	F51099	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	11/08/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Gietness	F51099	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	11/08/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Goe of Valladale	F51115	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	12/10/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Goe of Valladale	F51115	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	12/10/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Hamar Sound	F51114	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	12/10/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Hamar Sound	F51114	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	12/10/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Langa Isle (East)	F50433	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	03/04/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Langa Isle (East)	F50433	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	03/04/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Linga	F51027	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	03/04/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Linga	F51027	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	03/04/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	North Havra	F50674	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	28/03/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	North Havra	F50674	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	28/03/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	North Papa	F50515	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	10/03/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	North Papa	F50515	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	10/03/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	North Voe	F50946	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	23/08/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	North Voe	F50946	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	23/08/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Olna South	F50764	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	05/10/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Olna South	F50764	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	05/10/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Papa	F50447	Hjaltland Seafarms Ltd	Existing	FALSE	FALSE	
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Papa	F50447	Hjaltland Seafarms Ltd	Existing	FALSE	FALSE	
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Poseidon	F50408	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	25/06/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Poseidon	F50408	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	25/06/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Score Holm	F50948	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	16/04/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Score Holm	F50948	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	16/04/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Setter Voe	F50316	Hjaltland Seafarms Ltd	Existing	TRUE	FALSE	25/04/2012
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Spooose Holm	F50785	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	03/04/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Spooose Holm	F50785	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	03/04/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Swinning Voe 3	F50903	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	01/03/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Swinning Voe 3	F50903	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	01/03/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Taing of Railbrough Catfirth	F50501	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	12/10/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Taing of Railbrough Catfirth	F50501	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	12/10/2015
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	West of Burwick	F50937	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	29/03/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	West of Burwick	F50937	Hjaltland Seafarms Ltd	Existing	TRUE	TRUE	29/03/2014
S07/2016/W	01/02/201	Health	Shetland	Hjaltland Seafarms Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Hammavoe	F51144	Hjaltland Seafarms Ltd	Existing	TRUE	FALSE	02/07/2015
WS06/2016/W	01/02/201	Health	South West Scotland	Marine Harvest (Scotland) Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Ardmaddy	F50464	Marine Harvest (Scotland) Ltd	Existing	FALSE	FALSE	
WS06/2016/W	01/02/201	Health	South West Scotland	Marine Harvest (Scotland) Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Ardmaddy	F50464	Marine Harvest (Scotland) Ltd	Existing	FALSE	FALSE	
WS06/2016/W	01/02/201	Health	South West Scotland	Marine Harvest (Scotland) Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Bagh Dail Nan Ceann	F50805	Marine Harvest (Scotland) Ltd	New	TRUE	TRUE	08/11/2015
WS06/2016/W	01/02/201	Health	South West Scotland	Marine Harvest (Scotland) Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Bagh Dail Nan Ceann	F50805	Marine Harvest (Scotland) Ltd	New	TRUE	TRUE	08/11/2015
WS06/2016/W	01/02/201	Health	South West Scotland	Marine Harvest (Scotland) Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Polle Na Gille	F50629	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	08/10/2014
WS06/2016/W	01/02/201	Health	South West Scotland	Marine Harvest (Scotland) Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Polle Na Gille	F50629	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	08/10/2014

WS06/2016/W	01/02/201	Health	South West Scotland	Marine Harvest (Scotland) Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Port Na Cro	F50859	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	08/10/2014
WS06/2016/W	01/02/201	Health	South West Scotland	Marine Harvest (Scotland) Ltd	08/10/2015	01/10/201	Granted	2015-10-2: Farm	Port Na Cro	F50859	Marine Harvest (Scotland) Ltd	Existing	TRUE	TRUE	08/10/2014
WS12/2016/W	01/02/201	Health	South West Scotland	Kames Fish Farming Ltd	08/10/2015	01/10/201	Granted	2015-10-1: Farm	Kames Bay (west)	F50271	Kames Fish Farming Ltd	Existing	TRUE	TRUE	21/09/2014
WS12/2016/W	01/02/201	Health	South West Scotland	Kames Fish Farming Ltd	08/10/2015	01/10/201	Granted	2015-10-1: Farm	Kames Bay (west)	F50271	Kames Fish Farming Ltd	Existing	TRUE	TRUE	21/09/2014
WS12/2016/W	01/02/201	Health	South West Scotland	Kames Fish Farming Ltd	08/10/2015	01/10/201	Granted	2015-10-1: Farm	Kames Bay (east)	F50462	Kames Fish Farming Ltd	Existing	TRUE	TRUE	01/09/2013
WS12/2016/W	01/02/201	Health	South West Scotland	Kames Fish Farming Ltd	08/10/2015	01/10/201	Granted	2015-10-1: Farm	Kames Bay (east)	F50462	Kames Fish Farming Ltd	Existing	TRUE	TRUE	01/09/2013
WS12/2016/W	01/02/201	Health	South West Scotland	Kames Fish Farming Ltd	08/10/2015	01/10/201	Granted	2015-10-1: Farm	Shuna Castle	F50465	Kames Fish Farming Ltd	Existing	TRUE	TRUE	01/10/2014
WS12/2016/W	01/02/201	Health	South West Scotland	Kames Fish Farming Ltd	08/10/2015	01/10/201	Granted	2015-10-1: Farm	Shuna Castle	F50465	Kames Fish Farming Ltd	Existing	TRUE	TRUE	01/10/2014
WS12/2016/W	01/02/201	Health	South West Scotland	Kames Fish Farming Ltd	08/10/2015	01/10/201	Granted	2015-10-1: Farm	Eilean Coltair	F50777	Kames Fish Farming Ltd	Existing	FALSE		
WS12/2016/W	01/02/201	Health	South West Scotland	Kames Fish Farming Ltd	08/10/2015	01/10/201	Granted	2015-10-1: Farm	Eilean Coltair	F50777	Kames Fish Farming Ltd	Existing	FALSE		
WS12/2016/W	01/02/201	Health	South West Scotland	Kames Fish Farming Ltd	08/10/2015	01/10/201	Granted	2015-10-1: Farm	Shuna SW (Rubhan Trilleachain)	F51290	Kames Fish Farming Ltd	Existing	TRUE	TRUE	22/06/2015
WS12/2016/W	01/02/201	Health	South West Scotland	Kames Fish Farming Ltd	08/10/2015	01/10/201	Granted	2015-10-1: Farm	Shuna SW (Rubhan Trilleachain)	F51290	Kames Fish Farming Ltd	Existing	TRUE	TRUE	22/06/2015
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Ardcastle	F50818	The Scottish Salmon Company	Existing	TRUE	TRUE	01/11/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Ardcastle	F50818	The Scottish Salmon Company	Existing	TRUE	TRUE	01/11/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Ardgadden	F50851	The Scottish Salmon Company	Existing	TRUE	TRUE	01/10/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Ardgadden	F50851	The Scottish Salmon Company	Existing	TRUE	TRUE	01/10/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Ardyne	F50559	The Scottish Salmon Company	Existing	TRUE	TRUE	01/03/2015
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Ardyne	F50559	The Scottish Salmon Company	Existing	TRUE	TRUE	01/03/2015
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Furnace	F50567	The Scottish Salmon Company	Existing	TRUE	TRUE	01/04/2014
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Furnace	F50567	The Scottish Salmon Company	Existing	TRUE	TRUE	01/04/2014
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Glenan Bay	F50590	The Scottish Salmon Company	Existing	TRUE	TRUE	01/11/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Glenan Bay	F50590	The Scottish Salmon Company	Existing	TRUE	TRUE	01/11/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Gob a Bharra	F50683	The Scottish Salmon Company	Existing	TRUE	TRUE	01/10/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Gob a Bharra	F50683	The Scottish Salmon Company	Existing	TRUE	TRUE	01/10/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Lamlash Bay	F50423	The Scottish Salmon Company	Existing	TRUE	TRUE	01/05/2014
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Lamlash Bay	F50423	The Scottish Salmon Company	Existing	TRUE	TRUE	01/05/2014
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Mealh Mhor	F50091	The Scottish Salmon Company	Existing	TRUE	TRUE	01/12/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Mealh Mhor	F50091	The Scottish Salmon Company	Existing	TRUE	TRUE	01/12/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Quarry Point	F50698	The Scottish Salmon Company	Existing	TRUE	TRUE	02/11/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Quarry Point	F50698	The Scottish Salmon Company	Existing	TRUE	TRUE	02/11/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Rubha Stailaig	F50894	The Scottish Salmon Company	Existing	TRUE	TRUE	01/11/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Rubha Stailaig	F50894	The Scottish Salmon Company	Existing	TRUE	TRUE	01/11/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Sgian Dubh	F51281	The Scottish Salmon Company	Existing	TRUE	TRUE	01/05/2015
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Sgian Dubh	F51281	The Scottish Salmon Company	Existing	TRUE	TRUE	01/05/2015
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Strondoir Bay	F51019	The Scottish Salmon Company	Existing	TRUE	TRUE	01/10/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Strondoir Bay	F51019	The Scottish Salmon Company	Existing	TRUE	TRUE	01/10/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Strone	F51056	The Scottish Salmon Company	Existing	TRUE	TRUE	01/04/2015
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Strone	F51056	The Scottish Salmon Company	Existing	TRUE	TRUE	01/04/2015
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Tarbert South	F50767	The Scottish Salmon Company	Existing	TRUE	TRUE	01/10/2013
SW08/2016/W	01/02/201	Health	Western Isles	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Tarbert South	F50767	The Scottish Salmon Company	Existing	TRUE	TRUE	01/10/2013
WS07/2016/W	01/02/201	Health	South West Scotland	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	Druimyeon Bay	F50336	The Scottish Salmon Company	Existing	TRUE	TRUE	01/11/2014
WS07/2016/W	01/02/201	Health	South West Scotland	The Scottish Salmon Company	09/10/2015	01/10/201	Granted	2015-10-2: Farm	East Tarbert Bay	F51010	The Scottish Salmon Company	Existing	TRUE	TRUE	01/04/2015
WS23/2016/W	01/02/201	Health	South West Scotland	Hjaltdland Seafoods Ltd	12/10/2015	01/10/201	Granted	2015-10-2: Farm	Corlarach	F51287	Hjaltdland Seafoods Ltd	Existing	TRUE	TRUE	29/09/2015
WS23/2016/W	01/02/201	Health	South West Scotland	Hjaltdland Seafoods Ltd	12/10/2015	01/10/201	Granted	2015-10-2: Farm	Corlarach	F51287	Hjaltdland Seafoods Ltd	Existing	TRUE	TRUE	29/09/2015
WS23/2016/W	01/02/201	Health	South West Scotland	Hjaltdland Seafoods Ltd	12/10/2015	01/10/201	Granted	2015-10-2: Farm	Gob na Hoe	F51175	Hjaltdland Seafoods Ltd	Existing	TRUE	TRUE	01/10/2013
WS23/2016/W	01/02/201	Health	South West Scotland	Hjaltdland Seafoods Ltd	12/10/2015	01/10/201	Granted	2015-10-2: Farm	Gob na Hoe	F51175	Hjaltdland Seafoods Ltd	Existing	TRUE	TRUE	01/10/2013
WS23/2016/W	01/02/201	Health	South West Scotland	Hjaltdland Seafoods Ltd	12/10/2015	01/10/201	Granted	2015-10-2: Farm	Leinish	F50800	Hjaltdland Seafoods Ltd	Existing	TRUE	TRUE	27/09/2013
WS23/2016/W	01/02/201	Health	South West Scotland	Hjaltdland Seafoods Ltd	12/10/2015	01/10/201	Granted	2015-10-2: Farm	Leinish	F50800	Hjaltdland Seafoods Ltd	Existing	TRUE	TRUE	27/09/2013
WI03/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Plocrapol	F51256	The Scottish Salmon Company	Existing	TRUE	TRUE	01/11/2013
WI03/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Plocrapol	F51256	The Scottish Salmon Company	Existing	TRUE	TRUE	01/11/2013
WI03/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Reibinish	F51277	The Scottish Salmon Company	Existing	TRUE	TRUE	30/09/2015
WI03/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Reibinish	F51277	The Scottish Salmon Company	Existing	TRUE	TRUE	30/09/2015
WI03/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Scadabay	F51293	The Scottish Salmon Company	Existing	TRUE	TRUE	30/09/2015
WI03/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Scadabay	F51293	The Scottish Salmon Company	Existing	TRUE	TRUE	30/09/2015
WI03/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Stockinish	F50190	The Scottish Salmon Company	Existing	FALSE		
WI03/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Stockinish	F50190	The Scottish Salmon Company	Existing	FALSE		
WI04/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Baigh Chlann Neill (Grimsay)	F50051	The Scottish Salmon Company	Existing	TRUE	TRUE	01/02/2014
WI04/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Baigh Chlann Neill (Grimsay)	F50051	The Scottish Salmon Company	Existing	TRUE	TRUE	01/02/2014
WI04/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Greanamul	F51282	The Scottish Salmon Company	Existing	TRUE	TRUE	01/05/2014
WI04/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Greanamul	F51282	The Scottish Salmon Company	Existing	TRUE	TRUE	01/05/2014
WI04/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Outer Eport	F51254	The Scottish Salmon Company	Existing	TRUE	TRUE	01/11/2014
WI04/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Outer Eport	F51254	The Scottish Salmon Company	Existing	TRUE	TRUE	01/11/2014
WI04/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Petersport	F50340	The Scottish Salmon Company	Existing	TRUE	TRUE	01/04/2014
WI04/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Petersport	F50340	The Scottish Salmon Company	Existing	TRUE	TRUE	01/04/2014
WI04/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Trenay	F50796	The Scottish Salmon Company	Existing	TRUE	TRUE	01/07/2015
WI04/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Trenay	F50796	The Scottish Salmon Company	Existing	TRUE	TRUE	01/07/2015
WI04/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Uishevagh	F51255	The Scottish Salmon Company	Existing	TRUE	TRUE	01/05/2014
WI04/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Uishevagh	F51255	The Scottish Salmon Company	Existing	TRUE	TRUE	01/05/2014
WI04/2016/W	01/02/201	Health	West Scotland	The Scottish Salmon Company	14/10/2015	01/10/201	Granted	2015-10-2: Farm	Maragay Mor	F51304	The Scottish Salmon Company	New	TRUE		01/10/2016

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WS11/2016/W	01/02/201	Health	Orkney & North Coast	Scottish Sea Farms Orkney and Eribol	26/10/2015	01/10/201	Granted	2015-10-21	Farm	Bring Head	FS1023	Scottish Sea Farms Orkney and Er	Existing	TRUE	TRUE	29/09/2014
ONC11/2016/W	01/02/201	Health	Orkney & North Coast	Scottish Sea Farms Orkney and Eribol	26/10/2015	01/10/201	Granted	2015-10-21	Farm	Toyness	FS1024	Scottish Sea Farms Orkney and Er	Existing	TRUE	TRUE	20/04/2014
ONC11/2016/W	01/02/201	Health	Orkney & North Coast	Scottish Sea Farms Orkney and Eribol	26/10/2015	01/10/201	Granted	2015-10-21	Farm	Toyness	FS1024	Scottish Sea Farms Orkney and Er	Existing	TRUE	TRUE	20/04/2014
ONC11/2016/W	01/02/201	Health	Orkney & North Coast	Scottish Sea Farms Orkney and Eribol	26/10/2015	01/10/201	Granted	2015-10-21	Farm	Wyre	FS1294	Scottish Sea Farms Orkney and Er	Existing	TRUE	TRUE	10/09/2015
ONC11/2016/W	01/02/201	Health	Orkney & North Coast	Scottish Sea Farms Orkney and Eribol	26/10/2015	01/10/201	Granted	2015-10-21	Farm	Wyre	FS1294	Scottish Sea Farms Orkney and Er	Existing	TRUE	TRUE	10/09/2015
W111/2016/W	01/02/201	Health	West Scotland	Loch Duart Ltd	27/10/2015	01/10/201	Granted	2015-10-21	Farm	Lochmaddy	FS0853	Loch Duart Ltd	Existing	TRUE	TRUE	03/04/2014
W111/2016/W	01/02/201	Health	West Scotland	Loch Duart Ltd	27/10/2015	01/10/201	Granted	2015-10-21	Farm	Lochmaddy	FS0853	Loch Duart Ltd	Existing	TRUE	TRUE	03/04/2014
W111/2016/W	01/02/201	Health	West Scotland	Loch Duart Ltd	27/10/2015	01/10/201	Granted	2015-10-21	Farm	Sound of Harris	FS1260	Loch Duart Ltd	Existing	TRUE	TRUE	15/04/2015
W111/2016/W	01/02/201	Health	West Scotland	Loch Duart Ltd	27/10/2015	01/10/201	Granted	2015-10-21	Farm	Sound of Harris	FS1260	Loch Duart Ltd	Existing	TRUE	TRUE	15/04/2015
W111/2016/W	01/02/201	Health	West Scotland	Loch Duart Ltd	27/10/2015	01/10/201	Granted	2015-10-21	Farm	Loch Carnan	FS1280	Loch Duart Ltd	Existing	TRUE	TRUE	28/03/2013
W111/2016/W	01/02/201	Health	West Scotland	Loch Duart Ltd	27/10/2015	01/10/201	Granted	2015-10-21	Farm	Loch Carnan	FS1280	Loch Duart Ltd	Existing	TRUE	TRUE	28/03/2013
S05/2016/W	01/02/201	Health	Shetland	Balta Island Seafare Ltd	28/10/2015	01/10/201	Granted	2015-10-21	Farm	Swarta Skerry	FS0814	Balta Island Seafare Ltd	Existing	TRUE	TRUE	17/04/2015
S05/2016/W	01/02/201	Health	Shetland	Balta Island Seafare Ltd	28/10/2015	01/10/201	Granted	2015-10-21	Farm	Swarta Skerry	FS0814	Balta Island Seafare Ltd	Existing	TRUE	TRUE	17/04/2015
S05/2016/W	01/02/201	Health	Shetland	Balta Island Seafare Ltd	28/10/2015	01/10/201	Granted	2015-10-21	Farm	Baltasound Harbour	FS0449	Balta Island Seafare Ltd	Existing	TRUE	TRUE	12/05/2013
S05/2016/W	01/02/201	Health	Shetland	Balta Island Seafare Ltd	28/10/2015	01/10/201	Granted	2015-10-21	Farm	Baltasound Harbour	FS0449	Balta Island Seafare Ltd	Existing	TRUE	TRUE	12/05/2013
S05/2016/W	01/02/201	Health	Shetland	Balta Island Seafare Ltd	28/10/2015	01/10/201	Granted	2015-10-21	Farm	Balta Island	FS0717	Balta Island Seafare Ltd	Existing	TRUE	TRUE	15/10/2014
S05/2016/W	01/02/201	Health	Shetland	Balta Island Seafare Ltd	28/10/2015	01/10/201	Granted	2015-10-21	Farm	Balta Island	FS0717	Balta Island Seafare Ltd	Existing	TRUE	TRUE	15/10/2014
S05/2016/W	01/02/201	Health	Shetland	Balta Island Seafare Ltd	28/10/2015	01/10/201	Granted	2015-10-21	Farm	Baltasound Pier	FS1102	Balta Island Seafare Ltd	Existing	TRUE	TRUE	17/09/2014
S05/2016/W	01/02/201	Health	Shetland	Balta Island Seafare Ltd	28/10/2015	01/10/201	Granted	2015-10-21	Farm	Baltasound Pier	FS1102	Balta Island Seafare Ltd	Existing	TRUE	TRUE	17/09/2014
WS11/2016/W	01/02/201	Health	South West Scotland	Dawnfresh Farming Ltd	29/10/2015	01/10/201	Granted	2015-10-31	Farm	Inverawe (East) Etive 2	FS1067	Dawnfresh Farming Ltd	Existing	TRUE	TRUE	16/12/2014
WS11/2016/W	01/02/201	Health	South West Scotland	Dawnfresh Farming Ltd	29/10/2015	01/10/201	Granted	2015-10-31	Farm	Inverawe (East) Etive 2	FS1067	Dawnfresh Farming Ltd	Existing	TRUE	TRUE	16/12/2014
WS11/2016/W	01/02/201	Health	South West Scotland	Dawnfresh Farming Ltd	29/10/2015	01/10/201	Granted	2015-10-31	Farm	Etive 3 (Port na Mine)	FS1101	Dawnfresh Farming Ltd	Existing	TRUE	TRUE	30/04/2015
WS11/2016/W	01/02/201	Health	South West Scotland	Dawnfresh Farming Ltd	29/10/2015	01/10/201	Granted	2015-10-31	Farm	Etive 3 (Port na Mine)	FS1101	Dawnfresh Farming Ltd	Existing	TRUE	TRUE	30/04/2015
WS11/2016/W	01/02/201	Health	South West Scotland	Dawnfresh Farming Ltd	29/10/2015	01/10/201	Granted	2015-10-31	Farm	Etive 4	FS1112	Dawnfresh Farming Ltd	Existing	TRUE	TRUE	22/09/2015
WS11/2016/W	01/02/201	Health	South West Scotland	Dawnfresh Farming Ltd	29/10/2015	01/10/201	Granted	2015-10-31	Farm	Etive 4	FS1112	Dawnfresh Farming Ltd	Existing	TRUE	TRUE	22/09/2015
WS11/2016/W	01/02/201	Health	South West Scotland	Dawnfresh Farming Ltd	29/10/2015	01/10/201	Granted	2015-10-31	Farm	Ardochattan Bay	FS0197	Dawnfresh Farming Ltd	Existing	TRUE	TRUE	16/06/2015
WS11/2016/W	01/02/201	Health	South West Scotland	Dawnfresh Farming Ltd	29/10/2015	01/10/201	Granted	2015-10-31	Farm	Ardochattan Bay	FS0197	Dawnfresh Farming Ltd	Existing	TRUE	TRUE	16/06/2015
WS11/2016/W	01/02/201	Health	South West Scotland	Dawnfresh Farming Ltd	29/10/2015	01/10/201	Granted	2015-10-31	Farm	Etive 6	FS1288	Dawnfresh Farming Ltd	Existing	TRUE	TRUE	01/07/2015
WS11/2016/W	01/02/201	Health	South West Scotland	Dawnfresh Farming Ltd	29/10/2015	01/10/201	Granted	2015-10-31	Farm	Etive 6	FS1288	Dawnfresh Farming Ltd	Existing	TRUE	TRUE	01/07/2015
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Scallaste	FS0209	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	25/03/2015
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Loch Spelve (B)	FS0253	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	17/03/2014
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Dunstaffnage	FS0299	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	23/02/2014
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Loch Creran (B)	FS0426	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	01/11/2015
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Fishnish (A)	FS0427	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	29/03/2015
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Loch Ba	FS0429	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	01/09/2015
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Nevis A	FS0430	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	07/11/2014
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Nevis C (Ardintigh)	FS0546	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	18/11/2014
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Tanera	FS0549	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	03/09/2015
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Nevis B	FS0616	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	27/09/2014
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Loch Spelve (A)	FS0634	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	23/08/2013
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Kerrera B	FS0663	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	08/02/2014
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Fishnish (B)	FS0694	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	20/03/2015
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Shuna	FS0695	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	18/03/2014
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Kishorn A (South)	FS0709	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	19/08/2014
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Lismore North	FS0745	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	19/03/2014
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Kishorn B (North)	FS0804	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	19/08/2014
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Fada	FS0858	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	06/09/2015
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Walters (East Lismore)	FS0875	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	30/03/2014
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Lismore West	FS0914	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	25/03/2014
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Bloody Bay	FS0964	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	08/12/2014
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Loch Creran (D)	FS1047	Scottish Sea Farms Ltd	Existing	FALSE		
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Fiunary	FS0696	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	09/04/2015
WS13/2016/W	01/02/201	Health	West Scotland	Scottish Sea Farms Ltd	03/11/2015	01/10/201	Granted	2015-11-11	Farm	Kishorn West	FS1274	Scottish Sea Farms Ltd	Existing	TRUE	TRUE	13/05/2015

FishStocke	FishStocke	FishStocke	FishStocke	FishStocke	FishStocke	FishStocke	FishStocke	FishStocke	FishStocke	FishStocke	FishStocke	NumberOf	SquarePen	SquarePen	SquarePen	CircularPer	CircularPer	CircularPer	OtherPenU	OtherPenU	NetsTensic	SquarePen	SquareDov	SquareDov	SquareDov	CircularPer	CircularPer
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												12		FALSE				TRUE	120	12	FALSE		TRUE				Normal	80.00	
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TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	42		TRUE	15m X 15m	15		FALSE			FALSE		TRUE	16	20.00	20.00	20.00		
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	42		TRUE	15m x 15m	15		FALSE			FALSE		TRUE	16	20.00	20.00	20.00		
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	42		TRUE	15m x 15m	15		FALSE			FALSE		TRUE	16	20.00	20.00	20.00		
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	8		TRUE	15 x 15	15		FALSE			FALSE		TRUE	16	2.00	20.00	20.00		
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	8		TRUE	15 x 15	15		FALSE			FALSE		TRUE	16	2.00	20.00	20.00		
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	26		TRUE	12m x 24m	15m and 2		FALSE			FALSE		TRUE	16	20.00	40.00	30.00		
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	26		TRUE	12m x 24m	15m and 2		FALSE			FALSE		TRUE	16	20.00	40.00	30.00		
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	48		TRUE	15 x 15	15		FALSE			FALSE		TRUE	20	20.00	20.00	20.00		
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	48		TRUE	15 x 15	15		FALSE			FALSE		TRUE	20	20.00	20.00	20.00		
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12		FALSE				TRUE	20	15	FALSE		TRUE					Normal	40
FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12		FALSE				TRUE	20	15	FALSE		TRUE					Normal	40
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	60		TRUE	12.2 x 12.2	9m and 10		FALSE			FALSE		TRUE	8 and 16	4.00	6.00	5.00		
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	60		TRUE	12.2 x 12.2	9m and 10		FALSE			FALSE		TRUE	8 and 16	4.00	6.00	5.00		
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	68		TRUE	12.2 x 12.2	9		FALSE			FALSE		TRUE	8	4.00	6.00	5.00		
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	68		TRUE	12.2 x 12.2	9		FALSE			FALSE		TRUE	8	4.00	6.00	5.00		
FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12		TRUE	15 x 15	10		FALSE			FALSE		TRUE	16	4.00	6.00	5.00		
FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12		TRUE	15 x 15	10		FALSE			FALSE		TRUE	16	4.00	6.00	5.00		
												12		TRUE	15 x 15	10		FALSE			FALSE		TRUE	16	4.00	6.00	5.00		
												12		TRUE	15 x 15	10		FALSE			FALSE		TRUE	16	4.00	6.00	5.00		
												12		TRUE	15 x 15	10		FALSE			FALSE		TRUE	16	4.00	6.00	5.00		
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	6		TRUE	24 x 24	9		FALSE			FALSE		TRUE	28	50.00	50.00	50.00		
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	6		TRUE	24 x 24	9		FALSE			FALSE		TRUE	28	50.00	50.00	50.00		
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	10		FALSE				TRUE	80	10	FALSE		TRUE					Normal	2000
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	10		FALSE				TRUE	80	10	FALSE		TRUE					Normal	2000
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	10		FALSE				TRUE	80	10	FALSE		TRUE					Normal	4000.00
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	10		FALSE				TRUE	80	10	FALSE		TRUE					Normal	4000.00
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	12		FALSE				TRUE	100	10	FALSE		TRUE					Normal	5000.00
TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	12		FALSE				TRUE	100	10	FALSE		TRUE					Normal	5000.00
FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12		FALSE				TRUE	100	10	FALSE		TRUE					Normal	2500.00
FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12		FALSE				TRUE	100	10	FALSE		TRUE					Normal	2500.00
TRUE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10		FALSE				TRUE	80	10	FALSE		TRUE					Normal	2000

[illegible]

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				TRUE	Daily		FALSE		TRUE	Ad-Hoc		FALSE		FALSE		Ad-Hoc		TRUE		1 Terecos DS
60kg slider	FALSE			TRUE	Daily		FALSE		TRUE	Ad-Hoc		FALSE		FALSE		Ad-Hoc		TRUE		1 Terecos DS
60kg slider	FALSE			FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air Lift SystDaily		Ad-Hoc		FALSE	
				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air Lift SystDaily		Ad-Hoc		FALSE	
				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift up s Daily		Ad-Hoc		TRUE	8 Airmar
				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift up s Daily		Ad-Hoc		TRUE	8 Airmar
80kg slider	FALSE			FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift up s Daily		Monthly		TRUE	6 Terecos DS
80kg slider	FALSE			FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift up s Daily		Monthly		TRUE	6 Terecos DS
60 kg slidei	FALSE			FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift up s Daily		Ad-Hoc		TRUE	8 Terecos DS
60 kg slidei	FALSE			FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift up s Daily		Ad-Hoc		TRUE	8 Terecos DS
				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	dead basketDaily		Monthly		TRUE	2 Terecos DS
				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	dead basketDaily		Monthly		TRUE	2 Terecos DS
60kg slider	FALSE			FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift systDaily		Monthly		TRUE	12 Terecos DS
60kg slider	FALSE			FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift systDaily		Monthly		TRUE	12 Terecos DS
				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift up s Daily		Monthly		TRUE	1 Terecos DS
				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift up s Daily		Monthly		TRUE	1 Terecos DS
60kg slider	FALSE			FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift systDaily		Monthly		TRUE	1 Terecos DS
60kg slider	FALSE			FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift systDaily		Monthly		TRUE	1 Terecos DS
				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift systDaily		Monthly		TRUE	2 Terecos DS
				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift systDaily		Monthly		TRUE	2 Terecos DS
				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Dead basketDaily		Other	Environet s	TRUE	3 Terecos DS
				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Dead basketDaily		Other	Environet s	TRUE	3 Terecos DS
80kg slider				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air ift systeDaily		Monthly		FALSE	
80kg slider				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air ift systeDaily		Monthly		FALSE	
Slider weig				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift systDaily		Monthly		FALSE	
slider weig	FALSE			FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift systDaily		Monthly		TRUE	8 Terecos DS
slider weig	FALSE			FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift systDaily		Monthly		TRUE	8 Terecos DS
80 kg slidei	FALSE			FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift systDaily		Monthly		FALSE	
80 kg slidei	FALSE			FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift systDaily		Monthly		FALSE	
				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	air lift systDaily		Ad-Hoc		TRUE	12 Ace Aquat
				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	air lift systDaily		Ad-Hoc		TRUE	12 Ace Aquat
				FALSE			FALSE		TRUE	Ad-Hoc		FALSE		TRUE	Air lift systDaily		Monthly		FALSE	
				FALSE	Daily		TRUE	Ad-Hoc	FALSE	FALSE		FALSE		FALSE	FALSE	Daily		TRUE		18 Airmar Db
				FALSE	Daily		TRUE	Ad-Hoc	FALSE	FALSE		FALSE		FALSE	FALSE	Daily		TRUE		18 Airmar Db
				FALSE	Daily		TRUE	Ad-Hoc	FALSE	FALSE		FALSE		FALSE	FALSE	Daily		TRUE		14 Airmar Db
				FALSE	Daily		TRUE	Ad-Hoc	FALSE	FALSE		FALSE		FALSE	FALSE	Daily		TRUE		14 Airmar Db
				FALSE	Daily		TRUE	Ad-Hoc	FALSE	FALSE		FALSE		FALSE	FALSE	Daily		TRUE		14 Airmar Db
				FALSE	Daily		TRUE	Ad-Hoc	FALSE	FALSE		FALSE		FALSE	FALSE	Daily		TRUE		14 Airmar Db
				FALSE	Daily		FALSE	Ad-Hoc	FALSE	FALSE		FALSE		FALSE	FALSE	Daily		TRUE		18 Airmar Db
				FALSE	Daily		FALSE	Ad-Hoc	FALSE	FALSE		FALSE		FALSE	FALSE	Daily		TRUE		18 Airmar Db
	TRUE	40		FALSE			TRUE	Daily	FALSE			FALSE		FALSE		Daily		TRUE		10 Airmar Db
	TRUE	40		FALSE			TRUE	Daily	FALSE			FALSE		FALSE		Daily		TRUE		10 Airmar Db
				FALSE			FALSE		FALSE			FALSE		TRUE	Dead sock Other	Twice wee Other		Not checke	TRUE	14 Airmaar Dt
				FALSE			FALSE		FALSE			FALSE		TRUE	Dead sock Other	Twice wee Other		Not checke	TRUE	14 Airmaar Dt
				FALSE			FALSE		FALSE			FALSE		TRUE	Mort rings Other	Twice wee Other		Not checke	TRUE	12 Airmaar Dt
				FALSE			FALSE		FALSE			FALSE		TRUE	Mort rings Other	Twice wee Other		Not checke	TRUE	12 Airmaar Dt
				FALSE			TRUE	Other	Twice weel	FALSE		FALSE		FALSE		Other		Never chec	TRUE	8 Airmaar Dt
				FALSE			TRUE	Other	Twice weel	FALSE		FALSE		FALSE		Other		Never chec	TRUE	8 Airmaar Dt
				FALSE			TRUE	Other	Twice weel	FALSE		FALSE		FALSE		Other		Never chec	TRUE	8 Airmaar Dt
				FALSE			TRUE	Daily		FALSE	Other	14 days		FALSE		Other		14 days	TRUE	4 Airmar dB
				FALSE			TRUE	Daily		TRUE	Other	14 days		FALSE		Other		14 days	TRUE	4 Airmar dB
	TRUE	80		FALSE			TRUE	Daily		TRUE	Other	14 days		FALSE		Other		14 days	TRUE	10 Airmar dB
	TRUE	80		FALSE			TRUE	Daily		TRUE	Other	14 days		FALSE		Other		14 days	TRUE	10 Airmar dB
	TRUE	80		FALSE			FALSE		TRUE	Weekly				FALSE	Camera ch Daily		Weekly		TRUE	10 Airmar dbli
	TRUE	80		FALSE			FALSE		TRUE	Weekly				FALSE	Camera ch Daily		Weekly		TRUE	10 Airmar dbli
	TRUE	80		FALSE			FALSE		TRUE	Weekly				FALSE	Camera ch Daily		Weekly		FALSE	
	TRUE	80		FALSE			FALSE		TRUE	Weekly				FALSE	Camera ch Daily		Weekly		FALSE	
	TRUE	80		FALSE			FALSE		TRUE	Weekly				FALSE	Camera ch Daily		Weekly		TRUE	8 Ace Aquat
	TRUE	80		FALSE			FALSE		TRUE	Weekly				FALSE	Camera ch Daily		Weekly		TRUE	8 Ace Aquat
	TRUE	80		FALSE			FALSE		TRUE	Weekly				FALSE	Camera ch Daily		Weekly		FALSE	

	TRUE	80	FALSE	FALSE	TRUE	Weekly	FALSE	TRUE	Camera ch	Daily	Weekly	FALSE	
	TRUE	80	FALSE	FALSE	TRUE	Weekly	FALSE	TRUE	Camera ch	Daily	Weekly	FALSE	
	TRUE	80	FALSE	FALSE	TRUE	Weekly	FALSE	TRUE	Camera ch	Daily	Weekly	FALSE	
	TRUE	80	FALSE	TRUE	Daily	TRUE	Other	14 days	FALSE	FALSE	Other	14 days	FALSE
	TRUE	80	FALSE	TRUE	Daily	TRUE	Other	14 days	FALSE	FALSE	Other	14 days	FALSE
downline	TRUE	50	FALSE	TRUE	Daily	TRUE	Monthly	FALSE	FALSE	FALSE	Monthly	TRUE	16 Airmar
downline	TRUE	50	FALSE	TRUE	Daily	TRUE	Monthly	FALSE	FALSE	FALSE	Monthly	TRUE	16 Airmar
			FALSE	TRUE	Daily	TRUE	Monthly	FALSE	FALSE	FALSE	Monthly	TRUE	2 Mohnaqua
			FALSE	TRUE	Daily	TRUE	Monthly	FALSE	FALSE	FALSE	Monthly	TRUE	2 Mohnaqua
downline	TRUE	50	FALSE	TRUE	Daily	TRUE	Monthly	FALSE	FALSE	FALSE	Monthly	TRUE	18 Airmar
downline	TRUE	50	FALSE	TRUE	Daily	TRUE	Monthly	FALSE	FALSE	FALSE	Monthly	TRUE	18 Airmar
2kg/metre	FALSE		FALSE	TRUE	Weekly	TRUE	Other	As required	FALSE	FALSE	Other	Divers are i	1 ace aquate
2kg/metre	FALSE		FALSE	TRUE	Weekly	TRUE	Other	As required	FALSE	FALSE	Other	Divers are i	1 ace aquate
leadlines	FALSE		FALSE	TRUE	Weekly	TRUE	Other	if required	FALSE	FALSE	Ad-Hoc	FALSE	
leadlines	FALSE		FALSE	TRUE	Weekly	TRUE	Other	if required	FALSE	FALSE	Ad-Hoc	FALSE	
leadlines	TRUE	12	FALSE	TRUE	Weekly	TRUE	Other	if needed f	FALSE	FALSE	Ad-Hoc	TRUE	3 ace aquate
leadlines	TRUE	12	FALSE	TRUE	Weekly	TRUE	Other	if needed f	FALSE	FALSE	Ad-Hoc	TRUE	3 ace aquate
leadline	FALSE		TRUE	Ad-Hoc	TRUE	Ad-Hoc	FALSE	FALSE	FALSE	FALSE	Other	never	1 lofitech un
leadline	FALSE		TRUE	Ad-Hoc	TRUE	Ad-Hoc	FALSE	FALSE	FALSE	FALSE	Other	never	1 lofitech un
chain link	FALSE		FALSE	FALSE	FALSE	FALSE	TRUE	Other	minimum 2	FALSE	Other	every time	FALSE
chain link	FALSE		FALSE	FALSE	FALSE	FALSE	TRUE	Other	minimum 2	FALSE	Other	every time	FALSE
chain link	TRUE	270	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	Lift up	Other	every 2nd	Monthly
chain link	TRUE	270	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	Lift up	Other	every 2nd	Monthly
chain link	TRUE	270	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	Lift up	Other	every 2nd	Monthly
chain link	TRUE	270	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	Lift up	Other	every 2nd	Monthly
chain link	FALSE		FALSE	FALSE	TRUE	Other	2 x a week	FALSE	FALSE	FALSE	Other	2 x week ai	TRUE
chain link	FALSE		FALSE	FALSE	TRUE	Other	2 x a week	FALSE	FALSE	FALSE	Other	2 x week ai	TRUE
chain link	TRUE	270	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	Lift up	Other	every 2nd	Monthly
chain link	TRUE	270	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	Lift up	Other	every 2nd	Monthly
chain link v	TRUE	75	FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	6 Mohn Aqu
chain link v	TRUE	50	FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	8 Mohn Aqu
chain link v	TRUE	36	FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	9 Mohn Aqu
chain link v	TRUE	50	FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	14 Mohn Aqu
			FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	8 Mohn Aqu
			FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	FALSE	
chain link v	TRUE	50	FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	12 Mohn Aqu
chain link v	TRUE	50	FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	9 Mohn Aqu
chain link v	TRUE	50	FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	24 Mohn Aqu
chain link v	TRUE	50	FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	12 Mohn Aqu
			FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	10 Mohn Aqu
chain link v	TRUE	50	FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	13 Mohn Aqu
			FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	6 Airmar DB
chain link v	TRUE	40	FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	FALSE	
chain link v	TRUE	50	FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	12 Airmar DBI
chain link v	TRUE	40	FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	10 Mohn Aqu
chain link v	TRUE	50	FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	16 Mohn Aqu
			FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	12 Mohn Aqu
chain link v	TRUE	50	FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	9 Mohn Aqu
chain link v	TRUE	40	FALSE	TRUE	Monthly	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	10 Mohn Aqu
chain link v	TRUE	60	FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	FALSE	
			FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	8 Mohn Aqu
chain link v			FALSE	TRUE	Daily	FALSE	FALSE	FALSE	FALSE	FALSE	Monthly	TRUE	12 Mkohn Aqu

ADDRequ	ADDOutput	ADDOct	ADDNov	ADDDec	ADDJan	ADDFeb	ADDMar	ADDApr	ADDMay	ADDJun	ADDJul	ADDAug	ADDSep	ADDAway	ADDTrigge	ADDTrigge	ADDTrigge	ADDTrigge	ADDTrigge	ADDTrigge	ADDEffecti	ADDNotUsedReason	APNUsed	APNCurtain	APNEnclos	APNFalseB
																						Not permitted by accreditation sch	TRUE	FALSE	TRUE	FALSE
																						Not permitted by accreditation sch	TRUE	FALSE	TRUE	FALSE
																						Seal-scarers not allowed by SNH i	TRUE	FALSE	TRUE	FALSE
																						Seal-scarers not allowed by SNH i	TRUE	FALSE	TRUE	FALSE
																						Use not allowed by SNH due to ci	TRUE	FALSE	FALSE	TRUE
																						Use not allowed by SNH due to ci	TRUE	FALSE	FALSE	TRUE
																						Not required at present along wit	TRUE	FALSE	TRUE	FALSE
																						Not required at present along wit	TRUE	FALSE	TRUE	FALSE
																						Use not allowed by SNH due to ci	TRUE	FALSE	FALSE	TRUE
																						Use not allowed by SNH due to ci	TRUE	FALSE	FALSE	TRUE
																						Not allowed by SNH due to cetac	TRUE	FALSE	FALSE	TRUE
																						Not allowed by SNH due to cetac	TRUE	FALSE	FALSE	TRUE
																						Not allowed by SNH due to cetac	TRUE	FALSE	TRUE	FALSE
																						Not allowed by SNH due to cetac	TRUE	FALSE	TRUE	FALSE
																						Insufficient mortality to warrant i	TRUE	FALSE	TRUE	FALSE
																						Insufficient mortality to warrant i	TRUE	FALSE	TRUE	FALSE
																						Not allowed by Label Rouge and	TRUE	FALSE	TRUE	FALSE
																						Not allowed by Label Rouge and	TRUE	FALSE	TRUE	FALSE
																						Not allowed by SNH due to Cetac	TRUE	FALSE	TRUE	FALSE
																						Not allowed by SNH due to Cetac	TRUE	FALSE	TRUE	FALSE
																						Not allowed by SNH due to cetac	TRUE	FALSE	TRUE	FALSE
																						Not allowed by SNH due to cetac	TRUE	FALSE	TRUE	FALSE
																						Not allowed by SNH due to cetac	TRUE	FALSE	FALSE	TRUE
																						Not allowed by SNH due to cetac	TRUE	FALSE	FALSE	TRUE
																						Not allowed by accreditation sch	TRUE	FALSE	FALSE	TRUE
																						Not allowed by accreditation sch	TRUE	FALSE	FALSE	TRUE
																						Not allowed by SNH due to cetac	TRUE	FALSE	TRUE	FALSE
																						Not allowed by SNH due to cetac	TRUE	FALSE	TRUE	FALSE
																						Not required at present	FALSE			
																						Not required at present	FALSE			
																						Not required	FALSE			
																						Not required	FALSE			
																						Not required at present and not i	FALSE			
																						Not required at present and not i	FALSE			
																						Not required at present	FALSE			
																						Not required at present	FALSE			
																						Not allowed by accreditation sch	FALSE			
																						Not allowed by accreditation sch	FALSE			
																						Not cost effective at present.	FALSE			
																						Not cost effective at present.	FALSE			
																						Not required at present	FALSE			
																						Not required at present	FALSE			
																						Not required at present	FALSE			
																						Not required at present	FALSE			
																						Not required at present and not i	FALSE			
																						Not required at present and not i	FALSE			
																						Not required or cost effective wit	FALSE			
																						Not required or cost effective wit	FALSE			
																						Not allowed by accreditation sch	FALSE			
																						Not allowed by accreditation sch	FALSE			
																						Not required at present due to lo	FALSE			
																						Not required at present due to lo	FALSE			
																						Not allowed by accreditation sch	FALSE			
																						Not allowed by accreditation sch	FALSE			
																						Due to accreditation scheme	FALSE			
																						Due to accreditation scheme	FALSE			
																						Not required at present	FALSE			
																						Not required at present	FALSE			
																						Not allowed by accreditation sch	FALSE			
																						Not allowed by accreditation sch	FALSE			
																						Not allowed by accreditation sch	FALSE			
																						Not allowed by accreditation sch	FALSE			
																						Not required	TRUE	FALSE	TRUE	FALSE
																						Not required	TRUE	FALSE	TRUE	FALSE
																						Not required	TRUE	FALSE	TRUE	FALSE
																						Not required	TRUE	FALSE	TRUE	FALSE
10.00	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE							3	FALSE			
10.00	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE							3	FALSE			

10.00	198	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	3	FALSE			
10.00	198	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	3	FALSE			
10.00	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	TRUE	3	FALSE			
10.00	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	3	FALSE			
10.00	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	3	FALSE			
10.00	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	3	FALSE			
10.00	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	3	FALSE			
12.00	195 to 197	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	3	FALSE			
12.00	195 to 197	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	3	FALSE			
10.00	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	3	FALSE			
10.00	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	3	FALSE			
12.00	195 to 197	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	3	FALSE			
12.00	195 to 197	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	3	FALSE			
12.00	195 to 197	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	3	FALSE			
10.00	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	3	FALSE			
10.00	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	3	FALSE			
They will be installed at a later date																FALSE			
SAC for common seals, use of AD																FALSE			
SAC for common seals, use of AD																FALSE			
SAC for common seals, use of AD																FALSE			
SAC for common seals, use of AD																FALSE			
not required or effective																FALSE			
not required or effective																FALSE			
ineffective																FALSE			
ineffective																FALSE			
not required																TRUE	FALSE	TRUE	FALSE
not required																TRUE	FALSE	TRUE	FALSE
not required																TRUE	FALSE	TRUE	FALSE
not required																TRUE	FALSE	TRUE	FALSE
ineffective																FALSE			
ineffective																FALSE			
ineffective																FALSE			
ineffective																TRUE	FALSE	TRUE	FALSE
ineffective																TRUE	FALSE	TRUE	FALSE
SAC for common seals, use requi																FALSE			
SAC for common seals, use requi																FALSE			
ineffective																FALSE			
ineffective																TRUE	FALSE	TRUE	FALSE
ineffective																TRUE	FALSE	TRUE	FALSE
ineffective																TRUE	FALSE	TRUE	FALSE
ineffective																FALSE			
ineffective																FALSE			
ineffective																FALSE			
Requires permission from SNH																FALSE			
Requires permission from SNH																FALSE			
inefficient																TRUE	FALSE	TRUE	FALSE
inefficient																TRUE	FALSE	TRUE	FALSE
Site not stocked																FALSE			
ineffective																TRUE	FALSE	TRUE	FALSE
ineffective																TRUE	FALSE	TRUE	FALSE
SAC for common seals, requires t																FALSE			
SAC for common seals, requires t																FALSE			
not required																TRUE	FALSE	TRUE	FALSE
not required																TRUE	FALSE	TRUE	FALSE
ineffective																TRUE	FALSE	TRUE	FALSE
ineffective																TRUE	FALSE	TRUE	FALSE
ineffective and requires permissi																FALSE			
Site not yet in operation																FALSE			
Site not yet in operation																FALSE			
9.30	135-178	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	4	FALSE			
9.30	135-178	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	4	FALSE			

[illegible]

[illegible]

9.30	135-178	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	4	FALSE				
9.30	135-178	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	4	FALSE				
																						ADD's were used but were move	FALSE			
																						ADD's were used but were move	FALSE			
10.00	198	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				4	FALSE				
10.00	198	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				4	FALSE				
9.30	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				4	FALSE				
9.30	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				4	FALSE				
9.30	135-178	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				3	FALSE				
9.30	135-178	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				3	FALSE				
9.30	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	5	FALSE				
9.30	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	5	FALSE				
9.30	135-178	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				4	FALSE				
9.30	135-178	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				4	FALSE				
9.30	135-178	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				4	FALSE				
9.30	135-178	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				4	FALSE				
9.30	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				4	FALSE				
9.30	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				4	FALSE				
9.30	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				4	FALSE				
9.30	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				4	FALSE				
9.30	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				4	FALSE				
																						Available if required	FALSE			
																						Available if required	FALSE			
																						Stored at shore base ready for de	FALSE			
9.30	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				2	FALSE				
9.30	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				2	FALSE				
																						Not permitted	FALSE			
																						Not permitted	FALSE			
0.00	0	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				3	FALSE				
0.00	0	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				3	FALSE				
																						Condition of planning	FALSE			
60.00	180	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE				3	TRUE	FALSE	TRUE	FALSE	
60.00	180	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE				3	TRUE	FALSE	TRUE	FALSE	
60.00	180	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE				3	TRUE	FALSE	TRUE	FALSE	
60.00	180	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE				3	TRUE	FALSE	TRUE	FALSE	
6.00	180	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				3	TRUE	FALSE	TRUE	FALSE	
6.00	180	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				3	TRUE	FALSE	TRUE	FALSE	
60.00	180	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE				3	TRUE	FALSE	TRUE	FALSE	
60.00	180	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE				3	TRUE	FALSE	TRUE	FALSE	
60.00	180	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				3	TRUE	FALSE	TRUE	FALSE	
60.00	180	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				3	TRUE	FALSE	TRUE	FALSE	
60.00	180	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				3	TRUE	FALSE	TRUE	FALSE	
60.00	180	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				3	TRUE	TRUE	FALSE	FALSE	
60.00	180	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				3	TRUE	TRUE	FALSE	FALSE	
10.00	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE				3	TRUE	TRUE	FALSE	FALSE	
10.00	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE				3	TRUE	TRUE	FALSE	FALSE	
1.00	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				3	TRUE	TRUE	FALSE	FALSE	
1.00	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				3	TRUE	TRUE	FALSE	FALSE	
10.00	198	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				3	TRUE	TRUE	FALSE	FALSE	
10.00	198	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				3	TRUE	TRUE	FALSE	FALSE	
																						TRUE	TRUE	FALSE	FALSE	
																						TRUE	TRUE	FALSE	FALSE	
10.30	192	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE				2	FALSE				
10.30	192	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE				2	FALSE				
10.30	192	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE				2	FALSE				
10.30	192	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE				2	FALSE				
10.30	192	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE				2	FALSE				
10.30	192	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE				2	FALSE				
																						Not allowed by SNH/Planning	FALSE			
																						Not allowed by SNH/Planning	FALSE			
20.00	195	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				4	FALSE				
20.00	195	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE				4	FALSE				
																						Not allowed by SNH/planning	FALSE			

[illegible]

APN	Doubt	APNEffect	APNNotUs	SealBlindU	SealBlindE	SealBlindN	ElectricUse	ElectricEffe	ElectricNot	OtherNLM	OtherNLM	OtherNLM	DetailNew	MeasuresF	MeasuresR	SealPresen	SealPresen	SealPredat	SealEvents	SealEvents	SealEventC	SealEventC	FishCountI	FishCount#	FishCount#	FishCountI	FishCount#	FishCount#
FALSE	3		FALSE	Not effect	FALSE	Cost implic	FALSE	Cost implic	FALSE				FALSE	TRUE	TRUE	TRUE	TRUE	10	10	0	9	1	0	565	0	0	74	0
FALSE	3		FALSE	Not effect	FALSE	Cost implic	FALSE	Cost implic	FALSE				FALSE	TRUE	TRUE	TRUE	TRUE	10	10	0	9	1	0	565	0	0	74	0
FALSE	4		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE				TRUE	Seal-scarer	TRUE	FALSE	FALSE	5	5	0	5	0	0	0	0	0	8	0
FALSE	4		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	TRUE	Seal-scarer	TRUE	FALSE	FALSE	5	5	0	5	0	0	0	5	0	0	0	0	0	8	0
FALSE	4		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	TRUE	Use not all	TRUE	FALSE	FALSE	30	30	0	30	0	0	30	0	0	80	0	0	0	0	0
FALSE	4		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	TRUE	Use not all	TRUE	FALSE	FALSE	30	30	0	30	0	0	30	0	0	80	0	0	0	0	0
FALSE	4		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	50	50	0	45	5	0	276	5	0	276	0	0	966	0	
FALSE	4		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	50	50	0	45	5	0	276	5	0	276	0	0	966	0	
FALSE	4		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	TRUE	Use not all	TRUE	FALSE	FALSE	3	3	0	3	0	0	0	3	0	0	0	0	0	0	0
FALSE	4		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	TRUE	Use not all	TRUE	FALSE	FALSE	3	3	0	3	0	0	0	3	0	0	0	0	0	0	0
FALSE	4		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	TRUE	ADDs Not i	TRUE	FALSE	FALSE	15	15	0	15	0	0	0	15	0	0	0	0	0	0	0
FALSE	4		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	TRUE	ADDs Not i	TRUE	FALSE	FALSE	15	15	0	15	0	0	0	15	0	0	0	0	0	0	0
FALSE	4		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	TRUE	ADDs Not i	TRUE	TRUE	TRUE	5	5	0	4	1	0	0	4	1	0	0	0	0	0	0
FALSE	4		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	TRUE	ADDs Not i	TRUE	TRUE	TRUE	5	5	0	4	1	0	0	4	1	0	0	0	0	0	0
FALSE	4		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	50	50	0	45	5	0	256	5	0	256	0	0	237	0	
FALSE	4		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	50	50	0	45	5	0	256	5	0	256	0	0	237	0	0
FALSE	4		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	30	30	0	15	15	0	0	15	15	0	0	0	0	0	0
FALSE	4		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	30	30	0	15	15	0	0	15	15	0	0	0	0	0	0
FALSE	4		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	TRUE	ADDs Not i	TRUE	TRUE	TRUE	10	10	0	8	2	0	0	8	2	0	0	0	0	0	0
FALSE	4		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	TRUE	ADDs Not i	TRUE	TRUE	TRUE	10	10	0	8	2	0	0	8	2	0	0	0	0	0	0
FALSE	4		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	TRUE	ADDs Not i	TRUE	TRUE	TRUE	10	10	0	8	2	0	0	8	2	0	0	0	0	0	0
FALSE	4		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	TRUE	ADDs Not i	TRUE	TRUE	TRUE	10	10	0	8	2	0	0	8	2	0	0	0	0	0	0
FALSE	4		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	TRUE	Adds SNH i	TRUE	TRUE	TRUE	30	30	0	25	5	0	124	5	0	124	0	0	0	0	0
FALSE	4		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	30	30	0	25	5	0	25	5	0	124	0	0	0	0	0
FALSE	4		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	30	30	0	25	5	0	25	5	0	124	0	0	0	0	0
FALSE	3		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	TRUE	ADDs Not i	TRUE	TRUE	TRUE	20	20	0	17	3	0	0	17	3	0	0	0	0	0	0
FALSE	3		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	TRUE	ADDs Not i	TRUE	TRUE	TRUE	20	20	0	17	3	0	0	17	3	0	0	0	0	0	0
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Cost and n	FALSE	Cost and n	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE											
	Not requir		FALSE	Not effect	FALSE	Costs and i	FALSE	Costs and i	FALSE																			

	Operation:	FALSE	Operation:	FALSE	Operation:	FALSE		FALSE	TRUE	TRUE	22	10	0	22	0	0	0	0	0	0	0	
	Operation:	FALSE	Operation:	FALSE	Operation:	FALSE		FALSE	TRUE	TRUE	22	10	0	22	0	0	0	0	0	0	0	
	Operation:	FALSE	Operation:	FALSE	Operation:	FALSE		FALSE	TRUE	TRUE	44	20	0	30	14	0	20	0	0	4	0	
	Operation:	FALSE	Operation:	FALSE	Operation:	FALSE		FALSE	TRUE	TRUE	44	20	0	30	14	0	20	0	0	4	0	
	operationa	FALSE	operationa	FALSE	operationa	FALSE		FALSE	TRUE	TRUE	23	10	0	20	3	0	1784	0	0	6	0	
	operationa	FALSE	operationa	FALSE	operationa	FALSE		FALSE	TRUE	TRUE	23	10	0	20	3	0	1784	0	0	6	0	
	Operation:	FALSE	Operation:	FALSE	Operation:	FALSE		FALSE	TRUE	TRUE	26	10	0	20	6	0	158	0	0	95	0	
	Operation:	FALSE	Operation:	FALSE	Operation:	FALSE		FALSE	TRUE	TRUE	26	10	0	20	6	0	158	0	0	95	0	
	Operation:	FALSE	Operation:	FALSE	Operation:	FALSE		FALSE	TRUE	TRUE	10	2	0	8	2	0	37	0	0	0	0	
	Operation:	FALSE	Operation:	FALSE	Operation:	FALSE		FALSE	TRUE	TRUE	10	2	0	8	2	0	37	0	0	0	0	
	Operation:	FALSE	Operation:	FALSE	Operation:	FALSE		FALSE	TRUE	TRUE	9	2	0	7	2	0	125	0	0	0	0	
	Operation:	FALSE	Operation:	FALSE	Operation:	FALSE		FALSE	TRUE	TRUE	9	2	0	7	2	0	125	0	0	0	0	
	Operation:	FALSE	Operation:	FALSE	Operation:	TRUE	Seal Pro ne	3	FALSE	TRUE	TRUE	41	10	0	30	11	0	0	0	193	0	
	Operation:	FALSE	Operation:	FALSE	Operation:	TRUE	Seal Pro ne	3	FALSE	TRUE	TRUE	41	10	0	30	11	0	0	0	193	0	
	Operation:	FALSE	Operation:	FALSE	Operation:	FALSE		FALSE	TRUE	TRUE	49	20	0	39	10	0	376	0	0	1151	0	
	Operation:	FALSE	Operation:	FALSE	Operation:	FALSE		FALSE	TRUE	TRUE	49	20	0	39	10	0	376	0	0	1151	0	
	Operation:	FALSE	Operation:	FALSE	Operation:	FALSE		FALSE	TRUE	TRUE												
	Operation:	FALSE	Operation:	FALSE	Operation:	FALSE		FALSE	TRUE	TRUE												
	currently n	TRUE	1	FALSE	still at dev	FALSE		TRUE	ADD as are	FALSE	TRUE	2	0	0	0	0	0	0	0	0	0	
	currently n	TRUE	1	FALSE	still at dev	FALSE		TRUE	ADD as are	FALSE	TRUE	2	0	0	0	0	0	0	0	0	0	
	Trialling ne	TRUE	1	FALSE	not require	TRUE	Terelyene i	3	TRUE	ADDs requ	TRUE	TRUE	3	0	0	0	0	0	0	0	0	
	Trialling ne	TRUE	1	FALSE	not require	TRUE	Terelyene i	3	TRUE	ADDs requ	TRUE	TRUE	3	0	0	0	0	0	0	0	0	
	trialling mc	TRUE	1	FALSE	not require	TRUE	monofilam	3	FALSE		TRUE	TRUE	2	0	0	0	0	0	0	0	0	
	trialling mc	TRUE	1	FALSE	not require	TRUE	monofilam	3	FALSE		TRUE	TRUE	2	0	0	0	0	0	0	0	0	
	trialling ne	TRUE	1	FALSE	not require	TRUE	nylon mon	3	FALSE		TRUE	TRUE	2	0	0	0	0	0	0	0	0	
	trialling ne	TRUE	1	FALSE	not require	TRUE	nylon mon	3	FALSE		TRUE	TRUE	2	0	0	0	0	0	0	0	0	
FALSE	5	TRUE	1	FALSE	not require	FALSE			FALSE		TRUE	TRUE										
FALSE	5	TRUE	1	FALSE	not require	FALSE			FALSE		TRUE	TRUE										
FALSE	5	TRUE	1	FALSE	not require	FALSE			FALSE		TRUE	TRUE										
FALSE	5	TRUE	1	FALSE	not require	FALSE			FALSE		TRUE	TRUE										
	trialling ne	TRUE	1	FALSE	still in dev	TRUE	high breaki	3	FALSE		TRUE	TRUE	5	0	0	0	0	0	0	0	0	
	trialling ne	TRUE	1	FALSE	still in dev	TRUE	high breaki	3	FALSE		TRUE	TRUE	5	0	0	0	0	0	0	0	0	
	trialling ne	TRUE	1	FALSE	still in dev	TRUE	high breaki	3	FALSE		TRUE	TRUE										
	trialling ne	TRUE	1	FALSE	still in dev	TRUE	high breaki	3	FALSE		TRUE	TRUE										
FALSE	4	TRUE	1	FALSE	not require	FALSE			FALSE		TRUE	TRUE										
FALSE	4	TRUE	1	FALSE	not require	FALSE			FALSE		TRUE	TRUE										
	trialling ne	TRUE	1	FALSE	still in dev	TRUE	terelyene r	3	TRUE	use of ADD	TRUE	TRUE										
	trialling ne	TRUE	1	FALSE	still in dev	TRUE	terelyene r	3	TRUE	use of ADD	TRUE	TRUE										
	will be fitte	TRUE	1	FALSE	still in dev	TRUE	HDPE netti	3	FALSE		TRUE	TRUE	1	0	0	0	0	0	937	0	0	
	will be fitte	TRUE	1	FALSE	still in dev	TRUE	HDPE netti	3	FALSE		TRUE	TRUE	1	0	0	0	0	0	937	0	0	
FALSE	4	TRUE	1	FALSE	not require	FALSE			FALSE		TRUE	TRUE	1	0	0	0	0	0	922	0	0	
FALSE	4	TRUE	1	FALSE	not require	FALSE			FALSE		TRUE	TRUE	1	0	0	0	0	0	922	0	0	
	v tidal site	TRUE	1	FALSE	still in dev	TRUE	high breaki	3	tension ne	FALSE	TRUE	TRUE	3	0	0	0	0	0	0	0	0	
	v tidal site	TRUE	1	FALSE	still in dev	TRUE	high breaki	3	tension ne	FALSE	TRUE	TRUE	3	0	0	0	0	0	0	0	0	
	trialling hig	TRUE	1	FALSE	still in dev	TRUE	high breaki	3		FALSE	TRUE	TRUE	2	0	0	0	0	0	0	0	0	
	trialling hig	TRUE	1	FALSE	still in dev	TRUE	high breaki	3		FALSE	TRUE	TRUE	2	0	0	0	0	0	0	0	0	
	trialling ne	TRUE	1	FALSE	still in dev	TRUE	terelyene r	3	TRUE	No ADDs a:	TRUE	TRUE										
FALSE	4	TRUE	1	FALSE	still in dev	TRUE	terelyene r	3	TRUE	No ADDs a:	TRUE	TRUE										
FALSE	4	TRUE	1	FALSE	still in dev	FALSE			FALSE		TRUE	TRUE	3	0	0	0	0	0	0	0	37	0
	Site not stc	FALSE		FALSE	Site not stc	FALSE			FALSE		TRUE	TRUE	3	0	0	0	0	0	0	0	37	0
FALSE	4	TRUE	1	FALSE	still in dev	FALSE			FALSE		TRUE	TRUE										
FALSE	4	TRUE	1	FALSE	still in dev	FALSE			FALSE		TRUE	TRUE										
	trialling ne	TRUE	1	FALSE	still in dev	TRUE	Terelyene i	3	TRUE	Cannot use	TRUE	TRUE	1	0	0	0	0	0	0	0	0	
	trialling ne	TRUE	1	FALSE	still in dev	TRUE	Terelyene i	3	TRUE	Cannot use	TRUE	TRUE	1	0	0	0	0	0	0	0	0	
FALSE	5	TRUE	1	FALSE	not require	FALSE			FALSE		TRUE	TRUE										
FALSE	5	TRUE	1	FALSE	not require	FALSE			FALSE		TRUE	TRUE										
FALSE	4	TRUE	1	FALSE	still in dev	FALSE			FALSE		TRUE	TRUE										
FALSE	4	TRUE	1	FALSE	still in dev	FALSE			FALSE		TRUE	TRUE										
	trialling no	TRUE	1	FALSE	still in dev	TRUE	Terelyene i	3	TRUE	Use of ADC	TRUE	TRUE										
	Bi Catch co	TRUE		FALSE	not compa	FALSE			FALSE													
	Bi Catch co	TRUE		FALSE	not compa	FALSE			FALSE													
	Bi Catch Cc	TRUE	4	FALSE	Company f	FALSE			FALSE		TRUE	TRUE	137	137	0	0	0	0	0	0	37	0
	Bi Catch Cc	TRUE	4	FALSE	Company f	FALSE			FALSE		TRUE	TRUE	137	137	0	0	0	0	0	0	37	0

[illegible]

		Bi Catch Cc	TRUE	4	FALSE	company p	FALSE		FALSE	TRUE	TRUE	29	29	0	0	0	0	0	0	14	0			
		Bi Catch Cc	TRUE	4	FALSE	company p	FALSE		FALSE	TRUE	TRUE	29	29	0	0	0	0	0	0	14	0			
		Bi Catch co	TRUE	1	FALSE	company p	FALSE		FALSE	TRUE	TRUE	483	483	0	0	0	0	153	0	1106	0			
		Bi Catch co	TRUE	1	FALSE	company p	FALSE		FALSE	TRUE	TRUE	483	483	0	0	0	0	153	0	1106	0			
		Bi catch co	TRUE	4	FALSE	company p	FALSE		FALSE	TRUE	TRUE	4800	480	0	0	0	0	0	0	0	0			
		Bi catch co	TRUE	4	FALSE	company p	FALSE		FALSE	TRUE	TRUE	4800	480	0	0	0	0	0	0	0	0			
		Bi Catch co	TRUE	3	FALSE	Company f	FALSE		FALSE	TRUE	TRUE	16	16	0	0	0	0	35	0	284	0			
		Bi Catch co	TRUE	3	FALSE	Company f	FALSE		FALSE	TRUE	TRUE	16	16	0	0	0	0	35	0	284	0			
		Bi Catch co	TRUE	4	FALSE	Company f	FALSE		FALSE	TRUE	TRUE													
		Bi Catch co	TRUE	4	FALSE	Company f	FALSE		FALSE	TRUE	TRUE													
		Bi Catch Cc	TRUE	3	FALSE	Company f	FALSE		FALSE	TRUE	TRUE	268	268	0	0	0	0	203	0	50	0			
		Bi Catch Cc	TRUE	3	FALSE	Company f	FALSE		FALSE	TRUE	TRUE	268	268	0	0	0	0	203	0	50	0			
		Bi Catch Cc	TRUE	4	FALSE	Company f	FALSE		FALSE	TRUE	TRUE	379	379	0	0	0	0	0	0	0	0			
		Bi Catch Cc	TRUE	4	FALSE	Company f	FALSE		FALSE	TRUE	TRUE	379	379	0	0	0	0	0	0	0	0			
		Bi Catch co	TRUE	4	FALSE	Company f	FALSE		FALSE	TRUE	TRUE	207	207	0	0	0	0	0	0	0	0			
		Bi Catch co	TRUE	4	FALSE	Company f	FALSE		FALSE	TRUE	TRUE	207	207	0	0	0	0	0	0	0	0			
		bi catch co	TRUE	4	FALSE	Company f	FALSE		FALSE	TRUE	TRUE	145	145	0	0	0	0	8	0	85	0			
		bi catch co	TRUE	4	FALSE	Company f	FALSE		FALSE	TRUE	TRUE	145	145	0	0	0	0	8	0	85	0			
		Bi catch co	TRUE	4	FALSE	company p	FALSE		FALSE	TRUE	TRUE	97	97	0	0	0	0	325	0	52	0			
		Bi catch co	TRUE	4	FALSE	company p	FALSE		FALSE	TRUE	TRUE	97	97	0	0	0	0	325	0	52	0			
		bi catch co	TRUE	4	FALSE	Company f	FALSE		FALSE	TRUE	TRUE	258	258	0	0	0	0	6	0	167	0			
		bi catch co	TRUE	4	FALSE	Company f	FALSE		FALSE	TRUE	TRUE	258	258	0	0	0	0	6	0	167	0			
		Bi Catch Cc	TRUE	5	FALSE	Company f	FALSE		FALSE	TRUE	TRUE													
		Bi Catch Cc	TRUE	5	FALSE	Company f	FALSE		FALSE	TRUE	TRUE													
		Bi catch co	TRUE		FALSE	company p	FALSE		FALSE															
		Bi Catch Cc	TRUE	3	FALSE	Company f	FALSE		FALSE	TRUE	TRUE	526	526	0	0	0	0	310	0	509	0			
		Bi Catch Cc	TRUE	3	FALSE	Company f	FALSE		FALSE	TRUE	TRUE	526	526	0	0	0	0	310	0	509	0			
		Bi catch co	TRUE	5	FALSE	Company f	FALSE		TRUE	ADD's refu:	TRUE	TRUE	21	21	0	0	0	0	0	0	0			
		Bi catch co	TRUE	5	FALSE	Company f	FALSE		TRUE	ADD's refu:	TRUE	TRUE	21	21	0	0	0	0	0	0	0			
		Bi catch co	TRUE	3	FALSE	Company f	FALSE		FALSE	TRUE	TRUE	1387	1387	0	0	0	0	0	0	52	0			
		Bi catch co	TRUE	3	FALSE	Company f	FALSE		FALSE	TRUE	TRUE	1387	1387	0	0	0	0	0	0	52	0			
		Bi catch co	TRUE		FALSE	company p	FALSE		TRUE	ADD's not j														
FALSE	2	FALSE	Not practic	FALSE	Not practic	FALSE		ADD's and	FALSE	TRUE	TRUE	10	0	0	1	0	0	3795	0	0	3471	0		
FALSE	2	FALSE	Not practic	FALSE	Not practic	FALSE		ADD's and	FALSE	TRUE	TRUE	10	0	0	1	0	0	3795	0	0	3471	0		
FALSE	3	FALSE	Not practic	FALSE	Not practic	FALSE		ADD's and	FALSE	TRUE	TRUE	1	0	0	0	1	0	0	0	0	0	0		
FALSE	3	FALSE	Not practic	FALSE	Not practic	FALSE		ADD's and	FALSE	TRUE	TRUE	1	0	0	0	1	0	0	0	0	0	0		
FALSE	2	FALSE	Not practic	FALSE	Not practic	FALSE		ADD's and	FALSE	TRUE	TRUE	4	0	0	1	0	0	0	0	0	0	0		
FALSE	2	FALSE	Not practic	FALSE	Not practic	FALSE		ADD's and	FALSE	TRUE	TRUE	4	0	0	1	0	0	0	0	0	0	0		
FALSE	2	FALSE	Not practic	FALSE	Not practic	FALSE		ADD's and	FALSE	TRUE	TRUE	4	0	0	1	1	0	65	0	0	181	0		
FALSE	2	FALSE	Not practic	FALSE	Not practic	FALSE		ADD's and	FALSE	TRUE	TRUE	4	0	0	1	1	0	65	0	0	181	0		
FALSE	2	FALSE	Not practic	FALSE	Not practic	FALSE		ADD's and	FALSE	TRUE	TRUE	7	0	0	1	0	0	750	0	0	2112	0		
FALSE	2	FALSE	Not practic	FALSE	Not practic	FALSE		ADD's and	FALSE	TRUE	TRUE	7	0	0	1	0	0	750	0	0	2112	0		
FALSE	2	FALSE	Not practic	FALSE	Not practic	FALSE		ADD's and	FALSE	TRUE	TRUE	4	0	0	0	0	0	379	0	0	0	0		
FALSE	2	FALSE	Not practic	FALSE	Not practic	FALSE		ADD's and	FALSE	TRUE	TRUE	4	0	0	0	0	0	379	0	0	0	0		
FALSE	4	FALSE	Not neede	FALSE	Not neede	FALSE		None	FALSE	TRUE	TRUE	160	120	0	0	160	0	1657	0	0	1116	0		
FALSE	4	FALSE	Not neede	FALSE	Not neede	FALSE		None	FALSE	TRUE	TRUE	160	120	0	0	160	0	1657	0	0	1116	0		
FALSE	4	FALSE	Not neede	FALSE	Not neede	FALSE		None.	FALSE	TRUE	TRUE	284	142	0	56	228	0	0	0	0	3272	0		
FALSE	4	FALSE	Not neede	FALSE	Not neede	FALSE		None.	FALSE	TRUE	TRUE	284	142	0	56	228	0	0	0	0	3272	0		
FALSE	4	FALSE	Not neede	FALSE	Not neede	FALSE		None	FALSE	TRUE	TRUE													
FALSE	4	FALSE	Not neede	FALSE	Not neede	FALSE		None	FALSE	TRUE	TRUE													
FALSE		FALSE	Not neede	FALSE	Not neede	FALSE		None	FALSE															
		Effect on w	FALSE	Accumulat	FALSE	Not Freedc	FALSE		FALSE	TRUE	TRUE	27	22	0	27	0	0	0	0	0	232	0		
		Effect on w	FALSE	Accumulat	FALSE	Not Freedc	FALSE		FALSE	TRUE	TRUE	27	22	0	27	0	0	0	0	0	232	0		
		Effect on w	FALSE	Accumulat	FALSE	Not freedo	FALSE		FALSE	TRUE	TRUE	39	17	0	22	0	0	0	0	0	312	0		
		Effect on w	FALSE	Accumulat	FALSE	Not freedo	FALSE		FALSE	TRUE	TRUE	39	17	0	22	0	0	0	0	0	312	0		
		Indiscrimin	FALSE	Accumulat	FALSE	Not freedo	TRUE	Sapphire si	4	FALSE	TRUE	TRUE	4	3	0	4	0	0	0	0	17	0		
		Indiscrimin	FALSE	Accumulat	FALSE	Not freedo	TRUE	Sapphire si	4	FALSE	TRUE	TRUE	4	3	0	4	0	0	0	0	17	0		
		Indiscrimin	FALSE	Accumulat	FALSE	Not Freedc	TRUE	Sapphire si	4	TRUE	ADD use re	TRUE	TRUE	33	23	0	32	1	0	150	0	22	0	
		Indiscrimin	FALSE	Accumulat	FALSE	Not Freedc	TRUE	Sapphire si	4	TRUE	ADD use re	TRUE	TRUE	33	23	0	32	1	0	150	0	22	0	
		Indiscrimin	FALSE	Accumulat	FALSE	Not approv	FALSE		FALSE	TRUE	TRUE	44	31	0	12	1	0	0	0	0	0	0	0	
		Indiscrimin	FALSE	Accumulat	FALSE	Not approv	FALSE		FALSE	TRUE	TRUE	44	31	0	12	1	0	0	0	0	0	0	0	
		Indiscrimin	FALSE	Accumulat	FALSE	Not approv	TRUE	Trialled lov	1	TRUE	Standard A	TRUE	FALSE	52	25	0	27	0	0	872	0	0	68	0

Indiscrimin	FALSE	Accumulat	FALSE	Not approv	TRUE	Trialled lov	1	TRUE	Standard A	TRUE	FALSE	52	25	0	27	0	0	872	0	0	68	0
Indiscrimin	FALSE	Accumulat	FALSE	Not freedo	TRUE	Trialled lov	1	TRUE	Standard A	TRUE	TRUE	23	7	0	16	0	0	149	0	0	0	0
Indiscrimin	FALSE	Accumulat	FALSE	Not freedo	TRUE	Trialled lov	1	TRUE	Standard A	TRUE	TRUE	23	7	0	16	0	0	149	0	0	0	0
Indiscrimin	FALSE	Accumulat	FALSE	Not freedo	FALSE			TRUE	ADD use re	TRUE	TRUE											
Indiscrimin	FALSE	Accumulat	FALSE	Not freedo	FALSE			TRUE	ADD use re	TRUE	TRUE											
tide too str	TRUE	4	FALSE	cost	TRUE	top nets	4 n/a	FALSE		TRUE	TRUE	10	7	0	3	0	0	4	0	0	10	0
tide too str	TRUE	4	FALSE	cost	TRUE	top nets	4 n/a	FALSE		TRUE	TRUE	10	7	0	3	0	0	4	0	0	10	0
tides too si	TRUE	4	FALSE	costs	TRUE	top nets	4 n/a	FALSE		TRUE	TRUE	2	1	0	1	0	0	0	0	0	0	0
tides too si	TRUE	4	FALSE	costs	TRUE	top nets	4 n/a	FALSE		TRUE	TRUE	2	1	0	1	0	0	0	0	0	0	0
tide too str	TRUE	4	FALSE	cost	TRUE	top nets	4 n/a	FALSE		TRUE	TRUE	1	1	0	0	0	0	135	0	0	0	0
tide too str	TRUE	4	FALSE	cost	TRUE	top nets	4 n/a	FALSE		TRUE	TRUE	1	1	0	0	0	0	135	0	0	0	0
Have been	FALSE	Double net	FALSE	cost	TRUE	electric fer	2 none	FALSE		TRUE	TRUE	5	5	0	5	0	0	0	0	0	0	0
Have been	FALSE	Double net	FALSE	cost	TRUE	electric fer	2 none	FALSE		TRUE	TRUE	5	5	0	5	0	0	0	0	0	0	0
no fish on :	FALSE	no fish on :	FALSE	no fish on :	FALSE		none	FALSE		TRUE	TRUE											
no fish on :	FALSE	no fish on :	FALSE	no fish on :	FALSE		none	FALSE		TRUE	TRUE											
Used previ	FALSE	not sure	FALSE	do not beli	TRUE	sonic bang	4 sonic bang	FALSE		TRUE	TRUE	6314	6314	0	6314	0	0	139	0	0	218	0
Used previ	FALSE	not sure	FALSE	do not beli	TRUE	sonic bang	4 sonic bang	FALSE		TRUE	TRUE	6314	6314	0	6314	0	0	139	0	0	218	0
Cage is tow	FALSE	not in use	FALSE	not in use	FALSE			FALSE		TRUE	TRUE	276	276	0	276	0	0	0	0	0	276	0
Cage is tow	FALSE	not in use	FALSE	not in use	FALSE			FALSE		TRUE	TRUE	276	276	0	276	0	0	0	0	0	276	0
high curre	TRUE	5	FALSE	impractical	FALSE		N/A	FALSE		TRUE	TRUE	0										
high curre	TRUE	5	FALSE	impractical	FALSE		N/A	FALSE		TRUE	TRUE	0										
high curre	TRUE	5	FALSE	Impractica	FALSE		N/A	FALSE		TRUE	TRUE	0										
high curre	TRUE	5	FALSE	Impractica	FALSE		N/A	FALSE		TRUE	TRUE	0										
high curre	TRUE	5	FALSE	Impractica	FALSE		N/A	FALSE		TRUE	TRUE	0										
high curre	TRUE	5	FALSE	Impractica	FALSE		N/A	FALSE		TRUE	TRUE	0										
high curre	TRUE	5	FALSE	impractical	FALSE		N/A	FALSE		TRUE	TRUE	0										
high curre	TRUE	5	FALSE	impractical	FALSE		N/A	FALSE		TRUE	TRUE	0										
risk of ente	TRUE	5	FALSE	impractical	FALSE		N/A	FALSE		TRUE	TRUE	0										
risk of ente	TRUE	5	FALSE	impractical	FALSE		N/A	FALSE		TRUE	TRUE	0										
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		TRUE	TRUE	220	220	0	0	0	0	51	0	0	10	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		FALSE	TRUE	4	4	0	0	0	0	0	0	0	0	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		TRUE	TRUE											
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		FALSE	TRUE											
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		TRUE	FALSE											
seals are a	FALSE	seals are a	FALSE	seals are a	FALSE			FALSE		TRUE	TRUE	130	130	0	0	0	0	84	0	0	285	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		TRUE	TRUE	50	50	0	0	0	0	0	0	0	0	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		TRUE	TRUE	98	98	0	0	0	0	0	0	0	0	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		TRUE	TRUE	21	21	0	0	0	0	0	0	0	0	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		TRUE	TRUE	29	29	0	0	0	0	0	0	0	0	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		FALSE	TRUE	6	6	0	0	0	0	0	0	0	17	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		TRUE	FALSE	34	34	0	0	0	0	326	0	0	521	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		TRUE	FALSE	70	70	0	0	0	0	168	0	0	104	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	TRUE	ADD- see a	TRUE	TRUE	133	133	0	TRUE	0	0	116	0	0	15	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	3	FALSE		FALSE	TRUE	602	602	0	0	0	0	452	0	0	594	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		FALSE	FALSE	15	15	0	0	0	0	0	0	0	3	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	3	FALSE		FALSE	TRUE	497	497	0	0	0	0	0	0	0	0	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		FALSE	FALSE											
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		TRUE	TRUE	129	129	0	0	0	0	56	0	0	116	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		TRUE	TRUE	250	250	0	0	0	0	91	0	0	146	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	TRUE	ADDs- to p	TRUE	TRUE	39	39	0	0	0	0	0	0	0	0	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		TRUE	TRUE	132	132	0	0	0	0	0	0	0	0	0
practicality	FALSE	double bas	FALSE	practicality	TRUE	double bas	4	FALSE		FALSE	TRUE	351	351	0	0	0	0	0	0	0	0	0

FishCountI	FishCountK	FishCountE	FishCountI	FishCountK	FishCountE	FishCountI	FishCountK	FishCountE	FishCountI	FishCountK	FishCountE	FishCountI	FishCountK	FishCountE	FishCountI	FishCountK	FishCountE	FishCountI	FishCountK	FishCountE	FishCountI	FishCountK	FishCountE	FishCountI	FishCountK	FishCountE	FishCountI	FishCountK	FishCountE
0	110	0	0	8	0	0	0	0	0	0	0	0	13	0	0	6	0	0	8	0	0	25	0	0	10	0	0		
0	110	0	0	8	0	0	0	0	0	0	0	0	13	0	0	6	0	0	8	0	0	25	0	0	10	0	0		
0	1219	0	0	945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	1219	0	0	945	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	420	0	0	880	0	0	1729	0	0	224	0	0	156	0	0	408	0	0	226	0	0		
0	0	0	0	0	0	0	420	0	0	880	0	0	1729	0	0	224	0	0	156	0	0	408	0	0	226	0	0		
0	5028	0	0	10302	0	0	0	0	0	0	0	0	683	0	0	1612	0	0	1160	0	0	653	0	0	242	0	0		
0	5028	0	0	10302	0	0	0	0	0	0	0	0	683	0	0	1612	0	0	1160	0	0	653	0	0	242	0	0		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	37	0	0		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	37	0	0		
0	0	0	0	0	0	0	0	0	0	31	0	0	35	0	0	0	0	0	90	0	0	170	0	0	82	0	0		
0	0	0	0	0	0	0	0	0	0	31	0	0	35	0	0	0	0	0	90	0	0	170	0	0	82	0	0		
0	55	0	0	269	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	55	0	0	269	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	5853	0	0	8538	0	0	3824	0	0	2060	0	0	2114	0	0	2324	0	0	405	0	0		
0	0	0	0	0	0	0	5853	0	0	8538	0	0	3824	0	0	2060	0	0	2114	0	0	2324	0	0	405	0	0		
0	650	0	0	46	0	0	160	0	0	206	0	0	1403	0	0	1948	0	0	396	0	0	54	0	0	174	0	0		
0	650	0	0	46	0	0	160	0	0	206	0	0	1403	0	0	1948	0	0	396	0	0	54	0	0	174	0	0		
0	1623	0	0	635	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	1623	0	0	635	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
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0	1021	0	0	204	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	4	0	0	25	0	0	86	0	0	284	0	0	523	0	0	59	0	0	0	0	0	0	0	0	0	0	0
0	4	0	0	25	0	0	86	0	0	284	0	0	523	0	0	59	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	5002	0	0	3461	0	0	747	0	0	398	0	0	477	0	0	22	0	0	11	0	0
0	0	0	0	0	0	0	5002	0	0	3461	0	0	747	0	0	398	0	0	477	0	0	22	0	0	11	0	0
0	27	0	0	555	0	0	927	0	0	375	0	0	353	0	0	109	0	0	4	0	0	0	0	0	397	0	0

0	27	0	0	555	0	0	927	0	0	375	0	0	353	0	0	109	0	0	4	0	0	0	0	0	397	0	0
0	24	0	0	0	0	0	120	0	0	571	0	0	1341	0	0	0	0	0	31	0	0	0	0	0	121	0	0
0	24	0	0	0	0	0	120	0	0	571	0	0	1341	0	0	0	0	0	31	0	0	0	0	0	121	0	0
0	97	0	0	84	0	0	1188	0	0	67	0	0	5	0	0	0	0	0	0	0	0	317	0	0	1506	0	0
0	97	0	0	84	0	0	1188	0	0	67	0	0	5	0	0	0	0	0	0	0	317	0	0	1506	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	825	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	825	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	80	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	80	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	100	0	0	60	0	0	551	0	0	36	0	0	73	0	0	4175	0	0	609	0	0	91	0	0	60	0	0
0	100	0	0	60	0	0	551	0	0	36	0	0	73	0	0	4175	0	0	609	0	0	91	0	0	60	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	0	0	70	0	0	197	0	0	240	0	0
0	0	0	0	0	0	0	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	19	0	0
0	0	0	0	5	0	0	2	0	0	44	0	0	84	0	0	229	0	0	25	0	0	0	0	0	0	0	0
0	0	0	0	208	0	0	31	0	0	71	0	0	4	0	0	0	0	0	0	0	0	0	0	0	2	0	0
0	23	0	0	0	0	0	67	0	0	208	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	17	0	0	28	0	0	61	0	0	10	0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	7	0	0	27	0	0	4	0	0	5	0	0	4	0	0	1	0	0	7	0	0	0	0	0	8	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	3	0	0	
0	35	0	0	17	0	0	7	0	0	0	0	0	3	0	0	0	0	0	1	0	0	2	0	0	0	0	
0	191	0	0	116	0	0	70	0	0	347	0	0	262	0	0	167	0	0	42	0	0	154	0	0	54	0	0
0	0	0	0	0	0	0	0	0	0	3	0	0	5	0	0	9	0	0	0	0	0	0	0	0	0	0	
0	1331	0	0	1209	0	0	458	0	0	457	0	0	96	0	0	62	0	0	75	0	0	80	0	0	45	0	0
0	350	0	0	556	0	0	18	0	0	10	0	0	9	0	0	3	0	0	4	0	0	2	0	0	10	0	0
0	32	0	0	15	0	0	18	0	0	18	0	0	27	0	0	11	0	0	15	0	0	10	0	0	70	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	4	0	0	64	0	0	8	0	0	12	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	0	0	176	0	0	
0	51	0	0	135	0	0	138	0	0	142	0	0	69	0	0	67	0	0	300	0	0	138	0	0	51	0	0

FishCount#	FishCount#	FishCount#	SealSiteDa	WelfareCo	WelfareGri	WelfareOtl	WelfareNo	WelfareOtl
0	0 Fewer	0	FALSE	TRUE	FALSE	FALSE		
0	0 Fewer	0	FALSE	TRUE	FALSE	FALSE		
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
767	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
767	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
3	0 Fewer	0	FALSE	TRUE	FALSE	FALSE		
3	0 Fewer	0	FALSE	TRUE	FALSE	FALSE		
272	0 Fewer	0	FALSE	TRUE	FALSE	FALSE		
272	0 Fewer	0	FALSE	TRUE	FALSE	FALSE		
0	0 Same	0	FALSE	TRUE	FALSE	FALSE		
0	0 Same	0	FALSE	TRUE	FALSE	FALSE		
1369	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
1369	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
738	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
738	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
187	0 Fewer	0	FALSE	TRUE	FALSE	FALSE		
187	0 Fewer	0	FALSE	TRUE	FALSE	FALSE		
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
1885	0 Same	0	FALSE	FALSE	FALSE	FALSE		
1885	0 Same	0	FALSE	FALSE	FALSE	FALSE		
323	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
323	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
277	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
277	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
0	0 Same	0	FALSE	TRUE	FALSE	FALSE		
0	0 Same	0	FALSE	TRUE	FALSE	FALSE		
2	0 Fewer	0	FALSE	TRUE	FALSE	FALSE		
2	0 Fewer	0	FALSE	TRUE	FALSE	FALSE		
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
0	0 Fewer	0	FALSE	TRUE	FALSE	FALSE		
0	0 Fewer	0	FALSE	TRUE	FALSE	FALSE		
0	0 Fewer	0	FALSE	TRUE	FALSE	FALSE		
0	0 Fewer	0	FALSE	TRUE	FALSE	FALSE		
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE		
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE		

1138	0 Greater	0	FALSE	TRUE	FALSE	FALSE
1138	0 Greater	0	FALSE	TRUE	FALSE	FALSE
1850	0 Greater	0	FALSE	TRUE	FALSE	FALSE
1850	0 Greater	0	FALSE	TRUE	FALSE	FALSE
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE
2218	0 Greater	0	FALSE	TRUE	FALSE	FALSE
2218	0 Greater	0	FALSE	TRUE	FALSE	FALSE
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE
18	0 Greater	0	FALSE	TRUE	FALSE	FALSE
18	0 Greater	0	FALSE	TRUE	FALSE	FALSE
86	0 Greater	0	FALSE	FALSE	FALSE	FALSE
86	0 Greater	0	FALSE	FALSE	FALSE	FALSE

0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	FALSE
0	0 Fewer	0	FALSE	FALSE	FALSE	FALSE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE

0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE

0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Same	0	FALSE	FALSE	FALSE	TRUE
0	0 Same	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE

0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE

0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE

0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE

0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
150	0 Greater	0	TRUE	TRUE	FALSE	FALSE
150	0 Greater	0	TRUE	TRUE	FALSE	FALSE
0	0 Fewer	0	TRUE	TRUE	FALSE	FALSE
0	0 Fewer	0	TRUE	TRUE	FALSE	FALSE
400	0 Greater	0	TRUE	TRUE	FALSE	FALSE
400	0 Greater	0	TRUE	TRUE	FALSE	FALSE

100	0 Same	0	TRUE	TRUE	FALSE	FALSE
100	0 Same	0	TRUE	TRUE	FALSE	FALSE
0	0 Same	0	FALSE	TRUE	FALSE	FALSE
0	0 Same	0	FALSE	TRUE	FALSE	FALSE

0	0 Fewer	0	FALSE	TRUE	FALSE	FALSE
0	0 Fewer	0	FALSE	TRUE	FALSE	FALSE
0	0 Same	0	FALSE	TRUE	FALSE	FALSE
0	0 Same	0	FALSE	TRUE	FALSE	FALSE

0	0 Same	0	FALSE	TRUE	FALSE	FALSE
0	0 Same	0	FALSE	TRUE	FALSE	FALSE

0	0 Same	0	FALSE	TRUE	FALSE	FALSE
0	0 Same	0	FALSE	FALSE	FALSE	TRUE
0	0 Same	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	TRUE	FALSE	FALSE
0	0 Fewer	0	FALSE	TRUE	FALSE	FALSE

0	0 Fewer	0	FALSE	TRUE	FALSE	FALSE
0	0 Fewer	0	FALSE	TRUE	FALSE	FALSE



342	0 Fewer	0	FALSE	TRUE	FALSE	FALSE
342	0 Fewer	0	FALSE	TRUE	FALSE	FALSE

2753	0 Fewer	0	FALSE	TRUE	FALSE	FALSE
2753	0 Fewer	0	FALSE	TRUE	FALSE	FALSE
403	0 Fewer	0	FALSE	TRUE	FALSE	FALSE
403	0 Fewer	0	FALSE	TRUE	FALSE	FALSE

0	0 Fewer	0	FALSE	TRUE	FALSE	FALSE
0	0 Fewer	0	FALSE	TRUE	FALSE	FALSE
0	0 Same	0	FALSE	TRUE	FALSE	FALSE
0	0 Same	0	FALSE	TRUE	FALSE	FALSE
0	0 Fewer	0	TRUE	TRUE	FALSE	FALSE
0	0 Fewer	0	TRUE	TRUE	FALSE	FALSE

140	0 Greater	0	FALSE	TRUE	FALSE	FALSE
140	0 Greater	0	FALSE	TRUE	FALSE	FALSE
3	0 Greater	0	FALSE	TRUE	FALSE	FALSE
3	0 Greater	0	FALSE	TRUE	FALSE	FALSE
0	0 Fewer	0	FALSE	TRUE	FALSE	FALSE
0	0 Fewer	0	FALSE	TRUE	FALSE	FALSE
0	0 Same	0	FALSE	FALSE	FALSE	FALSE
0	0 Same	0	FALSE	FALSE	FALSE	FALSE

0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Same	0	FALSE	FALSE	FALSE	TRUE
0	0 Same	0	FALSE	FALSE	FALSE	TRUE

96	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
96	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE

0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE

0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE

0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
651	0 Same	0	FALSE	FALSE	FALSE	TRUE
651	0 Same	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE

531	0 Greater	0	FALSE	FALSE	FALSE	TRUE
531	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	TRUE	FALSE	FALSE	FALSE
0	0 Greater	0	TRUE	FALSE	FALSE	FALSE

196	0 Greater	0	FALSE	FALSE	FALSE	FALSE
196	0 Greater	0	FALSE	FALSE	FALSE	FALSE
0	0 Greater	0	FALSE	FALSE	FALSE	FALSE
0	0 Greater	0	FALSE	FALSE	FALSE	FALSE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
58	0 Greater	0	FALSE	FALSE	FALSE	TRUE
58	0 Greater	0	FALSE	FALSE	FALSE	TRUE

19	0 Same	0	FALSE	FALSE	FALSE	TRUE
19	0 Same	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
353	0 Greater	0	FALSE	FALSE	FALSE	TRUE
353	0 Greater	0	FALSE	FALSE	FALSE	TRUE

0	0 Same	0	FALSE	FALSE	FALSE	TRUE
0	0 Same	0	FALSE	FALSE	FALSE	TRUE
310	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
310	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Same	0	FALSE	FALSE	FALSE	TRUE
0	0 Same	0	FALSE	FALSE	FALSE	TRUE
64	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
64	0 Fewer	0	FALSE	FALSE	FALSE	TRUE

507	0 Same	0	FALSE	FALSE	FALSE	TRUE
507	0 Same	0	FALSE	FALSE	FALSE	TRUE

0	0 Greater	0	TRUE	TRUE	FALSE	FALSE
0	0 Greater	0	TRUE	TRUE	FALSE	FALSE
55	0 Greater	0	TRUE	TRUE	FALSE	FALSE
55	0 Greater	0	TRUE	TRUE	FALSE	FALSE

0	0 Greater	0	FALSE	TRUE	FALSE	FALSE
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE
0	0 Same	0	FALSE	TRUE	FALSE	FALSE
0	0 Same	0	FALSE	TRUE	FALSE	FALSE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE
0	0 Greater	0	FALSE	TRUE	FALSE	FALSE
55	0 Greater	0	FALSE	TRUE	FALSE	FALSE
55	0 Greater	0	FALSE	TRUE	FALSE	FALSE
325	0 Greater	0	FALSE	TRUE	FALSE	FALSE

325	0 Greater	0	FALSE	TRUE	FALSE	FALSE
324	0 Greater	0	FALSE	TRUE	FALSE	FALSE
324	0 Greater	0	FALSE	TRUE	FALSE	FALSE
1207	0 Fewer	0	FALSE	TRUE	FALSE	FALSE
1207	0 Fewer	0	FALSE	TRUE	FALSE	FALSE
1611	0 Greater	0	FALSE	TRUE	FALSE	FALSE
1611	0 Greater	0	FALSE	TRUE	FALSE	FALSE
0	0 Fewer	0	FALSE	FALSE	FALSE	FALSE
0	0 Fewer	0	FALSE	FALSE	FALSE	FALSE
0	0 Same	1	FALSE	TRUE	FALSE	FALSE
0	0 Same	1	FALSE	TRUE	FALSE	FALSE
202	0 Fewer	7	FALSE	TRUE	TRUE	FALSE
202	0 Fewer	7	FALSE	TRUE	TRUE	FALSE
0	0 Fewer	1	FALSE	FALSE	TRUE	FALSE
0	0 Fewer	1	FALSE	FALSE	TRUE	FALSE
	Same	0	FALSE	FALSE	TRUE	FALSE
	Same	0	FALSE	FALSE	TRUE	FALSE
	Same	0	FALSE	FALSE	TRUE	FALSE
	Same	0	FALSE	FALSE	TRUE	FALSE
	Same	0	FALSE	FALSE	TRUE	FALSE
	Same	0	FALSE	FALSE	TRUE	FALSE
	Same	0	FALSE	FALSE	TRUE	FALSE
	Same	0	FALSE	FALSE	TRUE	FALSE
	Same	0	FALSE	FALSE	TRUE	FALSE
	Same	0	FALSE	FALSE	TRUE	FALSE
235	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	TRUE	FALSE
30	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
25	0 Greater	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	TRUE	FALSE
7	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	TRUE	FALSE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
15	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
157	0 Greater	0	FALSE	FALSE	FALSE	FALSE
0	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
53	0 Greater	0	FALSE	FALSE	FALSE	FALSE
0	0 Greater	0	FALSE	FALSE	FALSE	TRUE
88	0 Greater	2	FALSE	FALSE	TRUE	FALSE
13	0 Fewer	0	FALSE	FALSE	FALSE	TRUE
157	0 Same	0	FALSE	FALSE	FALSE	TRUE
35	0 Same	0	FALSE	FALSE	FALSE	FALSE

[Redacted]	Predation events quar
[Redacted]	Predation events quar
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	Akva EcoNets installed
	Akva EcoNets installed
	Akva EcoNets used
	Akva EcoNets used

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	HDPE predator netting
	HDPE predator netting

[Redacted]	HDPE predator nets to
[Redacted]	HDPE predator nets to

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[Redacted]	since seal attacks new
[Redacted]	since seal attacks new
[Redacted]	

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[Redacted]	Akva Econets fitted
	Akva Econets fitted
	Fitted with HDPS pred
	Fitted with HDPS pred

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weights are not directl
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N/a
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The seals often frighte
The seals often frighte
Difficult to attribute lo
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Site is currently fallow
Site is currently fallow

site currently fallow bu
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site currently fallow - 1
site currently fallow - 1
Weights are attached to
Weights are attached to

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Although ADD's were i
Although ADD's were i

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This site is currently fa
This site is currently fa

[illegible]

[Redacted] [Redacted] [Redacted]	New site, only stocker New site, only stocker
[Redacted] [Redacted] [Redacted] [Redacted] n/a n/a [Redacted] [Redacted]	The fish currently on s The fish currently on s site has been fallow site has been fallow For seal events I have For seal events I have
[Redacted] [Redacted] [Redacted] [Redacted] As this information is made available under FOI, it is not appropriate to provide financial information. As this information is made available under FOI, it is not appropriate to provide financial information. As this information is made available under FOI, it is not appropriate to provide financial information as part of a seal shooting licence application. As this information is made available under FOI, it is not appropriate to provide financial information as part of a seal shooting licence application. As this information is made available under FOI, it is not appropriate to provide financial information as part of a seal shooting licence application. As this information is made available under FOI, it is not appropriate to provide financial information as part of a seal shooting licence application. As this information is made available under FOI, it is not appropriate to provide financial information as part of a seal shooting licence application. As this information is made available under FOI, it is not appropriate to provide financial information as part of a seal shooting licence application. As this information is made available under FOI, it is not appropriate to provide financial information as part of a seal shooting licence application. As this information is made available under FOI, it is not appropriate to provide financial information as part of a seal shooting licence application. [Redacted] [Redacted]	Under the seal damage; Under the seal damage; Under the seal damage; Under the seal damage; Under the seal damage; Under the seal damage; Under the seal damage; Under the seal damage; Under the seal damage; Under the seal damage; Under the seal damage; Under the seal damage;
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erience relates to the old site that was present previously. The new site has all new equipment and it is anticipated that predation will be less due to Froyer rings and greater net tensioning possible
erience relates to the old site that was present previously. The new site has all new equipment and it is anticipated that predation will be less due to Froyer rings and greater net tensioning possible

BS operations and having management control of the site we anticipate making several changes to the operations such as changing cage size, nets and how nets are weighted. This should have a positive effect in reducing seal predation at the site. At the time of writing the report although we mort numbers at the
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ified by weeks were there was mortality due to seals.
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en new nets were fitted.
en new nets were fitted.

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be fitted this spring for next generation
be fitted this spring for next generation

monofilament nets have been fitted
monofilament nets have been fitted

ator nets
ator nets

ly onto downlines, nets are tensioned to weights using a slider weight system
ly onto downlines, nets are tensioned to weights using a slider weight system

n the halibut but do not kill any (that we are aware of).
n the halibut but do not kill any (that we are aware of).
isses to grey/common seals are both in the area. 2 common seals were causing significant damage in the spring of 2015
isses to grey/common seals are both in the area. 2 common seals were causing significant damage in the spring of 2015

nfo as commercially sensitive
nfo as commercially sensitive
igures as commercially sensitive. Site to be restocked in October 2015
igures as commercially sensitive. Site to be restocked in October 2015



but form does not allow you to proceed without a date for the current cycle
but form does not allow you to proceed without a date for the current cycle

ut form does not allow you to put a stocking date in the future, also does not allow you to proceed without putting a date
ut form does not allow you to put a stocking date in the future, also does not allow you to proceed without putting a date

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ut will not allow you to put a date in the future and will not allow you to proceed without a date
ut will not allow you to put a date in the future and will not allow you to proceed without a date

but does not allow for this is this questionnaire.
but does not allow for this is this questionnaire.
to the pens and nets are tensioned to the weights with slider weight system. 2t weight in centre and 1t on cage edges
to the pens and nets are tensioned to the weights with slider weight system. 2t weight in centre and 1t on cage edges

n operation throughout the cycle, they were turned off when Pilot whales were seen in the area
n operation throughout the cycle, they were turned off when Pilot whales were seen in the area

llow but is due to be stocked from March 2016. Details for Ardessie B (Registration number: FS0675) completed with guidance from Marine Scotland
llow but is due to be stocked from March 2016. Details for Ardessie B (Registration number: FS0675) completed with guidance from Marine Scotland

31 in September 2015
31 in September 2015

They are really too small to attract attention from seals, but as these fish grow I expect predation attempts by seals to increase
They are really too small to attract attention from seals, but as these fish grow I expect predation attempts by seals to increase

used the number of dead fish removed. Dead fish are normally removed weekly, & from multiple cages.
used the number of dead fish removed. Dead fish are normally removed weekly, & from multiple cages.

the section - there are no seal predation events witnessed by seals however the seal predation was observed through the mortalities - monthly numbers are recorded above. All daily net records are available on the site and would take time to electronically record these daily to provide MS with this information
the section - there are no seal predation events witnessed by seals however the seal predation was observed through the mortalities - monthly numbers are recorded above. All daily net records are available on the site and would take time to electronically record these daily to provide MS with this information
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since 2008 in April, there should be an n/a option available for question "Is this an increase on, fewer than or the same as, previous years"
since 2008 in May, there should be an n/a option available for question "Is this an increase on, fewer than or the same as, previous years"

present time we have not had sufficient feedback to attribute this to categories such as Seals. As such I have left this section uncomplete
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Region	Company	ADD
Shetland	Cooke	Don't use
Shetland	Hjatland	Don't use
South West	Hjatland	Don't use
Outer Hebrides	Scottish Salmon Co	Ace aquatec US3
South West	Scottish Salmon Co	Ace aquatec US3
West Scotland	Scottish Salmon Co	Airmar, OTAQ Sealfance, Ace aquatec US3
South West	Scottish Salmon Co	Airmar, Ace aquatec
South West	Marine Harvest	Mon aqua, Terecos
Outer Hebrides	Marine Harvest	Don't use
West Scotland	Marine Harvest	Terecos, Airmar, Mohn aqua
Orkney and the North Coast	Scottish Sea Farms	Airmar, Ace aquatec
Shetland	Scottish Sea Farms	Mohn AquaMAG, Ace aquatec US3
West Scotland	Scottish Sea Farms	Mohn aqua, Airmar
West Scotland	Loch Duart	Airmar, Mohnaqua, Ace aquatec
Shetland	Balta	Ace aquatec, Lofitech
South West	Dawnfresh	Mon Aqua

LicenceName	LicenceStatus	GreySealAllowance	CommonSealAllowance	LicencePeriod	LicenceType	ManagementArea	LicencedCompany	CreationDate	ApplicationPeriod	ApplicationStatus	SubmissionDate
WS24/2017/D	Rejected			01/02/2017 - 31/01/2018	Damage	West Scotland	Shiel Fishery Sub-Board	10/10/2016	01/10/2016 - 30/09/2017	Rejected	2016-10-11
SW02/2017/D	Pending			01/02/2017 - 31/01/2018	Damage	South West Scotland	Nith District Salmon Fishery Board	11/10/2016	01/10/2016 - 30/09/2017	Granted	2016-10-17
ONC07/2017/D	Pending			01/02/2017 - 31/01/2018	Damage	Orkney & North Coast	Northern Salmon Management Group	13/10/2016	01/10/2016 - 30/09/2017	Granted	2016-10-28
WS22/2017/D	Pending			01/02/2017 - 31/01/2018	Damage	West Scotland	Northern Salmon Management Group	13/10/2016	01/10/2016 - 30/09/2017	Granted	2016-11-02
EC12/2017/D	Pending			01/02/2017 - 31/01/2018	Damage	East Coast	The Dee District Salmon Fisheries Board	14/10/2016	01/10/2016 - 30/09/2017	Granted	2016-10-25
EC07/2017/D	Pending			01/02/2017 - 31/01/2018	Damage	East Coast	Ythan District Salmon Fishery Board	20/10/2016	01/10/2016 - 30/09/2017	Granted	2016-10-21
MF01/2017/D	Pending			01/02/2017 - 31/01/2018	Damage	Moray Firth	Moray Firth Seal Management Plan	20/10/2016	01/10/2016 - 30/09/2017	Granted	2016-11-09
MF01/2017/D	Pending			01/02/2017 - 31/01/2018	Damage	Moray Firth	Moray Firth Seal Management Plan	20/10/2016	01/10/2016 - 30/09/2017	Granted	2016-11-09
MF01/2017/D	Pending			01/02/2017 - 31/01/2018	Damage	Moray Firth	Moray Firth Seal Management Plan	20/10/2016	01/10/2016 - 30/09/2017	Granted	2016-11-09
MF01/2017/D	Pending			01/02/2017 - 31/01/2018	Damage	Moray Firth	Moray Firth Seal Management Plan	20/10/2016	01/10/2016 - 30/09/2017	Granted	2016-11-09
MF01/2017/D	Pending			01/02/2017 - 31/01/2018	Damage	Moray Firth	Moray Firth Seal Management Plan	20/10/2016	01/10/2016 - 30/09/2017	Granted	2016-11-09
MF01/2017/D	Pending			01/02/2017 - 31/01/2018	Damage	Moray Firth	Moray Firth Seal Management Plan	20/10/2016	01/10/2016 - 30/09/2017	Granted	2016-11-09
MF01/2017/D	Pending			01/02/2017 - 31/01/2018	Damage	Moray Firth	Moray Firth Seal Management Plan	20/10/2016	01/10/2016 - 30/09/2017	Granted	2016-11-09
MF01/2017/D	Pending			01/02/2017 - 31/01/2018	Damage	Moray Firth	Moray Firth Seal Management Plan	20/10/2016	01/10/2016 - 30/09/2017	Granted	2016-11-09
MF01/2017/D	Pending			01/02/2017 - 31/01/2018	Damage	Moray Firth	Moray Firth Seal Management Plan	20/10/2016	01/10/2016 - 30/09/2017	Granted	2016-11-09

MF01/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	Moray Firth	Moray Firth Seal Management Plan	20/10/2016 01/10/2016 - 30/09/2017	Granted	2016-11-09
MF01/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	Moray Firth	Moray Firth Seal Management Plan	20/10/2016 01/10/2016 - 30/09/2017	Granted	2016-11-09
MF01/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	Moray Firth	Moray Firth Seal Management Plan	20/10/2016 01/10/2016 - 30/09/2017	Granted	2016-11-09
MF01/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	Moray Firth	Moray Firth Seal Management Plan	20/10/2016 01/10/2016 - 30/09/2017	Granted	2016-11-09
MF01/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	Moray Firth	Moray Firth Seal Management Plan	20/10/2016 01/10/2016 - 30/09/2017	Granted	2016-11-09
MF01/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	Moray Firth	Moray Firth Seal Management Plan	20/10/2016 01/10/2016 - 30/09/2017	Granted	2016-11-09
MF01/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	Moray Firth	Moray Firth Seal Management Plan	20/10/2016 01/10/2016 - 30/09/2017	Granted	2016-11-09
EC11/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	East Coast	Kinnaber Fishings	21/10/2016 01/10/2016 - 30/09/2017	Granted	2016-11-01
WS02/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	West Scotland	Shiel Fishery Sub-Board	24/10/2016 01/10/2016 - 30/09/2017	Granted	2016-10-24
EC06/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	East Coast	Tay District Salmon Fisheries Board	26/10/2016 01/10/2016 - 30/09/2017	Granted	2016-10-27
ONC05/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	Orkney & North Coast	Strath Halladale Partnership	26/10/2016 01/10/2016 - 30/09/2017	Granted	2016-11-10
ONC06/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	Orkney & North Coast	River Borgie Estate	27/10/2016 01/10/2016 - 30/09/2017	Granted	2016-10-27
WI02/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	Western Isles	Uig and Hamanavay Estate	27/10/2016 01/10/2016 - 30/09/2017	Granted	2016-10-27
ONC08/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	Orkney & North Coast	River Naver Fisheries	28/10/2016 01/10/2016 - 30/09/2017	Granted	2016-10-28
SW06/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	South West Scotland	Argyll District Salmon Fishery Board	31/10/2016 01/10/2016 - 30/09/2017	Granted	2016-10-31
WS05/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	West Scotland	Argyll District Salmon Fishery Board	31/10/2016 01/10/2016 - 30/09/2017	Granted	2016-10-31
ONC09/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	Orkney & North Coast	Forss House Fishings	07/11/2016 01/10/2016 - 30/09/2017	Granted	2016-11-07

riverName	SiteOwner	RiverID	LicenceID	EquipmentRodLine	EquipmentOtherUsed	EquipmentOther	InProgress	ExistingLicence	ADDUsed	ADDTransducerCount
Shiel Catchment	Shiel Fishery Sub-Board	4	197	TRUE	FALSE		FALSE	TRUE	FALSE	
river nith	Nith District Salmon Fishery Board	2	198	TRUE	FALSE		FALSE	TRUE	FALSE	
Northern Salmon Management Group	Northern Salmon Management Group	24	203	TRUE	FALSE		FALSE	TRUE	FALSE	
North West Salmon Management Group	Northern Salmon Management Group	23	204	TRUE	FALSE		FALSE	TRUE	FALSE	
River Dee Aberdeenshire	The Dee District Salmon Fisheries Board	3	205	TRUE	FALSE		FALSE	TRUE	TRUE	6
Ythan	Ythan District Salmon Fishery Board	5	214	TRUE	FALSE		FALSE	TRUE	FALSE	
Spey	Moray Firth Seal Management Plan	9	215	TRUE	FALSE		FALSE	TRUE	FALSE	
River Deveron	Moray Firth Seal Management Plan	16	215	TRUE	FALSE		FALSE	TRUE	FALSE	
Lossie	Moray Firth Seal Management Plan	17	215	TRUE	FALSE		FALSE	TRUE	FALSE	
Findhorn	Moray Firth Seal Management Plan	18	215	TRUE	FALSE		FALSE	TRUE	FALSE	
Nairn	Moray Firth Seal Management Plan	19	215	TRUE	FALSE		FALSE	TRUE	FALSE	
Ness	Moray Firth Seal Management Plan	20	215	TRUE	FALSE		FALSE	TRUE	FALSE	
Helmsdale	Moray Firth Seal Management Plan	33	215	TRUE	FALSE		FALSE	TRUE	FALSE	
Fleet	Moray Firth Seal Management Plan	34	215	TRUE	FALSE		FALSE	TRUE	FALSE	
Cassley	Moray Firth Seal Management Plan	35	215	TRUE	FALSE		FALSE	TRUE	FALSE	

Moriston	Moray Firth Seal Management Plan	36	215	TRUE	FALSE	FALSE	TRUE	FALSE
Beauly	Moray Firth Seal Management Plan	21	215	TRUE	FALSE	FALSE	TRUE	FALSE
Conon	Moray Firth Seal Management Plan	28	215	TRUE	FALSE	FALSE	TRUE	FALSE
Carron	Moray Firth Seal Management Plan	29	215	TRUE	FALSE	FALSE	TRUE	FALSE
Oykel	Moray Firth Seal Management Plan	30	215	TRUE	FALSE	FALSE	TRUE	FALSE
Shin	Moray Firth Seal Management Plan	31	215	TRUE	FALSE	FALSE	TRUE	FALSE
Brora	Moray Firth Seal Management Plan	32	215	TRUE	FALSE	FALSE	TRUE	FALSE
north esk	Kinnaber Fishings	37	226	TRUE	FALSE	FALSE	TRUE	TRUE
The Shiel Catchment	Shiel Fishery Sub-Board	41	228	TRUE	FALSE	FALSE	TRUE	FALSE
Tay Halladale	Tay District Salmon Fisheries Board Strath Halladale Partnership	27	241	TRUE	FALSE	FALSE	TRUE	FALSE
		15	247	TRUE	FALSE	FALSE	TRUE	FALSE
River Borgie	River Borgie Estate	25	248	TRUE	FALSE	FALSE	TRUE	FALSE
loch hamanavay	Uig and Hamanavay Estate	26	249	TRUE	FALSE	FALSE	TRUE	FALSE
River Naver	River Naver Fisheries	22	256	TRUE	FALSE	FALSE	TRUE	FALSE
Fyne, Aray, Douglas, Kinglas, Machrie, Iorsa	Argyll District Salmon Fishery Board	14	260	TRUE	FALSE	FALSE	TRUE	FALSE
Nell, Euchar, Creran, Awe, Etive, Kinglass, Liver, Noe Forss	Argyll District Salmon Fishery Board Forss House Fishings	13	261	TRUE	FALSE	FALSE	TRUE	FALSE
		42	262	TRUE	FALSE	FALSE	TRUE	FALSE

ADDModel

ADDFrequency

ADDOutput

ADDOct

ADDNov

ADDDec

ADDJan

ADDFeb

ADDMar

ADDApr

Lofitech = 15.0kHz MAG = 10.3kHz (contact [Redacted] for MAG for details [Redacted])

Lofitech = 15.0 MAG = 10.3 Lofitech = 190dB MAG = 192dB TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRUE

Lofitech

Supplied by SMRU

190

TRUE TRUE TRUE TRUE TRUE TRUE TRUE

ADDMay ADDJun ADDJul ADDAug ADDSep ADDAlwaysOn ADDTriggerFishSize ADDTriggerFishBehaviour ADDTriggerSealSpot ADDTriggerSealAttack ADDTriggerOther ADDTriggerOtherText ADDEffectiveness

TRUE TRUE TRUE TRUE TRUE TRUE

TRUE TRUE TRUE TRUE TRUE TRUE

ADDNotUsedReason

The seals are usually seen towards the lower part of the river close to the falls or in the upper part of the estuary. The former is where the water is flowing fast and noisily and the latter will be up to 300 metres wide, at high tide, when the seals are most likely to be seen there. ADDs

No seal issue arose during last licence period

Not practical and uneconomic for small Highland spate streams.

Not practical and uneconomic for Highland spate streams.

Acoustic device not made available by proprietors

ADDs are deployed at Portmahomack as part of the region's Seal Management Plan.

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The River Tay is a very big wide river, about 100m wide at the main point of concern with a strong current. We have been advised by SMRU that seal scarers just wouldn't really be practical.

Not viable

Public area and quite close to peoples property.

location and remoteness of site.

This type of device is not deemed to be practical or appropriate in this location. There are also concerns regarding the long-term impacts of such devices on other wildlife such as otters and porpoises which frequent the area.

Nor practical in a river

Not practical for use in rivers

The cost of using an ADS system to a small fishery like ourselves if financially prohibitive

OtherUsed

TRUE

FALSE

TRUE

TRUE

TRUE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

TRUE

TRUE

FALSE

TRUE

TRUE

TRUE

FALSE

FALSE

FALSE

FALSE

OtheUsedDescription

If anglers see seals in the river they will shout, wave their arms about and splash the water etc. to try to scare off the seals but this rarely has anything other than a temporary effect. A seal will normally resurface, after a time, a short distance away.

Discharging of firearms to frighten seals.

Discharging firearms to frighten seals.

Physical scaring. When seal is reported in the river a member of staff is immediately sent to location, photographs are taken if possible and an attempt is made to head off the seal and push it downstream. This is done by shouting, waving, throwing stones or if safe to do so an authorised marksman fires warning shots. Board staff are on 24hr stand by to respond to seal incursions. Although we can usually push the seal downstream, the damage to the fishery will have already occurred.

Scare Shooting

If anglers see seals in the river they will shout, wave their arms about and splash the water etc. to try to scare off the seals but this rarely has anything other than a temporary effect. A seal will normally resurface, after a time, a short distance away

Will try and scare the seals away

High human presence in the estuary if seals appear . The estuary is also a popular area for dog walkers and this usually moves the seals back out to sea.

the use of boats to scare the seals away from the river mouth.

None.	FALSE	TRUE
None.	FALSE	TRUE
None.	FALSE	TRUE
None.	FALSE	TRUE
None.	FALSE	TRUE
None.	FALSE	TRUE
None.	FALSE	TRUE
4	FALSE	TRUE
1	FALSE	FALSE
2 I have tried scaring seals rather than shooting. Works to a small degree.	FALSE	TRUE
4 none	FALSE	TRUE
3	FALSE	TRUE
	FALSE	TRUE
	FALSE	TRUE
	FALSE	TRUE
	FALSE	TRUE

[illegible]

[illegible]

SealEventCountAug	SealEventCountSep	SealEventComparison	SealEventGreyCount	SealEventCommonCount	SealGreyFishInjuryCount	SealGreyFishEventCount	SealCommonFishInjuryCount	SealCommonFishEventCount

1	0 Greater		0	3	0	0	2	1

0	0 Same		0	0	0	0	0	0

0	0 Same		0	0	0	0	0	0

1	3 Fewer		12	22	360	24	360	24

5	0 Same		25	3	18	20	2	25

0	0 Greater		0	0	0	0	0	0

0	0 Greater		0	0	0	0	0	0

0	0 Same		0	0	0	0	0	0

0	0 Greater		0	0	0	0	0	0

0	0 Same		0	0	0	0	0	0

0	0 Same		0	0	0	0	0	0

0	0 Same		0	0	0	0	0	0

0	0 Same		0	0	0	0	0	0

0	0 Same		0	0	0	0	0	0

0	0 Same	0	0	0	0	0	0
0	0 Same	0	0	0	0	0	0
0	0 Greater	0	0	0	0	0	0
0	0 Same	0	0	0	0	0	0
0	0 Same	0	0	0	0	0	0
0	0 Same	0	0	0	0	0	0
0	0 Same	0	0	0	0	0	0
1	0 Greater	0	3	0	0	2	1
0 55	0 Same 9 Greater	0 161	0 161	0 161	0 15	0 1	0 0
0	0 Same	0	0	21	2	0	0
1	0 Greater	0	0	32	0	32	1
0 1	0 Same 1 Same	0 3	3 0	0 0	0 2	0 0	3 2

FinancialLossEstimate

Whilst it is difficult to estimate the financial loss due to seal predation during the season, the fact that some anglers saw the damaged fish does give them concern as to how many other fish have been attacked and not survived, particularly if those anglers are aware that up to 60 sea

The NSMG area has some of the most renowned rivers in Scotland. Any significant factor including predation which impacts on salmon numbers will have a detrimental economic impact on local communities and the value of fisheries. The inability to protect a valuable resource again
The NWSMG area has some of the most renowned rivers in Scotland. The area also includes an SAC specifically for salmon (Little Gruinard). Any predation which impacts on salmon numbers will have detrimental economic impact on local communities whilst potentially detrimentally

Financial losses come in two forms. The first is the removal of salmon from the fishery, thus reducing the number of salmon available to anglers. During 2014 each individual rod caught salmon was estimated to bring £3,921 to the local economy (£14M to local economy/3570 salmon [Redacted] The total resulting loss is [Redacted].
The loss to the river as a whole is more difficult to quantify. The number of anglers fishing on the Ythan has reduced. This is partly as a result of the number of seals present in the estuary. [Redacted]

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Seals do eat salmon in the upper estuary and lower freshwater part of the River Tay when they are present there. However, we have no quantitative data on numbers of salmon killed or injured and we cannot quantify the financial loss incurred by fish that have been killed or injured.
not quantifiable

As an inland rod and line fishery it is impossible to put a figure on any financial losses. Any figure i put on the losses would be pure guesswork and I dont want to do that as it would not be beneficial to your survey figures .

It is not possible to determine the total number of River Naver salmon killed by seals; however a tick box on our weekly catch reports allows us to determine how many seal damaged fish are caught each season. Photo evidence is also requested as often as ghillies are able to provide

Minimal

Impossible to predict, seals have been seen present in the bay. We are no to know the true number they have taken.

AdditionalComments

A couple of fish caught during the 2016 had scars from what looked like seal predation. It should be noted that during this season all salmon and sea trout were immediately returned to the water once the fish were brought to the bank. The anglers are keen to release the fish as soon as possible and unless predation was quite serious they would be unlikely to notice it. On one occasion in July, close to high tide, the marksman, then without his rifle, saw a seal following jumping salmon near the head of the estuary. As only Common seals are in Loch Moidart and there can be up to about 60 seen on the rocks at the relatively narrow entrance the loch, it is assumed the predation is by Common seals.

Seals are present in the Solway Firth, albeit, not in great numbers. As stated in our licence application, the purpose for us obtaining a licence is purely to deal with an individual rogue appearing in our system and penetrating as far up river as Dumfries, as has previously happened. This has not happened in all the time that we have held a licence and therefore we have never shot a seal. The purpose for us applying for a licence is not depended on the number of seals present within the Solway Firth. We have left the number of seal predation events above at zero on the advice of the Marine planning and policy unit. The reason is that in reality seal predation takes place between Cape Wrath and the Kinloch Estuary on a daily basis and it is simply not possible for the NSMG to record these events. We have left the number of seal predation events above at zero on the advice of the Marine planning and policy unit. The reason is that in reality seal predation takes place between Cape Wrath and the Applecross Peninsula on a daily basis and it is simply not possible for the NWSMG to record these events. Atlantic salmon enter the Dee each month of the year. From the beginning of February through to the middle of October a rod and line fishery operates. This fishery usually catches an average of approximately 7000 salmon a year. This generates £15 million in current values to the local economy and supports approximately 500 full time equivalent jobs.

It should be noted that over the last three years the numbers of fish returning to the Dee have declined. In 2016 the Dee recorded a very low catch of 3600 salmon. This compares to the long term average of 7000 rod caught salmon. The International Council for the Exploration of the Sea and North Atlantic Salmon Conservation Organisation recommend using rod catch as an indicator of stock abundance through the Rod Catch Management Tool. This objective tool has been implemented on the Dee and has indicated that for 2015 the rod catch of salmon failed in each month of the year. It is against this backdrop of failing salmon stocks and the subsequent integrity of the SAC designation that this licence application has been compiled. This analysis holds true for 2016 rod catch. There is no formal data for the Dee due to the fact that 99% of fish are returned quickly evidence of damage is not always reported. On the Spey up to 40% of rod caught salmon were damaged in February, declining to 1% in September (Butler, 2004). Figures are therefore estimated at 10%, which corresponds to anecdotal reports from ghillies.

We are not in a position to provide accurate data on the numbers of predation events. Having researched our files, there appears to have been some data collation of these events in 2005, when the Moray Firth Seal Management Plan was still in its infancy, but there does not appear to have been anything since. We will, however, try to reinstate this over the next year with the Plan/Licence operatives.

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Seal scarer is believed to be largely effective. Seal license is required for periods when seal scarer is non operational. Not possible to distinguish between Grey and Harbour seal in the predation and witness events.

As only Common seals are in Loch Moidart and during summer 2016 about 60 have been seen on the rocks at the relatively narrow entrance the loch, it is assumed the predation is by Common seals.

A couple of fish caught during the 2016 had scars from what looked like seal predation. It should be noted that during this season all salmon and sea trout were immediately returned to the water once the fish were brought to the bank. The anglers are keen to release the fish as soon as possible and unless predation was quite serious they would be unlikely to notice it. On one occasion in July, close to high tide, the marksman, then without his rifle, saw a seal following jumping salmon at the head of the estuary.

the main issue for us is not the amount of predation caused by seals in the lower freshwater reaches of the River Tay (what happens in the outer estuary where seal numbers are much larger is another matter). What is of great concern is that in the area to which this application refers, is in fact an area where salmon angling takes place. The lower reaches of the Tay are some of the highest value angling fisheries on the river and indeed in Scotland. When seals are present they have a serious negative impact on angling quality as salmon are scared out of the areas used by seals. Their presence also impacts on the confidence of anglers who may choose not to fish in such places in future. the estimated loss in rent to Mansfield Estates alone if seals were completely unchecked and the fishing ruined would be of the order of perhaps as much as [Redacted] per year with a further consequence loss to the local economy via hoteliers etc that would lose business.

I can only estimate I cannot quantify.

For the period mentioned above it is impossible to be sure which species caused the damage and as your questionnaire will not let me answer unknown I have had to put a zero in each box.

We have not noticed any seal damaged fish this season. due to heavy rain fall and spates on the river at the time the fish arrived they were able to get up the river and not build up in the estuary where they are under threat from seals.

Nothing further to add. Between this survey and our application every possible effort has been made to highlight the true extent of the issue on the Naver. If you have any further questions regarding this during the application review, please do not hesitate to get in touch.

As with previous years, this licence is purely for precautional reasons. We did receive reports on seals in rivers in 2016, however there was no evidence that salmon or sea trout were predated.

As with previous years, this licence is purely precautional. We have reports of increased seal predation in Loch Feochan (Rivers Nell and Euchar) and Loch Etive (near River Etive) however no seals were culled in 2016.

LicenceName	LicenceStatus	LicencePeriod	LicenceType	ManagementArea	ApplicationPeriod	FishFarmName	RegistrationNumber	SchemeAffiliation	SiteOwner	InProgress	SiteStatus	WillBeStocked
SW08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	South West Scotland	01/10/2016 - 30/09/2017	Ardcastle	FS0818		The Scottish Salmon Company	FALSE	Existing	TRUE
SW08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	South West Scotland	01/10/2016 - 30/09/2017	Ardgadden	FS0851		The Scottish Salmon Company	FALSE	Existing	TRUE
SW08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	South West Scotland	01/10/2016 - 30/09/2017	Ardyne	FS0559		The Scottish Salmon Company	FALSE	Existing	TRUE
SW08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	South West Scotland	01/10/2016 - 30/09/2017	Furnace	FS0567		The Scottish Salmon Company	FALSE	Existing	TRUE
SW08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	South West Scotland	01/10/2016 - 30/09/2017	Glenan Bay	FS0590		The Scottish Salmon Company	FALSE	Existing	TRUE

SW08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	South West Scotland	01/10/2016 - 30/09/2017	Gob a Bharra	FS0683	The Scottish Salmon Company	FALSE	Existing	TRUE
SW08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	South West Scotland	01/10/2016 - 30/09/2017	Lamlash Bay	FS0423	The Scottish Salmon Company	FALSE	Existing	TRUE
SW08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	South West Scotland	01/10/2016 - 30/09/2017	Meall Mhor	FS0091	The Scottish Salmon Company	FALSE	Existing	TRUE
SW08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	South West Scotland	01/10/2016 - 30/09/2017	Quarry Point	FS0698	The Scottish Salmon Company	FALSE	Existing	TRUE
SW08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	South West Scotland	01/10/2016 - 30/09/2017	Rubha Stillaig	FS0894	The Scottish Salmon Company	FALSE	Existing	TRUE

SW08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	South West Scotland	01/10/2016 - 30/09/2017	Sgian Dubh	FS1281	The Scottish Salmon Company	FALSE	Existing	TRUE
SW08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	South West Scotland	01/10/2016 - 30/09/2017	Strondoir Bay	FS1019	The Scottish Salmon Company	FALSE	Existing	TRUE
SW08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	South West Scotland	01/10/2016 - 30/09/2017	Strone	FS1056	The Scottish Salmon Company	FALSE	Existing	TRUE
SW08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	South West Scotland	01/10/2016 - 30/09/2017	Tarbert South	FS0767	The Scottish Salmon Company	FALSE	Existing	TRUE
ONC10/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Bay of Cleat North	FS1080	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
ONC10/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Bay Of Cleat South	FS0595	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
ONC10/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Bay of Ham	FS0122	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
ONC10/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Bay of Vady	FS1020	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
ONC10/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Carness Bay	FS0390	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
ONC10/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Chalmers Hope	FS0993	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
ONC10/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Kirknoust	FS0645	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
ONC10/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Lyrawa Bay	FS0054	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
ONC10/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Meil Bay	FS0597	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
ONC10/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Ouseness	FS1209	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
ONC10/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Pegal Bay	FS0031	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
ONC10/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Quanterness	FS/0908	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
ONC10/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	South Cava	FS1198	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
ONC10/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Vestness	FS/1210	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
ONC10/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	West Fara	FS/1017	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Scallastle	FS0209	Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Loch Spelve (B)	FS0253	Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Dunstaffnage	FS0299	Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Loch Creran (B)	FS0426	Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Fishnish (A)	FS0427	Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Loch Ba	FS0429	Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Nevis A	FS0430	Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Nevis C (Ardintigh)	FS0546	Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Tanera	FS0549	Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Nevis B	FS0616	Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Loch Spelve (A)	FS0634	Scottish Sea Farms Ltd	FALSE	Existing	TRUE

WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Kerrera B	FS0663		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Fishnish (B)	FS0694		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Shuna	FS0695		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Kishorn A (South)	FS0709		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Lismore North	FS0745		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Kishorn B (North)	FS0804		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Fada	FS0858		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Walters (East Lismore)	FS0875		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Lismore West	FS0914		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Bloody Bay	FS0964		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Loch Creran (D)	FS1047		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Fiunary	FS0696		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
WS13/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Kishorn West	FS1274		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Bastaness	FS1279		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Bastavoe South	FS0074		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Belmont	FS0472		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Bow of Hascosay	FS0477		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Burkwell	FS0960		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Burrastow	FS0666		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Cloudin	FS0088		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Copister	FS1043		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Djubawick	FS0656		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Flaeshins	FS1275		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Hogan	FS1053		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Holm of Gruting	FS0166		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Mid Taing	FS0167		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Mula	FS/0896		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Stead of Aithness	FS0637		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Turness	FS0451		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Uyaea Isle	FS0382		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Vatsetter	FS/0407		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Vee Taing	FS/1057		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Winna Ness	FS0871		Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	North Sandwick	FS/0710	FreedomFood	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Balta Island	FS/0717	FreedomFood	Cooke Aquaculture Scotland	FALSE	New	TRUE
S01/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Kirkabister	FS 0802	FreedomFood	Cooke Aquaculture Scotland	FALSE	Existing	TRUE
WS22/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	West Scotland	01/10/2016 - 30/09/2017	Badcall Bay	FS0067		Northern Salmon Management Group	FALSE	Existing	TRUE
WS22/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	West Scotland	01/10/2016 - 30/09/2017	Calbha	FS0068		Northern Salmon Management Group	FALSE	Existing	TRUE
WS22/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	West Scotland	01/10/2016 - 30/09/2017	Drumbeg (Loch Dhrombaig)	FS0487		Northern Salmon Management Group	FALSE	Existing	TRUE
WS22/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	West Scotland	01/10/2016 - 30/09/2017	Loch A Chairn Bhain	FS0621		Northern Salmon Management Group	FALSE	Existing	TRUE
WS22/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	West Scotland	01/10/2016 - 30/09/2017	Loch Laxford	FS0065		Northern Salmon Management Group	FALSE	Existing	TRUE
WS22/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	West Scotland	01/10/2016 - 30/09/2017	Nedd	FS0129		Northern Salmon Management Group	FALSE	Existing	FALSE
WS22/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	West Scotland	01/10/2016 - 30/09/2017	Oldany	FS0933		Northern Salmon Management Group	FALSE	Existing	TRUE
WS22/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	West Scotland	01/10/2016 - 30/09/2017	Outer Bay (Loch Droighniche)	FS0671		Northern Salmon Management Group	FALSE	Existing	TRUE
WS22/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	West Scotland	01/10/2016 - 30/09/2017	Wester Ross Fisheries	FS0056		Northern Salmon Management Group	FALSE	Existing	TRUE
WS22/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	West Scotland	01/10/2016 - 30/09/2017	Wester Ross Fisheries	FS0057		Northern Salmon Management Group	FALSE	Existing	TRUE
WS22/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	West Scotland	01/10/2016 - 30/09/2017	Wester Ross Fisheries	FS0517		Northern Salmon Management Group	FALSE	Existing	TRUE
WS22/2017/D	Pending	01/02/2017 - 31/01/2018	Damage	West Scotland	01/10/2016 - 30/09/2017	Wester Ross Fisheries	FS0675		Northern Salmon Management Group	FALSE	New	TRUE
ONC11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Kempie Bay	FS0359		Scottish Sea Farms Orkney and Eriboll	FALSE	Existing	TRUE
ONC11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Sian Bay	FS0361		Scottish Sea Farms Orkney and Eriboll	FALSE	Existing	TRUE
ONC11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Puldrite	FS0813		Scottish Sea Farms Orkney and Eriboll	FALSE	Existing	TRUE
ONC11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Noust Geo	FS0823		Scottish Sea Farms Orkney and Eriboll	FALSE	Existing	TRUE
ONC11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Shapinsay	FS0860		Scottish Sea Farms Orkney and Eriboll	FALSE	Existing	TRUE
ONC11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Bring Head	FS1023		Scottish Sea Farms Orkney and Eriboll	FALSE	Existing	TRUE
ONC11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Toyness	FS1024		Scottish Sea Farms Orkney and Eriboll	FALSE	Existing	TRUE
ONC11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Wyre	FS1294		Scottish Sea Farms Orkney and Eriboll	FALSE	Existing	TRUE

ONC11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Orkney & North Coast	01/10/2016 - 30/09/2017	Westerbister	FS1305	FreedomFood	Scottish Sea Farms Orkney and Eriboll	FALSE	New	TRUE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Bight of Foraness	FS0292		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Bomlo	FS1076		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Cole Deep	FS0489		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	East of Papa Little	FS1278		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	East Voipe Laxfirth	FS0333		Hjaltland Seafarms Ltd	FALSE	Existing	FALSE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Gletness	FS1099		Hjaltland Seafarms Ltd	FALSE	Existing	FALSE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Goe of Valladale	FS1115		Hjaltland Seafarms Ltd	FALSE	Existing	FALSE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Hamar Sound	FS1114		Hjaltland Seafarms Ltd	FALSE	Existing	FALSE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Langa Isle (East)	FS0433		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Linga	FS1027		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	North Havra	FS0674		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	North Papa	FS0515		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	North Voe	FS0946		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Olna South	FS0764		Hjaltland Seafarms Ltd	FALSE	Existing	FALSE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Papa	FS0447		Hjaltland Seafarms Ltd	FALSE	Existing	FALSE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Poseidon	FS0408		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Score Holm	FS0948		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Setter Voe	FS0316		Hjaltland Seafarms Ltd	FALSE	Existing	FALSE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Spouse Holm	FS0785		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Swinning Voe 3	FS0903		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Taing of Railbrough Catfirth	FS0501		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	West of Burwick	FS0937	FreedomFood	Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
S07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Hammavoe	FS1144		Hjaltland Seafarms Ltd	FALSE	Existing	FALSE
WS23/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Corlarach	FS1287		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
WS23/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Gob na Hoe	FS1175		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
WS23/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Leinish	FS0800		Hjaltland Seafarms Ltd	FALSE	Existing	TRUE
WI08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Eughlam	FS1233		The Scottish Salmon Company	FALSE	Existing	TRUE
WI08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Gousam	FS0998		The Scottish Salmon Company	FALSE	Existing	TRUE
WI08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Kyles Vuia	FS0927		The Scottish Salmon Company	FALSE	Existing	TRUE
WI08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Taranaish	FS0752		The Scottish Salmon Company	FALSE	Existing	TRUE
WI08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Vacasay	FS1091		The Scottish Salmon Company	FALSE	Existing	TRUE
WI08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Vuia Beag	FS0411		The Scottish Salmon Company	FALSE	Existing	TRUE
WI08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Vuia Mor	FS1103		The Scottish Salmon Company	FALSE	Existing	TRUE
WI09/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Trilleachan Mor	FS1118		The Scottish Salmon Company	FALSE	Existing	TRUE
WS09/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Strome	FS0570		The Scottish Salmon Company	FALSE	Existing	TRUE
WI03/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Plocrapol	FS1256		The Scottish Salmon Company	FALSE	Existing	TRUE
WI03/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Reibinish	FS1277		The Scottish Salmon Company	FALSE	Existing	TRUE
WI03/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Scadabay	FS1293		The Scottish Salmon Company	FALSE	Existing	TRUE
WI10/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Gravir	FS0242		The Scottish Salmon Company	FALSE	Existing	TRUE
WS08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Portree	FS0708		The Scottish Salmon Company	FALSE	Existing	TRUE

WS07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Druimyeon Bay	FS0336	The Scottish Salmon Company	FALSE	Existing	TRUE
WS07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	East Tarbert Bay	FS1010	The Scottish Salmon Company	FALSE	Existing	TRUE
WS19/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Geasgill	FS0839	The Scottish Salmon Company	FALSE	Existing	TRUE
WS19/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Gometra	FS1267	The Scottish Salmon Company	FALSE	Existing	TRUE
WS19/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Inch Kenneth	FS0593	The Scottish Salmon Company	FALSE	Existing	TRUE
WS19/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Tuath	FS0617	The Scottish Salmon Company	FALSE	Existing	TRUE
WS18/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Aird	FS0594	The Scottish Salmon Company	FALSE	Existing	TRUE
WS18/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Kenmore	FS0050	The Scottish Salmon Company	FALSE	Existing	TRUE
WS18/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Sgeir Dughall	FS1262	The Scottish Salmon Company	FALSE	Existing	TRUE
WI04/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Baigh Chlann Neill (Grimsay)	FS0051	The Scottish Salmon Company	FALSE	Existing	TRUE
WI04/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Greanamul	FS1282	The Scottish Salmon Company	FALSE	Existing	TRUE
WI04/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Outer Eport	FS1254	The Scottish Salmon Company	FALSE	Existing	TRUE
WI04/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Petersport	FS0340	The Scottish Salmon Company	FALSE	Existing	TRUE
WI04/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Trenay	FS0796	The Scottish Salmon Company	FALSE	Existing	TRUE
WI04/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Uiskevagh	FS1255	The Scottish Salmon Company	FALSE	Existing	TRUE
WI04/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Maragay Mor	FS1304	NoScheme	FALSE	Existing	TRUE
SW07/2017/W	Pending	01/02/2017 - 31/01/2018	Health	South West Scotland	01/10/2016 - 30/09/2017	Eilean Grianain	FS1176	The Scottish Salmon Company	FALSE	Existing	TRUE
WS11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Inverawe (East) Etive 2	FS1067	Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Etive 3 (Port na Mine)	FS1101	Dawnfresh Farming Ltd	FALSE	Existing	TRUE
WS11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Etive 4	FS1112	Dawnfresh Farming Ltd	FALSE	Existing	TRUE
WS11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Ardchattan Bay	FS0197	Dawnfresh Farming Ltd	FALSE	Existing	TRUE
WS11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Etive 6	FS1288	Dawnfresh Farming Ltd	FALSE	Existing	TRUE
WS12/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Kames Bay (west)	FS0271	Kames Fish Farming Ltd	FALSE	Existing	TRUE
WS12/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Kames Bay (east)	FS0462	Kames Fish Farming Ltd	FALSE	Existing	TRUE
WS12/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Shuna Castle	FS0465	Kames Fish Farming Ltd	FALSE	Existing	TRUE
WS12/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Eilean Coltair	FS0777	Kames Fish Farming Ltd	FALSE	Existing	TRUE
WS12/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Shuna SW (Rubhan Trilleachain)	FS1290	Kames Fish Farming Ltd	FALSE	Existing	TRUE
S08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	South Sound	FS0183	Scottish Sea Farms Ltd	FALSE	Existing	TRUE
S08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Vidlin North	FS0608	Scottish Sea Farms Ltd	FALSE	Existing	TRUE

S08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Loura Voe	FS0699		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
S08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Holms Geo	FS0749		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
S08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Slocka Ronas Voe	FS1018		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
S08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Teisti Geo	FS1093		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
S08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Bight of Bellister, Dury Voe	FS1121		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
S08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Dury Voe	FS0033		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
S08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Foreholm	FS0936		Scottish Sea Farms Ltd	FALSE	Existing	TRUE
S08/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Shetland	01/10/2016 - 30/09/2017	Snarraness	FS0400	FreedomFood	Scottish Sea Farms Ltd	FALSE	Existing	TRUE
W14/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	HELLISAY	FS1261		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
W14/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Ornish	FS0531		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
W14/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	SEAFORTH	FS1042		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
W14/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	SOAY	FS0646		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
W14/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	STULAIGH	FS1259		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
W14/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Tabhaigh	FS1297		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
W14/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Scotasy	FS0502		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
W14/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	North Shore	FS1033		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
W14/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Raineach	FS1263		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
W14/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Marulaig Bay	FS0865		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
W14/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Groatay	FS1083		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
W14/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Grey Horse Channel	FS1122		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS06/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Bagh Dail Nan Cean	FS0805		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS06/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Polle Na Gille	FS0629		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS06/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Port Na Cro	FS0859		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	ARDINTOUL	FS0245		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Ardnish	FS0249		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	CAIRIDH	FS0252		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	CAMAS GLAS	FS0413		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	CREAG AN T SAGAI RT	FS0605		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	DUICH	FS0248		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Gorsten	FS0237		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	GRESHORNISH	FS0015		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	HARPORT	FS0247		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	INVASION BAY	FS0212		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	KINGAIRLOCH	FS0241		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	LEVEN	FS0244		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	LINNHE	FS0240		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	LOCHALSH	FS0016		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	MacLean's Nose	FS0599		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	MAOL BAN	FS0519		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Muck	FS1286		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	SCONSER	FS0602		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS21/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	Colonsay	FS1296	FreedomFood	Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
W11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Lochmaddy	FS0853		Loch Duart Ltd	FALSE	Existing	TRUE
W11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Sound of Harris	FS1260		Loch Duart Ltd	FALSE	Existing	TRUE
W11/2017/W	Pending	01/02/2017 - 31/01/2018	Health	Western Isles	01/10/2016 - 30/09/2017	Loch Carnan	FS1280		Loch Duart Ltd	FALSE	Existing	TRUE
WS16/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	ISLE EWE	FS1084		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS16/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	TORRIDON	FS0234		Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE
WS31/2017/W	Pending	01/02/2017 - 31/01/2018	Health	West Scotland	01/10/2016 - 30/09/2017	North Moine	FS0356	NoScheme	Marine Harvest (Scotland) Ltd	FALSE	Existing	TRUE

[illegible]

[illegible]

TRUE	01/05/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	16	FALSE
TRUE	01/09/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE	01/04/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	14	FALSE
TRUE	01/09/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	14	FALSE
TRUE	15/03/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	18	FALSE
FALSE	09/03/2016	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	8	FALSE
TRUE	04/03/2014	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	4	FALSE
TRUE	19/04/2016	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	29/10/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	27/04/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	12	FALSE
TRUE	25/02/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	6	FALSE
TRUE	08/10/2015	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	8	FALSE
TRUE	10/02/2016	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	14/01/2016	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	21/10/2015	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	8	FALSE
TRUE	27/01/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	8	FALSE
TRUE	29/08/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	12	FALSE
TRUE	09/04/2016	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	16	FALSE
TRUE	27/04/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	12	FALSE
TRUE	25/03/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	16	TRUE
TRUE	11/04/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE	10/04/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	9	FALSE
TRUE	25/11/2015	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	14	FALSE
TRUE	29/03/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	TRUE
TRUE	01/09/2015	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	10	TRUE
TRUE	04/05/2016	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	08/10/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	12	FALSE
TRUE	03/09/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	09/05/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	02/10/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	10	TRUE

TRUE		01/03/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE		20/03/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	TRUE
TRUE		23/03/2016	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE		19/08/2014	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	12	FALSE
TRUE		07/12/2015	TRUE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	14	FALSE
TRUE		04/10/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	16	FALSE
TRUE		06/09/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	6	TRUE
TRUE		08/01/2016	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	9	FALSE
TRUE		02/04/2016	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	9	FALSE
TRUE		23/09/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	9	FALSE
FALSE		04/02/2014	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	14	FALSE
TRUE		09/04/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	16	TRUE
TRUE		26/09/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	TRUE	10	FALSE
TRUE		10/04/2016	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	10	FALSE
TRUE		05/10/2013	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	10	FALSE
TRUE		17/02/2016	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE		25/02/2016	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	14	FALSE
TRUE		23/08/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	14	FALSE
TRUE		15/05/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	6	FALSE
TRUE		09/09/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE		14/02/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE		08/04/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	16	FALSE
TRUE		14/04/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	16	FALSE
TRUE		24/12/2014	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	14	TRUE
FALSE		27/08/2012	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	12	TRUE
TRUE		02/09/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	6	FALSE
TRUE		01/11/2013	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	6	FALSE
TRUE		06/10/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	12	FALSE
TRUE		02/09/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	10	FALSE
TRUE		19/09/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	14	FALSE
TRUE		28/03/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	16 x 90	FALSE
TRUE		15/08/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	12	FALSE
TRUE		06/07/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	12	FALSE
TRUE		30/07/2016	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	12	FALSE
		01/08/2017													16	FALSE
TRUE		30/07/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE		01/09/2014	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	42	TRUE
TRUE		01/09/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	42	TRUE
TRUE		12/09/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	8	TRUE
TRUE		01/11/2013	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	26	TRUE
TRUE		01/06/2014	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	48	TRUE
TRUE		01/04/2015	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE		01/09/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	8	TRUE
TRUE		06/10/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	60	TRUE
TRUE		13/10/2014	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	68	TRUE
TRUE		02/02/2015	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	TRUE
		01/10/2017													12	TRUE
TRUE		17/08/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	6	TRUE
TRUE		28/02/2016	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE		24/10/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE		25/10/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE		03/11/2014	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	12	FALSE
TRUE		28/10/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	10	FALSE
TRUE		25/04/2016	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE		10/09/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE

TRUE TRUE TRUE TRUE	17/10/2016													16	FALSE
	06/04/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	6	FALSE
	18/02/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	12	FALSE
	12/07/2016	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	12	FALSE
	08/09/2016	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	10	FALSE
TRUE TRUE TRUE TRUE TRUE	20/02/2016	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
	03/04/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
	16/04/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
	13/02/2016	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
	18/09/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	8	FALSE
TRUE TRUE	25/06/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
	19/02/2016	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE TRUE TRUE TRUE	18/05/2016	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
	01/03/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	11	FALSE
	12/10/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
	15/02/2016	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE TRUE TRUE	18/10/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
	24/10/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	14	FALSE
	15/09/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE	01/04/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	16	FALSE
TRUE	01/05/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	12	FALSE
TRUE	01/03/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	14	FALSE
TRUE	01/04/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	14	FALSE
TRUE	01/04/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	01/04/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	16	FALSE
TRUE	01/04/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	14	FALSE
TRUE	01/10/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	01/10/2016	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	14	FALSE
TRUE	01/05/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	14	FALSE
TRUE	01/09/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	16	FALSE
TRUE	01/09/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	16	FALSE
TRUE	01/08/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	10	FALSE
TRUE	01/06/2016	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	10	FALSE

TRUE	01/08/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	16	FALSE
TRUE	01/03/2015	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	12	FALSE
TRUE	01/10/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	12	FALSE
TRUE	01/10/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	16	FALSE
TRUE	01/10/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	8	FALSE
TRUE	01/11/2014	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	12	FALSE
TRUE	02/01/2016	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE	02/01/2016	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	6	FALSE
TRUE	01/03/2014	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	14	FALSE
TRUE	01/10/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	12	FALSE
TRUE	01/04/2016	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	14	FALSE
TRUE	01/11/2014	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	8	FALSE
TRUE	01/04/2016	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	TRUE
TRUE	01/07/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	7	FALSE
TRUE	01/04/2016	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	01/10/2016	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	10	FALSE
TRUE	10/11/2015	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	20	FALSE
TRUE	16/12/2014	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	6	FALSE
TRUE	10/08/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	10	FALSE
TRUE	22/09/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE	21/06/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	TRUE	6	FALSE
TRUE	21/04/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE	23/10/2014	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	6	FALSE
TRUE	01/10/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	6	FALSE
TRUE	17/11/2014	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	10	FALSE
TRUE	12/10/2012	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	6	FALSE
TRUE	22/06/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	12	FALSE
TRUE	26/09/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	14	FALSE
TRUE	10/03/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	20	FALSE

TRUE	30/04/2016	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	10	FALSE
TRUE	12/03/2016	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	11/04/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	14	FALSE
TRUE	19/03/2016	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	14	FALSE
TRUE	29/07/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE	12	FALSE
TRUE	04/05/2016	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE	26/03/2016	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE	11/09/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	8	FALSE
TRUE	03/02/2016	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	14	FALSE
TRUE	02/09/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	16/04/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	16	FALSE
TRUE	02/10/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	16	FALSE
TRUE	16/10/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	07/08/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	10	FALSE
TRUE	22/08/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	8	FALSE
TRUE	18/10/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	17	FALSE
TRUE	22/08/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	8	FALSE
TRUE	14/02/2016	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	06/05/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	14	FALSE
TRUE	06/10/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	14	FALSE
TRUE	07/10/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	10	FALSE
TRUE	25/10/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	16	FALSE
TRUE	17/07/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	8	TRUE
TRUE	12/02/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	01/11/2014	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	96	TRUE
TRUE	13/03/2016	TRUE	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	14/10/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	17	TRUE
TRUE	12/08/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	12	FALSE
TRUE	07/02/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	30/11/2015	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	24	TRUE
TRUE	26/03/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	06/06/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	14	FALSE
TRUE	27/09/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	18	TRUE
TRUE	15/05/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	8	FALSE
TRUE	23/01/2016	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	TRUE
TRUE	22/01/2016	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	22	TRUE
TRUE	03/02/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	10	FALSE
TRUE	01/10/2016	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	12	FALSE
TRUE	03/03/2016	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	24/03/2016	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE	09/10/2014	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	12	TRUE
TRUE	06/09/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	03/04/2014	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	20	TRUE
TRUE	15/04/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	20	TRUE
TRUE	11/04/2016	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	12	FALSE
TRUE	30/09/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
TRUE	02/11/2015	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	10	FALSE
FALSE	22/10/2015	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	12	FALSE

SquarePenDimension	SquarePenNetMaxDepth	CircularPenUsed	CircularPenCircumference	CircularPenNetMaxDepth	OtherPenUsed	OtherPenUsedText	NetsTensioned	SquarePenDownlines	SquareDownlinesMinWeight	SquareDownlinesMaxWeight
		TRUE	100m	10m	FALSE			TRUE		
		TRUE	100	10	FALSE			TRUE		
		TRUE	100	10	FALSE			TRUE		
		TRUE	80	10	FALSE			TRUE		
		TRUE	80	10	FALSE			TRUE		

TRUE	100	10	FALSE	TRUE

TRUE	80	10	FALSE	TRUE

TRUE	80	10	FALSE	TRUE

TRUE	100	10	FALSE	TRUE

TRUE	80	10	FALSE	TRUE

			TRUE	100	10	FALSE	TRUE						
			TRUE	100	10	FALSE	TRUE						
			TRUE	100	10	FALSE	TRUE						
			TRUE	80	10	FALSE	TRUE						
			TRUE	80	8 m	FALSE	TRUE						
			TRUE	50m	8	FALSE	TRUE						
			TRUE	90	8	FALSE	TRUE						
			TRUE	90	8m	FALSE	TRUE						
			TRUE	100	6	FALSE	TRUE						
			TRUE	90	10	FALSE	TRUE						
			TRUE	90	8	FALSE	TRUE						
			TRUE	70	6	FALSE	TRUE						
			TRUE	70	8m	FALSE	TRUE						
			TRUE	80	8	FALSE	TRUE						
			TRUE	70	8m	FALSE	TRUE						
			TRUE	90	8	FALSE	TRUE						
			TRUE	90	10	FALSE	TRUE						
			TRUE	80	8	FALSE	TRUE						
			TRUE	90	8	FALSE	TRUE						
24	10		TRUE	80	10	FALSE	TRUE	40	7	7			
			TRUE	80	10	FALSE	TRUE						
			TRUE	80	14	FALSE	TRUE						
			TRUE	80	14	FALSE	TRUE						
24	15		FALSE			FALSE	TRUE	40	4.3	4.3			
12	7		FALSE			FALSE	TRUE	4	2.1	2.1			
			TRUE	80	14	FALSE	TRUE						
			TRUE	80	14	FALSE	TRUE						
			TRUE	80	10	FALSE	TRUE						
			TRUE	80	14	FALSE	TRUE						
24	10		FALSE			FALSE	TRUE	20	3.7	3.7			

24	8	TRUE	80	14	FALSE	TRUE	40	9.4	9.4
		FALSE			FALSE	TRUE			
		TRUE	80	15	FALSE	TRUE			
		TRUE	80	14	FALSE	TRUE			
		TRUE	80	14	FALSE	TRUE			
27	9	TRUE	80	14	FALSE	TRUE	40	3.33	3.33
		FALSE			FALSE	TRUE			
		TRUE	80	15	FALSE	TRUE			
		TRUE	80	14	FALSE	TRUE			
		TRUE	80	14	FALSE	TRUE			
24	16	FALSE			FALSE	TRUE	40	5	8
		TRUE	100	14	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	90	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	100	8	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
20 x 20 and 25x25 20 x 20	8 10	FALSE			FALSE	TRUE	20	10	20
		TRUE	2	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	120	12	FALSE	TRUE			
		TRUE	90	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	90	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
15m x 15m 15m x 15m 15m x 15m 12m x 24m x 24m and also 14m x 15m x 15m 15m x 15m	15 15 15 15m and 24m 15	TRUE	120	8	FALSE	TRUE	16	20	20
		TRUE	80	10	FALSE	TRUE			
		FALSE			FALSE	TRUE			
		FALSE			FALSE	TRUE			
		FALSE			FALSE	TRUE			
		FALSE			FALSE	TRUE			
		FALSE			FALSE	TRUE			
		FALSE			FALSE	TRUE			
		FALSE			FALSE	TRUE			
		FALSE			FALSE	TRUE			
24m x 24m 12.2 x 12.2 and 15 x 15 12.2 x 12.2 15m x 15m	7 9m and 10m 9m 10	TRUE	2	15	FALSE	TRUE	20	20	40
		FALSE			FALSE	TRUE			
		FALSE			FALSE	TRUE			
		FALSE			FALSE	TRUE			
		FALSE			FALSE	TRUE			
15m x 15m 24m x 24m	10 9	FALSE			FALSE	TRUE	16	4	6
		FALSE			FALSE	TRUE			
		TRUE	80	12	FALSE	TRUE			
		TRUE	80	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	80	10	FALSE	TRUE			
		TRUE	80	15	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			
		TRUE	100	10	FALSE	TRUE			

TRUE	100	10	FALSE	TRUE
TRUE	90	23	FALSE	TRUE
TRUE	100	23	FALSE	TRUE
TRUE	90	23	FALSE	TRUE
TRUE	90	23	FALSE	TRUE
TRUE	90	23	FALSE	TRUE
TRUE	100	23	FALSE	TRUE
TRUE	90	23	FALSE	TRUE
TRUE	90	23	FALSE	TRUE
TRUE	90	23	FALSE	TRUE
TRUE	100	23	FALSE	TRUE
TRUE	90	23	FALSE	TRUE
TRUE	90	23	FALSE	TRUE
TRUE	100	23	FALSE	TRUE
TRUE	90	23	FALSE	TRUE
TRUE	90	23	FALSE	TRUE
TRUE	90	23	FALSE	TRUE
TRUE	80	23	FALSE	TRUE
TRUE	80	23	FALSE	TRUE
TRUE	100	12	FALSE	TRUE
TRUE	90	8	FALSE	TRUE
TRUE	90	10	FALSE	TRUE
TRUE	90	10	FALSE	TRUE
TRUE	90	10	FALSE	TRUE
TRUE	90	8	FALSE	TRUE
TRUE	90	12	FALSE	TRUE
TRUE	90	12	FALSE	TRUE
TRUE	100	10	FALSE	TRUE
TRUE	70	10	FALSE	TRUE
TRUE	100	10	FALSE	TRUE
TRUE	100	10	FALSE	TRUE
TRUE	120	15	FALSE	TRUE
TRUE	120	10	FALSE	TRUE

6 x 24

10

TRUE	100	10	FALSE	TRUE				
TRUE	80	5	FALSE	TRUE				
TRUE	100	10	FALSE	TRUE				
TRUE	100	10	FALSE	TRUE				
TRUE	80	10	FALSE	TRUE				
TRUE	80	10	FALSE	TRUE				
TRUE	100	10	FALSE	TRUE				
TRUE	90	10	FALSE	TRUE				
TRUE	100	12	FALSE	TRUE				
TRUE	40	6	FALSE	TRUE				
TRUE	100	10	FALSE	TRUE				
TRUE	100	8	FALSE	TRUE				
FALSE			FALSE	TRUE	40	40	40	
TRUE	70	10	FALSE	TRUE				
TRUE	70	10	FALSE	TRUE				
TRUE	120	12	FALSE	TRUE				
TRUE	100 and 120	16	FALSE	TRUE				
TRUE	60	10	FALSE	TRUE				
TRUE	70	10	FALSE	TRUE				
TRUE	80	17.5	FALSE	TRUE				
TRUE	60	10	FALSE	TRUE				
TRUE	80	17.5	FALSE	TRUE				
TRUE	70	12	FALSE	TRUE				
TRUE	70	5	FALSE	TRUE				
TRUE	70	12	FALSE	TRUE				
TRUE	70	12	FALSE	TRUE				
TRUE	100	16	FALSE	TRUE				
TRUE	80	15	FALSE	TRUE				
TRUE	80	15	FALSE	TRUE				

			TRUE	80	15	FALSE	TRUE			
			TRUE	80	15	FALSE	TRUE			
			TRUE	80	15	FALSE	TRUE			
			TRUE	80	15	FALSE	TRUE			
			TRUE	100	15	FALSE	TRUE			
			TRUE	80	15	FALSE	TRUE			
			TRUE	100	15	FALSE	TRUE			
			TRUE	100	10	FALSE	TRUE			
			TRUE	120	12	FALSE	TRUE			
			TRUE	100	16	FALSE	TRUE			
			TRUE	120	16	FALSE	TRUE			
			TRUE	100	14	FALSE	TRUE			
			TRUE	100	16	FALSE	TRUE			
			TRUE	120	16	FALSE	TRUE			
			TRUE	120	16	FALSE	TRUE			
			TRUE	120	16	FALSE	TRUE			
			TRUE	8	16	FALSE	TRUE			
			TRUE	120	16	FALSE	TRUE			
			TRUE	100	16	FALSE	TRUE			
			TRUE	100	16	FALSE	TRUE			
			TRUE	120	16	FALSE	TRUE			
			TRUE	100	16	FALSE	TRUE			
24 x 24	14		FALSE			FALSE	TRUE	4	80	80
			TRUE	120	16	FALSE	TRUE			
84 (5x5) 14 (16 x16)	(5x5) = 5m (16x16) = 9m		FALSE			FALSE	TRUE	8	8	8
			TRUE	100	16	FALSE	TRUE			
24 x 24	15		FALSE			FALSE	TRUE	4	60	60
			TRUE	120	16	FALSE	TRUE			
			TRUE	100	16	FALSE	TRUE			
24x24	15		FALSE			FALSE	TRUE	4	80	80
			TRUE	100	16	FALSE	TRUE			
			TRUE	100	16	FALSE	TRUE			
24 x 24	15		FALSE			FALSE	TRUE	4	80	80
			TRUE	100	14	FALSE	TRUE			
24 x 24	15		FALSE			FALSE	TRUE	4	50	50
24x24	15		FALSE			FALSE	TRUE	4	80	80
			TRUE	120	16	FALSE	TRUE			
			TRUE	120	16	FALSE	TRUE			
			TRUE	100	16	FALSE	TRUE			
			TRUE	120	16	FALSE	TRUE			
24 x 24	15		FALSE			FALSE	TRUE	4	50	50
			TRUE	120	16	FALSE	TRUE			
24m x 24m	10m		TRUE	70m	8m	FALSE	TRUE	20	40	40
24m x 24m	10m		FALSE			FALSE	TRUE	20	40	40
			TRUE	70M	10M	FALSE	TRUE			
			TRUE	100	16	FALSE	TRUE			
			TRUE	120	16	FALSE	TRUE			
			TRUE	80	11	FALSE	TRUE			

SquareDownlinesAverageWeight

CircularPenTensionMethod

CircularPenTensionWeight

CircularPenTensionMethodOther

CircularAdditionalWeight

CircularAdditionalWeightValue

NetsNotTensionedReason

MortRemovalNetLift

MortRemovalNetLift_Frequency

Normal

40.00

TRUE

40

FALSE

Normal

40

TRUE

40

FALSE

Normal

40

TRUE

40

FALSE

Normal

40

TRUE

40

FALSE

Normal

40

TRUE

40

FALSE

Normal	40	TRUE	40	FALSE

Normal	40	TRUE	40	FALSE

Normal	40	TRUE	40	FALSE

Normal	40	TRUE	40	FALSE

Normal	40	TRUE	40	FALSE

	Normal	40		TRUE	40	FALSE
	Normal	40		TRUE	40	FALSE
	Normal	40		TRUE	40	FALSE
	Normal	40		TRUE	40	FALSE
	Normal	3200		TRUE	150	FALSE
	Other		Net Weights (20 x 35kg per Cage)	TRUE	70	FALSE
	Other		Net weights (36 x 35kg)	TRUE	70	FALSE
	Other		36 x 70kg net weights	TRUE	140	FALSE
	Normal	3200		TRUE	50	FALSE
	Other		36 x 70kg net weights	TRUE	140	FALSE
	Other		24 net weights x 70k each	TRUE	140	FALSE
	Other		Net weights 28 x 35kg	TRUE	70	FALSE
	Other		Net weights 24 x 70kg	TRUE	70	FALSE
	Normal	3600		TRUE	150	FALSE
	Other		Net Weights 28 x 35kg	TRUE	70	FALSE
	Normal	3600		TRUE	140	FALSE
	Normal	3600		TRUE	70	FALSE
	Other		Net weights 32 x 70kg per cage	TRUE	150	FALSE
	Normal	3500kg		TRUE	120	FALSE
70	Other		chain link weights	TRUE	75	FALSE
	Other		chain link weights	TRUE	50	FALSE
	Other		chain link weights	TRUE	36	FALSE
	Other		chain link weights	TRUE	50	FALSE
65						FALSE
15						FALSE
	Other		chain link weights	TRUE	50	FALSE
	Other		chain link weights	TRUE	50	FALSE
	Other		chain link weights	TRUE	50	FALSE
37	Other		chain link weights	TRUE	50	FALSE

75	Other		chain link weights	TRUE	50	FALSE	
						FALSE	
	Other		chain link weights	TRUE	40	FALSE	
	Other		chain link weights	TRUE	50	FALSE	
	Other		chain link weights	TRUE	40	FALSE	
30	Other		chain link weights	TRUE	50	FALSE	
						FALSE	
	Other		chain link weights	TRUE	40	FALSE	
	Other		chain link weights	TRUE	60	FALSE	
	Other		chain link weights	TRUE	50	FALSE	
80 and 135						FALSE	
	Other		weight pockets (where weights are sown into the net)	TRUE	120	FALSE	
	Normal	3600		TRUE	140	FALSE	
	Normal	3200		TRUE	140	FALSE	
	Normal	3600		TRUE	140	FALSE	
	Normal	3600		TRUE	140	FALSE	
	Normal	3600		TRUE	140	FALSE	
	Other		36 x 35kg weights per cage	TRUE	70	FALSE	
	Other		Net weights 36 x 35 Kg	TRUE	70	FALSE	
	Normal	3600		TRUE	140	FALSE	
	Normal	3600		TRUE	140	FALSE	
	Normal	3600		TRUE	140	FALSE	
70kg 70kg						FALSE	
	Normal	3200		TRUE	70	FALSE	
	Other		36 x 35kg Net weights per cage	TRUE	70	FALSE	
	Normal	3600		TRUE	140	FALSE	
	Normal	4320		TRUE	140	FALSE	
	Normal	3200		TRUE	140	FALSE	
	Normal	3600		TRUE	140	FALSE	
	Normal	3200		TRUE	140	FALSE	
	Normal	3600		TRUE	140	FALSE	
	Normal	3600		TRUE	140	FALSE	
	Normal	3600		TRUE	70	FALSE	
	Normal	3200		TRUE	120	FALSE	
20 20 20 30 20						FALSE	
	Normal	3200				FALSE	
	Normal	3200		TRUE	120	FALSE	
						FALSE	
						FALSE	
						FALSE	
						TRUE	Daily
						TRUE	Daily
30 5 5 5	Normal	40		TRUE	40	FALSE	
						FALSE	
						FALSE	
						FALSE	
						FALSE	
5 50						FALSE	
						FALSE	
	Normal	2000		TRUE	80	FALSE	
	Normal	4000		TRUE	80	FALSE	
						FALSE	
	Normal	5000		TRUE	80	FALSE	
	Normal	2500		TRUE	80	FALSE	
						FALSE	
	Normal	2000		TRUE	80	FALSE	
	Other		Individual cage weights x40 @ 50kg each = 2000kg	TRUE	80	FALSE	
	Normal	5000		TRUE	80	FALSE	

Normal	5000				FALSE
Normal	1900	TRUE	120	FALSE	FALSE
Normal	1900	TRUE	120	FALSE	FALSE
Normal	1900	TRUE	120	FALSE	FALSE
Normal	1900	TRUE	120	FALSE	FALSE
Normal	1900	TRUE	120	FALSE	FALSE
Normal	1900	TRUE	120	FALSE	FALSE
Normal	1900	TRUE	120	FALSE	FALSE
Normal	1900	TRUE	120	FALSE	FALSE
Normal	1900	TRUE	120	FALSE	FALSE
Normal	1900	TRUE	120	FALSE	FALSE
Normal	1900	TRUE	120	FALSE	FALSE
Normal	1900	TRUE	120	FALSE	FALSE
Normal	1900	TRUE	120	FALSE	FALSE
Normal	1900	TRUE	120	FALSE	FALSE
Normal	1900	TRUE	120	FALSE	FALSE
Normal	1900	TRUE	120	FALSE	FALSE
Normal	40	TRUE	40	FALSE	FALSE
Normal	40	TRUE	40	FALSE	FALSE
Normal	40	TRUE	40	FALSE	FALSE
Normal	40	TRUE	40	FALSE	FALSE
Normal	40	TRUE	40	FALSE	FALSE
Normal	40	TRUE	40	FALSE	FALSE
Normal	40	TRUE	40	FALSE	FALSE
Normal	40	TRUE	40	FALSE	FALSE
Normal	40	TRUE	40	FALSE	FALSE
Normal	40	TRUE	40	FALSE	FALSE
Normal	40	TRUE	40	FALSE	FALSE

	Normal	480.0		TRUE	30	FALSE	
	Normal	480.00		TRUE	30	FALSE	
	Normal	480.0		TRUE	30	FALSE	
	Normal	480.0		TRUE	30	FALSE	
	Normal	1440.0		TRUE	30	FALSE	
	Normal	480.0		TRUE	30	FALSE	
	Normal	1200.0		TRUE	30	FALSE	
	Normal	800.0		TRUE	30	FALSE	
	Normal	84		TRUE	100	TRUE	Weekly
	Normal	75		TRUE	75	FALSE	
	Normal	80		FALSE		FALSE	
	Normal	175		FALSE		FALSE	
	Normal	80		TRUE	90	TRUE	Daily
	Normal	75		TRUE	75	FALSE	
	Normal	80		FALSE		FALSE	
	Normal	75		FALSE		FALSE	
	Normal	80		FALSE		FALSE	
	Normal	85		TRUE	85	FALSE	
	Normal	75		TRUE	75	FALSE	
	Normal	75		TRUE	75	FALSE	
	Normal	90		TRUE	150	FALSE	
	Normal	90		TRUE	150	FALSE	
80						FALSE	
8	Normal	3000		FALSE		FALSE	
						FALSE	
60	Normal	3000		TRUE	500	TRUE	Daily
						FALSE	
	Normal	2000		FALSE		FALSE	
	Normal	85		FALSE		FALSE	
80						FALSE	
	Normal	3000		FALSE		FALSE	
	Normal	80		FALSE		FALSE	
80						FALSE	
						FALSE	
50	Normal	10x 50		FALSE		FALSE	
80						FALSE	
						FALSE	
	Normal	4000		FALSE		FALSE	
	Normal	80		TRUE	120	FALSE	
	Normal	3000		FALSE		FALSE	
	Normal	4000		FALSE		FALSE	
50						FALSE	
	Normal	9000		TRUE	300	FALSE	
800	Other		40KG WEIGHTS	TRUE	50	FALSE	
800						FALSE	
	Other		40 KG WEIGHTS X 18	TRUE	50	FALSE	
	Normal	60		FALSE		FALSE	
	Normal	50		FALSE		FALSE	
	Normal	1000		TRUE	100	FALSE	

MortRemovalNetLiftFrequencyOther MortRemovalDeadsock MortRemovalDeadsock_Frequency MortRemovalDeadsockFrequencyOther MortRemovalDiver MortRemovalDiver_Frequency MortRemovalDiverFrequencyOther MortRemovalHydraulic MortRemovalHydraulic_Frequency

FALSE

TRUE

Weekly

TRUE

Daily

TRUE

Daily

TRUE

Weekly

FALSE

FALSE

TRUE

Weekly

TRUE

Daily

TRUE

Daily

TRUE

Weekly

FALSE

FALSE

TRUE

Weekly

TRUE

Daily

FALSE

TRUE Weekly

TRUE Daily

FALSE

TRUE Weekly

TRUE Daily

FALSE

TRUE Weekly

TRUE Daily

TRUE Daily

TRUE Weekly

FALSE

TRUE Daily

TRUE Weekly

FALSE

[illegible]

TRUE	Daily	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
TRUE	Weekly	TRUE	Weekly	FALSE	
FALSE		TRUE	Weekly	TRUE	Daily
TRUE	Daily	TRUE	Weekly	FALSE	
FALSE		TRUE	Weekly	TRUE	Daily
FALSE		TRUE	Weekly	TRUE	Daily
FALSE		TRUE	Weekly	TRUE	Daily
TRUE	Daily	TRUE	Weekly	FALSE	
FALSE		TRUE	Weekly	TRUE	Daily
TRUE	Daily	TRUE	Weekly	FALSE	
FALSE		TRUE	Weekly	TRUE	Daily
TRUE	Daily	TRUE	Weekly	FALSE	
FALSE		TRUE	Weekly	TRUE	Daily
FALSE		TRUE	Weekly	TRUE	Daily
FALSE		TRUE	Weekly	TRUE	Daily
FALSE		TRUE	Weekly	TRUE	Daily
FALSE		TRUE	Weekly	TRUE	Daily

TRUE	Ad-Hoc			FALSE		FALSE	
TRUE	Ad-Hoc			FALSE		FALSE	
TRUE	Ad-Hoc			FALSE		FALSE	
TRUE	Ad-Hoc			FALSE		FALSE	
TRUE	Ad-Hoc			FALSE		FALSE	
TRUE	Ad-Hoc			FALSE		FALSE	
TRUE	Ad-Hoc			FALSE		FALSE	
FALSE				TRUE	Ad-Hoc	FALSE	
TRUE	Other	3 x weekly		TRUE	Ad-Hoc	FALSE	
FALSE				TRUE	Ad-Hoc	TRUE	Daily
FALSE				FALSE		TRUE	Daily
FALSE				TRUE	Ad-Hoc	FALSE	
FALSE				TRUE	Ad-Hoc	TRUE	Daily
FALSE				TRUE	Ad-Hoc	TRUE	Daily
FALSE				TRUE	Ad-Hoc	TRUE	Daily
FALSE				TRUE	Ad-Hoc	TRUE	Daily
FALSE				TRUE	Ad-Hoc	TRUE	Daily
TRUE	Daily			TRUE	Ad-Hoc	FALSE	
TRUE	Daily			FALSE		FALSE	
TRUE	Daily			FALSE		FALSE	
TRUE	Daily			FALSE		FALSE	
FALSE				TRUE	Ad-Hoc	TRUE	Daily
TRUE	Daily			FALSE		FALSE	
FALSE				FALSE		TRUE	Daily
TRUE	Daily			FALSE		FALSE	
FALSE				TRUE	Ad-Hoc	TRUE	Daily
FALSE				FALSE		TRUE	Daily
TRUE	Daily			TRUE	Ad-Hoc	FALSE	
FALSE				TRUE	Ad-Hoc	TRUE	Daily
TRUE	Daily			FALSE		FALSE	
TRUE	Daily			TRUE	Ad-Hoc	FALSE	
FALSE				TRUE	Ad-Hoc	TRUE	Daily
TRUE	Daily			TRUE	Ad-Hoc	FALSE	
FALSE				FALSE		TRUE	Daily
TRUE	Daily			TRUE	Ad-Hoc	FALSE	
FALSE				TRUE	Ad-Hoc	TRUE	Daily
FALSE				TRUE	Ad-Hoc	TRUE	Daily
TRUE	Daily			TRUE	Ad-Hoc	FALSE	
TRUE	Daily			TRUE	Monthly	FALSE	
TRUE	Daily			TRUE	Ad-Hoc	FALSE	
TRUE	Daily			TRUE	Monthly	FALSE	
FALSE				FALSE		TRUE	Daily
FALSE				FALSE		TRUE	Daily
FALSE				TRUE	Weekly	FALSE	

MortRemovalHydraulicFrequencyOther	MortRemovalOther	MortRemovalOtherText	MortRemovalOther_Frequency	MortRemovalOtherFrequencyOther	NetDamageCheckFrequency

FALSE					

					Weekly

FALSE					

					Weekly

FALSE					

					Daily

FALSE					

					Weekly

FALSE					

					Weekly

FALSE

Weekly

FALSE

Weekly

FALSE

Weekly

FALSE

Weekly

FALSE

Weekly

[illegible]

FALSE				Monthly
FALSE				Monthly
FALSE				Monthly
FALSE				Other
FALSE				Monthly
FALSE				Other
FALSE				Monthly
FALSE				Monthly
FALSE				Monthly
FALSE				Monthly
FALSE				Monthly
FALSE				Other
TRUE	Dead baskets checked daily by camera and lifted as and when required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked dailt by camera and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera and lifted as required	Weekly		Weekly
TRUE	Dead baslets Checked daily by Camera and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera when stocked and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera and lifted as and when required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera and lifted as required	Weekly		Weekly
TRUE	Dead baskets checked daily by camera and lifted as required	Daily		Weekly
TRUE	Dead baskets checked daily by camera and lifted as required	Daily		Weekly
FALSE				Daily
FALSE				Daily
FALSE				Daily
FALSE				Daily
FALSE				Daily
FALSE				Daily
FALSE				Daily
FALSE				Daily
FALSE				Daily
TRUE	Dead sock with lifting rope on steels and Mort rings on woods.	Other	Twice weekly or more as required.	Other
TRUE	Mort rings.	Other	Twice weekly or more as required.	Other
FALSE				Other
FALSE				Other
FALSE				Weekly
TRUE	Underwater Cameras	Daily		Weekly
TRUE	Underwater cameras	Daily		Weekly
TRUE	Underwater Camera	Daily		Weekly
TRUE	Underwater camera	Daily		Weekly
TRUE	Underwater cameras	Daily		Weekly
TRUE	Underwater cameras checked daily	Daily		Weekly
TRUE	Underwater Cameras	Daily		Weekly

FALSE
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FALSE				Weekly
FALSE				Weekly
FALSE				Weekly
FALSE				Weekly
FALSE				Weekly
FALSE				Weekly
FALSE				Weekly
FALSE				Weekly
FALSE				Daily
FALSE				Weekly
FALSE				Weekly
FALSE				Weekly
FALSE				Weekly
FALSE				Weekly
FALSE				Weekly
FALSE				Weekly
FALSE				Weekly
FALSE				Ad-Hoc
FALSE				Other
TRUE	Lift up	Other	minimum 2 x per week	Monthly
TRUE	Lift up	Other	minimum 2 x per week	Monthly
FALSE				Monthly
TRUE	lift up	Other	minimum 2 x per week	Monthly
FALSE				Weekly
FALSE				Weekly
FALSE				Weekly
FALSE				Weekly
FALSE				Ad-Hoc
FALSE				Ad-Hoc

mort basket

Daily

Weekly

[illegible]

TRUE	2 ACE Aquatec US3	16	194 to 197	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE
FALSE																
TRUE	2 ACE Aquatec US3	16	194 to 197	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE
TRUE	2 ACE Aquatec	12	195 to 197	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
TRUE	10 Ace Aquatec	10-20KHz	195dbre1upa@1m	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
FALSE																
FALSE																
FALSE																
FALSE																
FALSE																
FALSE																
TRUE	10 Ace Aquatec	10-20KHz	195dbre1upa@1m	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
FALSE																
FALSE																
FALSE																
FALSE																
TRUE	8 Mohn Aqua Airmar DB plus 11	10	197dB	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE
TRUE	10 Mohn Aqua Airmar DB11	10	197	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE
TRUE	9 Airmar DB2	10	197	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	14 Mohn Aqua Airmar DB II	10	197	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	8 Mohn Aqua Airmar DBII	10	197	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
FALSE																
TRUE	12 Mohn Aqua airmar DB II	10	197	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	12 Mohn Aqua Airmar DBII	10	197	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE
TRUE	24 Mohn Aqua MAG Seal Deterrent	10	197	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	12 Mohn Aqua Airmar DBII	10	197	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	10 Airmar DBII	10	197	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE

[illegible]

[illegible]

TRUE	4 ACE Aquatec US3	14	195 to 197	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
TRUE	2 ACE Aquatec US3	14	195 to 197	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
TRUE	12 OTAQ SF3	10	196	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
TRUE	15 ACE Aquatec US3	12	195 to 197	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE
TRUE	3 Airmar bb PLUS 11	1.8 per channel	198	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
TRUE	12 OTAQ SF3	10	196	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
TRUE	2 ACE Aquatec US3	12	195 to 197	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE
TRUE	2 ACE Aquatec US3	12	195 to 197	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE
TRUE FALSE	2 ACE Aquatec US3	12	195 to 197	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
TRUE	4 Airmar db 11 plus	6.5	195 to 198	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE
TRUE	2 Airmar db11 plus	6.5	195 to 198	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
TRUE	14 OTAQ SealFence	20	195	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
TRUE	2 Airmar db 11 plus	6.5	198	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
TRUE	4 Airmar db11 plus	6.5	198	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE
FALSE TRUE FALSE FALSE FALSE	2 Terecos DSMS4	9.3	135-178	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	6 Mohn Aqua	10.00	192 dB re 1uPA@ 1m	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
TRUE	10 Mohn Aqua	10.00	192 dB re 1 uPA@1m	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE
TRUE	1 DSMS4 Terecos	5	179	TRUE	TRUE	FALSE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE
TRUE	1 Terecos DSMS4	5	179	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE
TRUE	1 Terecos DSMS4	5	179	FALSE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
TRUE	1 Terecos DSMS 4	9.3	179	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
TRUE	2 Terecos DSMS 4	9.3	135 – 178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	14 Mohn Aqua Mag	10	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE
TRUE	20 Mohn Aqua MAG	10	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE

every time the divers are at the site and also a full check monthly

2 weekly

TRUE	10 Mohn Aqua MAG	10	198	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	12 Ace Aquates US3	12	195-197	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	14 Mohn aqua MAG	10	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE
TRUE	14 Mohn aqua MAG	10	198	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	12 Ace Aquatec US3	12	195 to 197	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	10 Mohn aqua MAG	10	198	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	10 Mohn aqua MAG	10	198	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	8 Ace Aquatec US3	12	195 to 197	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE
TRUE	2 mon aqua airmar II	10	135-178	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	2 ACE AQUATEC	10	135-180	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	2 TERCOS DSMS-4	9.3	135-178	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
FALSE																		
TRUE	16 Airmar	10	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	4 Terecos DSMS-4	9.3	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	TRUE
TRUE	2 Terecos DSMS-4	9.3	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	6 Terecos DSMS-4	9.3	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE
TRUE	2 Terecos DSMS4	9.3	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	4 Terecos DSMS4	9.3	135-178	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	14 Terecos DSMS4	9.3	135-178	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	7 Terecos DSMS 4	9.3	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	2 Terecos DSMS 4	9.3	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE
TRUE	2 Terecos DSMS 4	9.3	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE
TRUE	2 Terecos DSMS 4	9.3	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE
TRUE	6 Terecos DSMS 4	9.3	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	2 Terecos DSMS 4	9.3	135-178	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE
TRUE	8 Terecos DSMS 4	9.3	135-178	TRUE	TRUE	TRUE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	20 Airmar	10	0	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE
TRUE	4 Terecos DSMS 4	9.3	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE
TRUE	8 Terecos DSMS 4	9.3	135-178	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE
TRUE	12 Terecos DSMS 4	9.3	135-178	FALSE	TRUE	TRUE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	12 Terecos DSMS 4	9.3	135-180	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
FALSE																		
TRUE	3 Terecos DSMS 4	9.3	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE
TRUE	1 Terecos DSMS4	9.3	135-178	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	TRUE
TRUE	2 Terecos DSMS 4	9.3	135-178	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	2 Terecos DSMS 4	9.3	135-178	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
FALSE																		
TRUE	1 Terecos DSMS4	9.3	135-178	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE
TRUE	8 Terecos DSMS 4	9.3	135-178	TRUE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
FALSE																		
FALSE	12 Terecos DSMS 4	9.3	135-178	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
FALSE																		
TRUE	20 AIRMAR / MAG - MOHN AQUA GROUP	10	198	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE
TRUE	14 AIRMAR / MAG - MOHN AQUA GROUP	10	198	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	12 AIRMAR / MAG - MOHN AQUA GROUP	10	198	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	12 MON AQUA AIRMAR II	10	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	10 Terecos DSMS4	9.3	135-178	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
TRUE	2 Terecos DSMS 4	9.3	135-178	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE

ADDTriggerFishSize ADDTriggerFishBehaviour ADDTriggerSealSpot ADDTriggerSealAttack ADDTriggerOther ADDTriggerOtherText ADDEffectiveness

FALSE FALSE TRUE TRUE FALSE 5

FALSE FALSE TRUE TRUE FALSE 5

5

FALSE FALSE TRUE TRUE FALSE 5

FALSE FALSE TRUE TRUE FALSE 5

FALSE	FALSE	TRUE	TRUE	FALSE	5

FALSE	FALSE	TRUE	TRUE	FALSE	5

FALSE	FALSE	TRUE	TRUE	FALSE	5

FALSE	FALSE	TRUE	TRUE	FALSE	5

FALSE	FALSE	TRUE	TRUE	FALSE	5

FALSE	FALSE	TRUE	TRUE	FALSE	5

FALSE	FALSE	TRUE	TRUE	FALSE	5

FALSE	FALSE	TRUE	TRUE	FALSE	5
					4

					4

FALSE	FALSE	TRUE	TRUE	FALSE	4
					4
					4
					3
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FALSE FALSE	FALSE FALSE	FALSE TRUE	FALSE FALSE	FALSE FALSE

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FALSE	FALSE	FALSE	FALSE	FALSE

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[illegible]

FALSE	FALSE	TRUE	TRUE	FALSE	5

FALSE	FALSE	TRUE	TRUE	FALSE	5
FALSE	FALSE	TRUE	TRUE	FALSE	5
					5

FALSE	FALSE	TRUE	TRUE	FALSE	5
FALSE	FALSE	TRUE	TRUE	FALSE	5
FALSE	FALSE	TRUE	TRUE	FALSE	5
FALSE	FALSE	TRUE	TRUE	FALSE	5
FALSE	FALSE	TRUE	FALSE	FALSE	5

FALSE	FALSE	TRUE	TRUE	FALSE	5
FALSE	FALSE	TRUE	TRUE	FALSE	5
FALSE	FALSE	TRUE	TRUE	FALSE	5
FALSE	FALSE	TRUE	TRUE	FALSE	5
FALSE	FALSE	TRUE	TRUE	FALSE	5

					5

FALSE	FALSE	TRUE	FALSE	FALSE	3
FALSE	FALSE	TRUE	TRUE	FALSE	3
FALSE	FALSE	TRUE	TRUE	FALSE	2
FALSE	FALSE	TRUE	TRUE	FALSE	2
FALSE	FALSE	TRUE	FALSE	FALSE	2
FALSE	FALSE	TRUE	FALSE	FALSE	3
					3
					5
					3
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FALSE	FALSE	TRUE	TRUE	FALSE	4
					3
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					5
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					4
					4
FALSE	FALSE	TRUE	TRUE	FALSE	5
					3
FALSE	FALSE	FALSE	FALSE	FALSE	3
					4
					4
					4
					4
					3
FALSE	FALSE	TRUE	FALSE	FALSE	4

ADDNotUsedReason

APNUsed APNCurtainUsed APNEnclosedUsed APNFalseBottomUsed APNDoubleMeshUsed APNEffectiveness

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

	FALSE					
ADD effective so not required	FALSE					
	FALSE					
	FALSE					
	FALSE					
Not required	TRUE	FALSE	FALSE	TRUE	FALSE	4
	TRUE	FALSE	TRUE	FALSE	FALSE	3
Not allowed by SNH without EPS license due to cetaceans.	FALSE					
SNH have prohibited the use of ADDs in Rousay sound due to cetaceans. Prior to use an EPS license is required. Also in the whole foods accreditation scheme that does not allow the use of ADDs.	TRUE	FALSE	FALSE	TRUE	TRUE	4
Not allowed by SNH without an EPS license	TRUE	FALSE	TRUE	FALSE	FALSE	3
Not allowed by SNH due to cetacean movements in Scapa Flow. EPS license required.	TRUE	FALSE	FALSE	TRUE	FALSE	4
Not allowed by SNH without an EPS license due to cetacean movements in Rousay Sound	TRUE	FALSE	FALSE	TRUE	FALSE	4
Not allowed by SNH in Scapa Flow due to cetacean movements in Scapa Flow. An EPS license is required.	FALSE					
The use of ADDS is not permitted without the issue of an EPS license	TRUE	FALSE	TRUE	FALSE	FALSE	3
	TRUE	FALSE	FALSE	TRUE	FALSE	4
	FALSE					
The use of ADDs has been refused by SNH due to cetacean movements in Scapa Flow. An EPS license is required.	TRUE	FALSE	TRUE	FALSE	FALSE	2
Investigating the potential use of ADDs at present in combination with other methods.	TRUE	FALSE	FALSE	TRUE	FALSE	4
Not allowed by SNH due to cetaceans in Scapa Flow without an EPS license	TRUE	FALSE	FALSE	TRUE	TRUE	4
Not effective at site	TRUE	FALSE	FALSE	TRUE	FALSE	2
The use of ADDs has been prohibited by SNH due to cetacean movements in Scapa Flow. An EPS License is required	TRUE	FALSE	FALSE	TRUE	FALSE	4
	TRUE	FALSE	FALSE	TRUE	FALSE	4
	TRUE	FALSE	FALSE	TRUE	FALSE	1
	TRUE	FALSE	FALSE	TRUE	TRUE	4
	TRUE	FALSE	FALSE	TRUE	TRUE	4
	FALSE					
seals are a rare occurrence in the loch	TRUE	FALSE	FALSE	TRUE	FALSE	3
	TRUE	FALSE	FALSE	TRUE	FALSE	4
	TRUE	FALSE	FALSE	TRUE	FALSE	4
	TRUE	FALSE	FALSE	TRUE	FALSE	4
	TRUE	FALSE	FALSE	TRUE	FALSE	3

[illegible]

[illegible]

APNNotUsedReason

SealBlindUSealBlindEffectivenessSealBlindNotUsedReason

ElectricUsedElectricEffectiveness

ADD effective so not required

FALSE

ADD effective so not required

FALSE

ADD effective so not required

FALSE

ADD effective so not required

FALSE

ADD effective so not required

FALSE

ADD effective so not required

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ADD sufficient so not required

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ADD effective so not required

FALSE

ADD effective so not required

FALSE

ADD effective so not required

FALSE

ADD sufficient so not required

FALSE

ADD sufficient so not required

FALSE

[illegible]

	FALSE	double base netting used	FALSE
	FALSE	double base netting	FALSE
	FALSE	double base netting	FALSE
	FALSE	double base netting	FALSE
	FALSE	double base netting	FALSE
	FALSE	double base netting	FALSE
	FALSE	double base netting	FALSE
	FALSE	double base netting	FALSE
	FALSE	double base netting	FALSE
	FALSE	double base netting	FALSE
	FALSE	double base netting	FALSE
Available but not required at present	FALSE	Not effective at preventing seal predation	FALSE
Not required at present but available for use (Full enclosure)	FALSE	Not effective at preventing seal predation	FALSE
Not required at present	FALSE	Not effective at preventing seal predation	FALSE
Not required at present	FALSE	Not effective at preventing seal predation	FALSE
Not required at present	FALSE	Not effective at preventing seal predation	FALSE
Not required at present	FALSE	Not effective at preventing seal predation	FALSE
Available but not required at present	FALSE	Not effective at preventing seal predation	FALSE
	FALSE	Not effective at preventing seal predation	FALSE
	FALSE	Not effective at preventing seal predation	FALSE
Not required at present though though available if required	FALSE	Not effective ayt preventing seal predation	FALSE
Not required during the production period stated	FALSE	Not effective at preventing seal predation	FALSE
Available but not used at prsent	FALSE	Not effective at preventing seal predation	FALSE
Not required at present but available	FALSE	Not effective at preventing seal predation	FALSE
Not required	FALSE	Not effective at preventing seal predation	FALSE
	FALSE	Not effective at preventing seal predation	FALSE
Not required at present but available for use if required	FALSE	Not effective at preventing seal predation	FALSE
Not required at present but available if required	FALSE	Not effective at preventing seal predation	FALSE
Not required at present	FALSE	Not effective at preventing seal predation	FALSE
Not required at present though available if required	FALSE	Not effective at preventing seal predation	FALSE
Not required at present	FALSE	Not effective at preventing seal predation	FALSE
Not required at present	FALSE	Not effective at preventing seal predation	FALSE
Not used at present but will form part of our predator defence policy	FALSE	Not effective at preventing seal predation	FALSE
Not required at present	FALSE	Not effective at preventing seal predaion	FALSE
	FALSE	Not practical.	FALSE
	FALSE	Not practical.	FALSE
	FALSE	Not practical.	FALSE
	FALSE	Not practical.	FALSE
	FALSE	Not practical.	FALSE
	FALSE	Not practical.	FALSE
	FALSE	Not practical.	FALSE
	FALSE	Not practical.	FALSE
	FALSE	Not needed.	FALSE
	FALSE	Not needed.	FALSE
	FALSE	Not needed.	FALSE
	FALSE	Not needed.	FALSE
	FALSE	Not needed.	FALSE
Potential indiscriminate trapping of wildlife/rare birds in the predator net	FALSE	Not needed.	FALSE
Potential indiscriminate trapping of wildlife	FALSE	Build up of fish waste (faeces) on base of the net.	FALSE
Potential indiscriminate trapping of wildlife/rare birds in the predator net	FALSE	Accumulation of fish waste (faeces) on net base	FALSE
Not allowed by SNH or planning authority due to potential indiscriminate trapping of wildlife/rare birds in the predator net. Predator nets are also ineffective on strong tidal sites.	FALSE	Build up of fish waste (faeces) on base of the net	FALSE
Potential indiscriminate trapping of wildlife/rare birds in the predator net	FALSE	Accumulation of fish waste (faeces) on net base	FALSE
	FALSE	Build up of fish waste on base of net	FALSE
Not allowed by SNH or planning authority on the grounds of potential indiscriminate trapping of wildlife/rare birds in the predator net	FALSE	Build up of fish waste on base of net	FALSE
Not allowed by SNH or planning authority on the grounds of potential indiscriminate trapping of wildlife/rare diving birds in the predator net	FALSE	Accumulation of fish waste on net base	FALSE
Not allowed by SNH or planning authority on the grounds of indiscriminate trapping of wildlife/rare birds in the predator net.	FALSE	Build up of fish waste on base of net	FALSE

	FALSE	ADD effective so not required	FALSE
ADD effective so not required	FALSE	ADD effective so not required	FALSE
ADD effective so not required	FALSE	ADD effective so not required	FALSE
ADD effective so not required	FALSE	ADD effective so not required	FALSE
ADD effective so not required	FALSE	ADD effective so not required	FALSE
ADD effective so not required	FALSE	ADD effective so not required	FALSE
ADD effective so not required	FALSE	ADD effective so not required	FALSE
ADD effective so not required	FALSE	ADD effective so not required	FALSE
ADD effective so not required	FALSE	ADD effective so not required	FALSE
ADD effective so not required	FALSE	ADD effective so not required	FALSE
ADD effective so not required	FALSE	ADD effective so not required	FALSE
ADD Effective so not required	FALSE	ADD Effective so not required	FALSE
ADD effective so not required	FALSE	ADD effective so not required	FALSE
ADD effective so not required	FALSE	ADD effective so not required	FALSE
Site only recently stocked	FALSE	Site only recently stocked	FALSE
Bi catch concerns	TRUE	5	FALSE
high currents risk of entanglement of other animals/birds	TRUE	5	FALSE
high currents, risk of entanglement of other animals/birds	TRUE	5	FALSE
high currents, risk of entanglement of other animals/birds	TRUE	5	FALSE
risk of entanglement of other animals/birds	TRUE	5	FALSE
risk of entanglement of other animals/birds	TRUE	5	FALSE
	TRUE	2	FALSE
	FALSE	Would not fit in with management of site.	FALSE
	FALSE	Would not suit production and management plans	FALSE
	FALSE	Would not fit with management practices	FALSE
Bi catch concerns	TRUE	5	FALSE
Operational	FALSE	Operational	FALSE
Operational	FALSE	Operational	FALSE

Operational	FALSE	Operational	FALSE
Operational	FALSE	Operational	FALSE
Operational	FALSE	Operational	FALSE
Operational	FALSE	Operational	FALSE
Operational	FALSE	Operational	FALSE
Operational	FALSE	Operational	FALSE
Operational	FALSE	Operational	FALSE
Operational	FALSE	Operational	FALSE
Bi catch concerns	TRUE	4	FALSE
POLICY	TRUE	3	FALSE
BI CATCH CONCERNS	TRUE	4	FALSE
bi catch concerns	TRUE	5	FALSE
bi catch concerns	TRUE	4	FALSE
bi catch concerns	TRUE	4	FALSE
bi catch concerns	TRUE	4	FALSE
bi catch concerns	TRUE	4	FALSE
policy	TRUE	4	FALSE
bi catch concerns	TRUE	4	FALSE
bi catch concerns	TRUE	5	FALSE
bi catch concerns	TRUE	5	FALSE
bi catch concern	TRUE	5	FALSE
bi catch concerns	TRUE	5	FALSE
bi catch concerns	TRUE	5	FALSE
bi catch concerns	TRUE	4	FALSE
bi catch concerns	TRUE	5	FALSE
bi catch concerns	TRUE	3	FALSE
bi catch concerns	TRUE	4	FALSE
bi catch concerns	TRUE	4	FALSE
bi catch concerns	TRUE	4	FALSE
bi catch concerns	TRUE	4	FALSE
bi catch concerns	TRUE	4	FALSE
bi catch concerns	TRUE	5	FALSE
bi catch concerns	TRUE	5	FALSE
Bi Catch Concerns	TRUE	5	FALSE
bi catch concerns	TRUE	4	FALSE
bi catch concerns	TRUE	4	FALSE
bi catch concerns	TRUE	4	FALSE
bi catch concerns	TRUE	5	FALSE
bi catch concerns	TRUE	4	FALSE
bi catch concerns	TRUE	3	FALSE
bi catch concerns	TRUE	4	FALSE
bi catch concerns	TRUE	3	FALSE
company policy	TRUE	5	FALSE
STRONG TIDES	TRUE	4	FALSE
STRONG TIDES	TRUE	4	FALSE
STRONG TIDES	TRUE	4	FALSE
BI CATCH CONCERNS	TRUE	4	FALSE
Bi Catch Concerns	TRUE	3	FALSE
	FALSE	Would not fit with management methods	FALSE

ElectricNotUsedReason	OtherNLMUsed	OtherNLMUsedDescription	OtherNLMEffectiveness
ADD effective so not required	FALSE		
ADD effective so not required	FALSE		
ADD effective so not required	FALSE		
ADD sufficient so not required	FALSE		
ADD effective so not required	FALSE		

ADD sufficient so not required

FALSE

ADD effective so not required

FALSE

ADD effective so not required

FALSE

ADD effective so not required

FALSE

ADD sufficient so not required

FALSE

practicality		FALSE		
practicality		FALSE		
practicality		FALSE		
practicality		FALSE		
practicality		FALSE		
practicality		FALSE		
practicality		FALSE		
practicality		FALSE		
practicality		FALSE		
practicality		TRUE	"star" netting- effectiveness yet to be fully assessed as only installed in most recent cycle	3
Not reliable technology at present and may have health and safety implications		FALSE		
Not reliable technology and may have health and safety implications		FALSE		
Not reliable technology at present and may have health and safety implications		FALSE		
Not reliable technology and may have health and safety implications.		FALSE		
Not reliable technology and may have health and safety implications		FALSE		
Not reliable technology at present and may have health and safety implications		FALSE		
not reliable technology at present and may have health and safety implications.		FALSE		
Not reliable technology at present and may have health and safety implications		FALSE		
Not reliable technology and may have health and safety implications		FALSE		
Not reliable technology and may have health and safety implications		FALSE		
Not reliable technology and may have health and safety implications		FALSE		
Not reliable technology and may have health and safety implications		FALSE		
Not reliable technology and may have health and safety implications		FALSE		
Not reliable technology at present and may have health and safety implications		FALSE		
Not reliable technology and may have health and safety implications		FALSE		
Not reliable technology at present and may have health and safety implications		FALSE		
Not reliable technology and may have health and safety implications		FALSE		
Not reliable technology at present and may have health and safety implications		FALSE		
Not reliable technology and may have health and safety implications		FALSE		
Not reliable technology at present and may have health and safety implications		FALSE		
Not reliable technology and may have health and safety implications		FALSE		
Not reliable technology at present and may have health and safety implications		FALSE		
Not reliable technology and may have health and safety implications		FALSE		
Not reliable technology at present and may have health and safety implications		FALSE		
Not reliable technology and may have health and safety implications		FALSE		
Not practical.		FALSE		
Not practical.		FALSE		
Not practical.		FALSE		
Not practical.		FALSE		
Not practical.		FALSE		
Not practical.		FALSE		
Not practical.		FALSE		
Not practical.		FALSE		
No needed.		FALSE		
Not needed.		FALSE		
Not needed.		FALSE		
Not needed.		FALSE		
Not approved by freedom foods		FALSE		
Not Freedom Food approved		FALSE		
Not approved by Freedom Foods		TRUE	Sapphire seal proof nets being trialled	4
Not Freedom Food approved		TRUE	Sapphire seal proof nets being trialled	4
Not approved by freedom foods		FALSE		
Not approved by Freedom Foods		FALSE		
Use not approved by Freedom Foods		FALSE		
Not approved by Freedom Foods		FALSE		

[illegible]

ADD effective so not required	FALSE

ADD effective so not required	FALSE
ADD effective so not required	FALSE
ADD effective so not required	FALSE

ADD effective so not required	FALSE

ADD effective so not required	FALSE

ADD effective so not required	FALSE

ADD effective so not required	FALSE

ADD effective so not required	FALSE
Predator net used	FALSE

ADD effective so not required	FALSE

ADD effective so not required	FALSE

ADD Effective so not required	FALSE

ADD effective so not required	FALSE

ADD effective so not required	FALSE

Site only recently stocked	FALSE
company policy	FALSE
impractical	FALSE
impractical	FALSE
impractical	FALSE
impractical	FALSE
impractical	FALSE
impractical	FALSE
Would not fit in with production.	FALSE
Would not suit production.	FALSE
Technology still not reliable enough.	FALSE
Company policy	FALSE
Not company policy	FALSE
Operational	FALSE
Operational	FALSE

Operational	FALSE		
Operational	FALSE		
Operational	FALSE		
Operational	FALSE		
Operational	TRUE	Seal Pro net on the outside of the ordinary star net.	3
Operational	TRUE	Seal Pro net on the outside of the ordinary star net.	3
Operational	FALSE		
Operational	FALSE		
Policy	FALSE		
POLICY	FALSE		
POLICY	FALSE		
policy	FALSE		
policy	FALSE		
policy	FALSE		
policy	FALSE		
policy	FALSE		
policy	FALSE		
policy	FALSE		
policy	FALSE		
Policy	FALSE		
policy	FALSE		
policy	FALSE		
policy	FALSE		
company policy	FALSE		
company policy	FALSE		
policy	FALSE		
policy	FALSE		
policy	FALSE		
policy	FALSE		
company policy	FALSE		
policy	FALSE		
policy	FALSE		
policy	FALSE		
policy	FALSE		
policy	FALSE		
company policy	FALSE		
company policy	FALSE		
policy	FALSE		
policy	FALSE		
policy	FALSE		
policy	FALSE		
THESE ARE NOT OFFERED BY OUR SUPPLIER THAT SUPPLY OUR SEAL DETERRANTS	TRUE	ADEQUATE TENTIONING, TOP NETS FULLY SECURED, WORKING ADD'S	4
THESE ARE NOT OFFERED BY OUR SUPPLIER THAT SUPPLY OUR SEAL DETERRANTS	TRUE	ADEQUATE NET TENSIONING, TOP NETS FULLY SECURED AND WORKING ADDS	4
THESE ARE NOT OFFERED BY OUR SUPPLIER THAT SUPPLY OUR SEAL DETERRANTS	TRUE	ADEQUATE TENSTIONING IN NETS, TOP NETS FULLY SECURED AND WORKING ADD'S	4
POLICY	FALSE		
Policy	FALSE		
Company Policy	FALSE		

DetailNewMeasures

MeasuresRefused

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

None site fallow

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

FALSE

TRUE

FALSE

TRUE

FALSE

TRUE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

n/a

FALSE
FALSE
TRUE
FALSE
FALSE
FALSE

FALSE
FALSE
FALSE
TRUE
FALSE
FALSE
FALSE
FALSE
FALSE
FALSE
FALSE
FALSE
FALSE
FALSE
FALSE
FALSE

FALSE
FALSE
FALSE
FALSE
FALSE
FALSE
FALSE
FALSE
FALSE
FALSE

FALSE
FALSE
FALSE
FALSE
FALSE
FALSE

FALSE
FALSE
FALSE
FALSE

TRUE
FALSE

TRUE

TRUE
TRUE

installation of star netting in new cycle and introduction of "weight pockets" system to try and reduce any free movement of weights which in turn should reduce any rubbing on the net surface by the weigh

ADD's and extra predation nets.
ADD's and extra predation nets.
ADD's and extra predation nets.
ADD's and extra predation nets.
ADD's and extra predation nets.

ADD's and extra predation nets.

None.
None.
None.

TRUE
TRUE
TRUE
FALSE
FALSE

FALSE
TRUE
FALSE
FALSE
TRUE

TRUE
FALSE

FALSE
TRUE
TRUE
FALSE

FALSE
FALSE
FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

ADD, SAC for common seals

N/A

N/A
N/A
N/A
N/A
N/A

FALSE

FALSE
FALSE
FALSE

FALSE

FALSE

FALSE

FALSE

FALSE
FALSE

FALSE

FALSE

FALSE

FALSE

FALSE

[illegible]

[illegible]

MeasuresRefusedWhichWhy

SealPresentGrey SealPresentcommon SealPredationEventCount SealEventsNonWitnessed SealEventsWitnessed SealEventGreyCount

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

TRUE

	TRUE	TRUE				
	TRUE	TRUE				
	TRUE	TRUE				
	TRUE	TRUE				
	TRUE	TRUE	19	19	0	19
	TRUE	TRUE				
The use of ADDs has been opposed by SNH due to cetaceans frequently using the Rousay sound. Prior to use an EPS license would be required.	TRUE	TRUE				
SNH have prohibited the use of ADDs in Rousay sound due to cetaceans. Prior to use an EPS license is required.	TRUE	TRUE	35	35	0	35
The use of ADDs by SNH without an EPS license being in place.	TRUE	TRUE	33	29	0	33
Not allowed by SNH due to cetacean movements in Scapa Flow. EPS license required.	TRUE	TRUE	14	14	0	14
ADD use has been prohibited by SNH without an EPS license.	TRUE	TRUE	20	20	0	20
Not allowed by SNH in Scapa Flow due to cetacean movements in Scapa Flow. An EPS license is required.	TRUE	TRUE	5	5	0	5
The use of ADDS is not permitted without the issue of an EPS license	TRUE	TRUE	5	5	0	5
	TRUE	TRUE	37	32	0	37
The use of ADDs has been refused by SNH due to cetacean movements in Scapa Flow. An EPS license is required.	TRUE	TRUE	3	3	0	3
	TRUE	TRUE	43	37	0	43
Not allowed by SNH due to cetaceans in Scapa Flow without an EPS license	TRUE	TRUE	12	12	0	12
	TRUE	TRUE	17	16	0	17
The use of ADDs has been prohibited by SNH due to cetacean movements in Scapa Flow. An EPS License is required	TRUE	TRUE	33	33	0	30
	TRUE	TRUE	114	114	0	0
	FALSE	TRUE	20	20	0	0
	FALSE	TRUE				
	FALSE	TRUE	150	150	0	0
	TRUE	TRUE	43	43	0	0
	TRUE	TRUE				
	TRUE	TRUE	40	40	0	0
	TRUE	TRUE	29	29	0	0
	TRUE	TRUE	11	11	0	0
	TRUE	TRUE	65	65	0	0
	FALSE	TRUE	119	119	0	0

ADD- see above- not used due to SNH instruction	TRUE	TRUE	6	6	0	0
	TRUE	TRUE	49	49	0	0
	FALSE	TRUE	4	4	0	0
	TRUE	TRUE	7	7	0	0
	TRUE	TRUE	97	97	0	0
	TRUE	TRUE	21	21	0	0
ADD- SNH/local authority planning requirement for protection of cetaceans	FALSE	TRUE	4	4	0	0
	TRUE	TRUE	10	10	0	0
	TRUE	TRUE	1	1	0	0
	FALSE	TRUE	50	50	0	0
	TRUE	TRUE				
	TRUE	TRUE	51	51	0	0
	TRUE	TRUE	24	24	0	0
	TRUE	TRUE				
	TRUE	TRUE				
	TRUE	TRUE	3	3	0	3
	TRUE	TRUE				
	TRUE	TRUE	21	19	0	21
	TRUE	TRUE	20	18	0	20
	TRUE	TRUE	26	20	0	25
	TRUE	TRUE				
	TRUE	TRUE	3	3	0	3
	TRUE	TRUE	15	15	0	15
	TRUE	TRUE				
	TRUE	TRUE				
	TRUE	TRUE	3	3	0	3
	TRUE	TRUE				
	TRUE	TRUE	12	11	0	11
	TRUE	TRUE				
	TRUE	TRUE	17	15	0	17
	TRUE	TRUE				
	TRUE	TRUE	10	10	0	10
	TRUE	TRUE	16	15	0	16
	TRUE	TRUE				
Yes, ADD's and predator nets not allowed for the reasons already stated above.	TRUE	FALSE				
	TRUE	TRUE	40	39	0	1
	TRUE	TRUE	51	50	0	0
	TRUE	TRUE				
	TRUE	TRUE	44	43	0	1
	TRUE	TRUE	7	7	0	0
	TRUE	TRUE	34	34	0	0
	TRUE	TRUE				
	TRUE	TRUE	123	123	0	0
	TRUE	TRUE	160	160	0	0
	TRUE	TRUE	22	22	0	0
Yes, ADD's and Predator nets not allowed for the reasons already stated above	TRUE	TRUE	3	0	0	2
	TRUE	TRUE	51	0	0	45
	TRUE	TRUE	13	0	0	13
Yes, ADD's and predator nets not allowed for the reasons already stated above.	TRUE	TRUE	68	0	0	64
	TRUE	TRUE	42	0	0	40
Yes, ADDs and predator nets not allowed for the reasons already stated above	TRUE	TRUE	21	0	0	20
Yes, ADD's and predator nets not allowed for the reasons already stated above	TRUE	TRUE	18	0	0	16
Yes, ADDs and predator nets not allowed for the reasons already stated above	TRUE	TRUE	59	0	0	59

ADD's not allowed in Scapa Flow due to Cetaceans
ADDs, SAC for common seals
ADD, SAC for common seals

TRUE	TRUE	8	4	0	0
TRUE	TRUE	6	6	0	0
TRUE	TRUE	1	1	0	0
TRUE	TRUE				

ADD, SAC for common seals

TRUE	TRUE				
TRUE	TRUE	6	6	0	0
TRUE	TRUE				
TRUE	TRUE				
TRUE	TRUE				

ADD, SAC for common seals

ADD, SAC for common seals

TRUE	TRUE	6	6	0	0
TRUE	TRUE	1	1	0	0

ADD, SAC for common seals

ADD, SAC for common seals

TRUE	TRUE				
TRUE	TRUE	11	11	0	0
TRUE	TRUE	1	1	0	0
TRUE	TRUE	1	1	0	0

TRUE	TRUE	7	7	0	0
TRUE	TRUE	6	6	0	0
TRUE	TRUE	6	6	0	0

TRUE TRUE

TRUE TRUE

TRUE TRUE

TRUE	TRUE	5	4	0	1

TRUE TRUE

TRUE TRUE

TRUE TRUE

TRUE TRUE

TRUE TRUE

TRUE TRUE

TRUE TRUE

TRUE TRUE

TRUE TRUE

TRUE TRUE

ADD's - permission required for temporary deployment as a condition of licence	TRUE	TRUE	6	6	0	5
	TRUE	TRUE	6	4	0	5
	TRUE	TRUE	10	9	0	9
	TRUE	TRUE	11	11	0	10
	TRUE	TRUE	16	10	0	13
	TRUE	TRUE	7	4	0	6
	TRUE	TRUE	3	3	0	2
	TRUE	TRUE				
	TRUE	TRUE	20	20	0	0
	TRUE	TRUE	74	74	0	0
	TRUE	FALSE	3	3	0	0
	TRUE	FALSE				
	TRUE	TRUE	23	23	0	0
	TRUE	TRUE	15	15	0	0
	TRUE	FALSE	18	18	0	0
	TRUE	TRUE	4	4	0	0
	TRUE	FALSE	17	17	0	0
	TRUE	TRUE	1	0	0	1
	TRUE	TRUE				
	FALSE	TRUE				
ADD's not permitted as condition of planning consent We have purchase Anti predator nets to trial at this site in this next cycle ADD's as a condition of planning consent	TRUE	TRUE				
	TRUE	TRUE				
	TRUE	TRUE				
	TRUE	TRUE				
	TRUE	TRUE	8	8	0	0
	TRUE	TRUE	63	63	0	0
	TRUE	TRUE	176	176	0	0
	TRUE	TRUE	16	16	0	0
	TRUE	TRUE				
	TRUE	TRUE	74	74	0	0
	TRUE	FALSE	103	103	0	0
	TRUE	TRUE				
	TRUE	TRUE	64	64	0	0
	TRUE	TRUE	46	46	0	0
	FALSE	TRUE	60	60	0	0
	FALSE	TRUE	48	48	0	0
	TRUE	TRUE				
	TRUE	TRUE				
	TRUE	TRUE	132	132	0	0
	TRUE	TRUE	5	5	0	0
	TRUE	TRUE	13	13	0	0
	TRUE	TRUE	22	22	0	0
	TRUE	TRUE				
	TRUE	TRUE	30	24	0	6
	TRUE	TRUE	8	4	0	4
	TRUE	TRUE	150	150	0	0
	TRUE	TRUE	68	68	0	0
	FALSE	TRUE	4	4	0	0

SealEventCommonCount FishCountInjuredOct FishCountKilledOct FishCountEscapedOct FishCountInjuredNov FishCountKilledNov FishCountEscapedNov FishCountInjuredDec FishCountKilledDec FishCountEscapedDec FishCountInjuredJan FishCountKilledJan FishCountEscapedJan

0	0	6	0	0	0	0	0	4431	0	0	5453	0
0	0	462	0	0	120	0	0	521	0	0	359	0
0	0	0	0	0	9	0	0	8	0	0	34	0
0	0	5	0	0	7	0	0	0	0	0	0	0
0	0	187	0	0	99	0	0	588	0	0	733	0
0	0	0	0	0	0	0	0	0	0	0	98	0
0	0	158	0	0	0	0	0	0	0	0	0	0
0	49	0	0	0	0	0	0	0	0	548	0	0
0	0	0	0	0	0	0	0	0	0	0	100	0
0	0	889	0	0	40	0	0	1035	0	0	1342	0
0	0	7	0	0	1	0	0	14	0	0	0	0
0	0	177	0	0	853	0	0	142	0	0	115	0
3	0	1301	0	0	355	0	0	919	0	0	1352	0
0	0	367	0	0	443	0	0	146	0	0	135	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	141	0	0	230	0	0	393	0	0	177	0
0	0	32	0	0	14	0	0	0	0	0	25	0
0	0	0	0	0	59	0	0	30	0	0	63	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	32	0	0	91	0	0	89	0	0	72	0
0	0	0	0	0	689	0	0	2182	0	0	2423	0

0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	39	0	0	151	0	0	196	0	0	393	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	262	0	0	3	0	0	4	0	0	7	0	0
0	0	96	0	0	0	0	0	0	0	0	0	0	0
0	0	17	0	0	207	0	0	151	0	0	3	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	6	0	0	10	0	0	90	0	0	73	0	0
0	0	203	0	0	18	0	0	0	0	0	41	0	0
0	0	2	0	0	24	0	0	0	0	0	320	0	0
0	0	122	0	0	0	0	0	0	0	0	0	0	0
0	0	7	0	0	8	0	0	54	0	0	185	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	377	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	14	0	0	0	0	0	2	0	0	23	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	1957	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	43	0	0	3	0	0
0	0	68	0	0	0	0	0	102	0	0	9	0	0
0	0	260	0	0	313	0	0	1265	0	0	839	0	0
0	0	0	0	0	0	0	0	16	0	0	1	0	0
1	0	573	0	0	107	0	0	225	0	0	334	0	0
0	0	0	0	0	0	0	0	0	0	0	1925	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	3636	0	0	1803	0	0	986	0	0	112	0	0
0	0	0	0	0	1	0	0	2	0	0	2	0	0
0	0	1227	0	0	1105	0	0	1489	0	0	529	0	0
0	0	95	0	0	122	0	0	8	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	4	0	0	2	0	0	0	0	0	0	0	0
4	0	1	0	0	41	0	0	42	0	0	43	0	0
2	0	105	0	0	0	0	0	201	0	0	1391	0	0
1	0	0	0	0	18	0	0	38	0	0	47	0	0
2	0	422	0	0	32	0	0	0	0	0	27	0	0
0	0	0	0	0	33	0	0	32	0	0	41	0	0

0	0	0	0	0	0	0	0	38	0	0	468	0
0	0	0	0	0	0	0	0	110	0	0	53	0
0	0	0	0	0	0	0	0	0	0	0	0	0

0	0	0	0	0	0	0	0	34	0	0	49	0

0	0	0	0	0	0	0	0	22	0	0	67	0
0	0	0	0	0	0	0	0	0	0	0	0	0

0	0	56	0	0	704	0	0	248	0	0	233	0
0	0	0	0	0	0	0	0	497	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0

0	0	31	0	0	79	0	0	132	0	0	0	0
0	0	0	0	0	183	0	0	142	0	0	139	0
0	0	44	0	0	271	0	0	281	0	0	731	0

0	0	381	0	0	59	0	0	91	0	0	0	0

1	0	387	0	0	126	0	0	532	0	0	106	0
1	0	63	0	0	534	0	0	162	0	0	324	0

0	0	0	0	0	0	0	0	0	0	0	230	0

30	0	825	0	0	103	0	0	256	0	0	384	0
13	0	40	0	0	18	0	0	2	0	0	10	0
22	0	43	0	0	985	0	0	621	0	0	384	0

1	0	0	0	0	0	0	0	1	0	0	0	0
2	0	1753	0	0	4	0	0	41	0	0	205	0

1	0	519	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	23	0	0	0	0	0	0	415	0	0	156	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	26	0	0	0	0	0	0	153	0	0	512	0
1	0	250	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1600	0	0	2125	0	0	0	974	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	56	0	0	0	0	0	0	0	0	0	992	0
0	0	0	0	0	877	0	0	534	0	0	0	41	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	528	0	0	0	1552	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	14	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	0	0	0	0	0	0
0	0	582	0	0	1685	0	0	810	0	0	0	873	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	5938	0	0	0	15	0
0	0	670	0	0	664	0	0	190	0	0	0	239	0
0	0	48	0	0	0	0	0	133	0	0	0	227	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	14	0	0	0	0	0	0	0	0	0	0	0
0	0	29	0	0	6	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	67	0	0	0	0	0	264	0	0	0	369	0
0	0	0	0	0	25	0	0	44	0	0	0	4	0
0	0	387	0	0	13	0	0	7	0	0	0	64	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	318	0	0	547	0	0	0	9002	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	5	0	0	0	9	0

FishCountInjuredFeb FishCountKilledFeb FishCountEscapedFeb FishCountInjuredMar FishCountKilledMar FishCountEscapedMar FishCountInjuredApr FishCountKilledApr FishCountEscapedApr FishCountInjuredMay FishCountKilledMay FishCountEscapedMay FishCountInjuredJun

0	353	0	0	10	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	124	0	0
0	402	0	0	1530	0	0	204	0	0	4	0	0
0	38	0	0	329	0	0	36	0	0	0	0	0
0	1712	0	0	370	0	0	175	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
2853	0	0	1951	0	0	3732	0	0	2536	0	0	87
0	0	0	0	0	0	0	0	0	0	487	0	0
0	1320	0	0	1087	0	0	2262	0	0	681	0	0
0	2	0	0	11	0	0	46	0	0	110	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	1092	0	0	1990	0	0	1994	0	0	0	0	0
0	92	0	0	128	0	0	86	0	0	54	0	0
0	0	0	0	0	0	0	1	0	0	4	0	0
0	1539	0	0	1324	0	0	759	0	0	255	0	0
0	141	0	0	53	0	0	36	0	0	4	0	0
0	9	0	0	0	0	0	0	0	0	0	0	0
0	81	0	0	54	0	0	0	0	0	0	0	0
0	0	0	0	3	0	0	68	0	0	3	0	0
0	188	0	0	221	0	0	0	0	0	0	0	0
0	1995	0	0	1111	0	0	0	0	0	0	0	0

0	0	0	0	0	0	0	20	0	0	40	0	0
0	35	0	0	161	0	0	66	0	0	26	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	193	0	0	134	0	0	124	0	0
0	167	0	0	19	0	0	10	0	0	6	0	0
0	0	0	0	30	0	0	2	0	0	1	0	0
0	0	0	0	0	0	0	144	0	0	70	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	48	0	0	58	0	0	29	0	0	10	0	0
0	148	0	0	243	0	0	33	0	0	27	0	0
0	1036	0	0	375	0	0	103	0	0	200	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	281	0	0	140	0	0	619	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	674	0	0
0	562	0	0	5958	0	0	3823	0	0	2424	0	0
0	0	0	0	0	0	0	0	0	0	2898	0	0
0	0	0	0	11	0	0	0	0	0	8	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	2708	0	0	1562	0	0
0	2	0	0	38	0	0	103	0	0	3	0	0
0	219	0	0	6	0	0	0	0	0	0	0	0
0	1808	0	0	0	0	0	0	0	0	0	0	0
0	4	0	0	0	0	0	8	0	0	5	0	0
0	70	0	0	18	0	0	3	0	0	0	0	0
0	794	0	0	1141	0	0	2082	0	0	3949	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	209	0	0	310	0	0	446	0	0
0	122	0	0	488	0	0	58	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	654	0	0	1102	0	0
0	10	0	0	0	0	0	0	0	0	0	0	0
0	99	0	0	591	0	0	484	0	0	8	0	0
0	571	0	0	987	0	0	38	0	0	0	0	0
0	86	0	0	13	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	113	0	0	588	0	0	811	0	0	132	0	0

0	423	0	0	5	0	0	12	0	0	8	0	0
0	91	0	0	276	0	0	61	0	0	26	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0

0	26	0	0	0	0	0	23	0	0	25	0	0

0	12	0	0	0	0	0	23	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0

0	790	0	0	235	0	0	74	0	0	1169	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0

0	994	0	0	2352	0	0	7688	0	0	4908	0	0
0	59	0	0	375	0	0	728	0	0	0	0	0
0	863	0	0	248	0	0	0	0	0	0	0	0

0	17	0	0	236	0	0	0	0	0	0	0	0

0	25	0	0	0	0	0	0	0	0	0	0	0
0	88	0	0	44	0	0	10	0	0	0	0	0

0	2991	0	0	1147	0	0	240	0	0	9	0	0

0	286	0	0	0	0	0	0	0	0	65	0	0
0	105	0	0	78	0	0	16	0	0	42	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0

0	5	0	0	0	0	0	0	0	0	0	0	0
0	97	0	0	692	0	0	3568	0	0	2227	0	0

0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	1679	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	760	0	0	2838	0	0	693	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	555	0	0	457	0	0	280	0	0	43	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	3836	0	0	2187	0	0	366	0	0	299	0	0
0	360	0	0	0	0	0	91	0	0	22	0	0
0	110	0	0	270	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	418	0	0
0	25	0	0	2461	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	1207	0	0	1428	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	128	0	0	3268	0	0
0	813	0	0	828	0	0	36	0	0	68	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	2	0	0	58	0	0	105	0	0	123	0	0
0	51	0	0	1416	0	0	323	0	0	36	0	0
0	197	0	0	299	0	0	160	0	0	20	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	105	0	0	89	0	0	33	0	0	211	0	0
0	162	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	4144	0	0	9906	0	0	4600	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	62	0	0	16	0	0	2	0	0	0	0	0
0	2162	0	0	4416	0	0	1037	0	0	864	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	10493	0	0	5298	0	0	361	0	0	653	0	0
0	1251	0	0	3357	0	0	1802	0	0	0	0	0
0	1767	0	0	478	0	0	0	0	0	0	0	0

FishCountKilledJun FishCountEscapedJun FishCountInjuredJul FishCountKilledJul FishCountEscapedJul FishCountInjuredAug FishCountKilledAug FishCountEscapedAug FishCountInjuredSep FishCountKilledSep FishCountEscapedSep FishCountComparison SealSiteDamageCount

72	0	0	0	0	0	0	0	0	0	0 Fewer	0
0	0	0	0	0	0	0	0	0	31	0 Greater	1
0	0	0	13	0	0	0	0	0	0	0 Fewer	0
0	0	0	0	0	0	0	0	0	0	0 Fewer	0
5	0	0	26	0	0	12	0	0	7	0 Greater	0
0	0	0	0	0	0	0	0	0	0	0 Fewer	0
0	0	0	0	0	0	0	0	0	0	0 Same	0
0	0	0	31	0	0	0	0	0	183	0 Fewer	0
0	0	0	6	0	0	0	0	0	0	0 Fewer	0
0	0	0	0	0	0	0	0	0	0	0 Greater	0
15	0	0	1	0	0	9	0	0	0	0 Greater	5
0	0	0	0	0	0	0	0	0	0	0 Greater	15
0	0	0	0	0	0	0	0	0	0	0 Fewer	0
0	0	0	0	0	0	0	0	0	0	0 Fewer	0
1043	0	0	2188	0	0	339	0	0	1780	0 Greater	0
557	0	0	690	0	0	327	0	0	1747	0 Greater	0
0	0	0	0	0	0	0	0	0	0	0 Same	0
22	0	0	3	0	0	103	0	0	376	0 Same	0
0	0	0	0	0	0	0	0	0	139	0 Fewer	0
371	0	0	0	0	0	0	0	0	0	0 Greater	0
3	0	0	0	0	0	92	0	0	3	0 Fewer	0
0	0	0	0	0	0	0	0	0	47	0 Fewer	0
0	0	0	0	0	0	2	0	0	2	0 Same	0
93	0	0	82	0	0	222	0	0	420	0 Fewer	0
24	0	0	28	0	0	380	0	0	42	0 Greater	0
1052	0	0	318	0	0	180	0	0	437	0 Greater	0
0	0	0	0	0	0	0	0	0	0	0 Fewer	0
0	0	0	0	0	0	0	0	0	62	0 Greater	0
127	0	0	0	0	0	26	0	0	322	0 Fewer	0
0	0	0	0	0	0	0	0	0	0	0 Fewer	0
0	0	0	0	0	0	0	0	0	29	0 Fewer	0
0	0	0	0	0	0	3	0	0	3	0 Fewer	0
551	0	0	30	0	0	7	0	0	213	0 Greater	0
3	0	0	0	0	0	3	0	0	0	0 Fewer	0
18	0	0	5	0	0	0	0	0	13	0 Greater	0
0	0	0	0	0	0	0	0	0	0	0 Fewer	0
0	0	0	0	0	0	0	0	0	0	0 Fewer	0
0	0	0	0	0	0	0	0	0	1283	0 Fewer	0
134	0	0	181	0	0	63	0	0	108	0 Greater	0

[illegible]

0	0	0	0	0	0	0	0	0	0	0 Fewer	0
0	0	0	0	0	0	0	0	0	0	0 Fewer	0

71	0	0	25	0	0	0	0	0	0	0 Greater	0

43	0	0	0	0	0	0	0	0	0	0 Greater	10
61	0	0	4	0	0	12	0	0	18	0 Same	2
0	0	0	0	0	0	0	0	0	0	0 Fewer	5

0	0	0	0	0	0	0	0	0	0	0 Fewer	0
934	0	0	345	0	0	479	0	0	0	0 Greater	0

[illegible]

WelfareConcernDiseaseParasite WelfareGrowth WelfareOther WelfareNone WelfareOtherText

FALSE	TRUE	FALSE	FALSE

FALSE	TRUE	FALSE	FALSE
FALSE	TRUE	FALSE	FALSE
FALSE	TRUE	FALSE	FALSE
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FinancialLossEstimate

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AdditionalComments

There were no predation events at this site in the specified period however the option above unticks itself on completion of the form. All systems were upgraded to the latest US3 units compatible with sonar triggers, electric nets and low frequency (14khz) transducers to minimise the impact on cetaceans. Deployment of these measures are dependent on porpoise numbers sighted.

Motion detector triggers are available to set off scrams whenever porpoises are in the area, to target seal approaches.

Basic training encourages use of the US3 systems only when seals are present. Rate 144 is only used when there are high mort numbers. Rate is reduced to 12 or switched off whenever the seal morts have reduced.

Gentle start feature in new US3 software reduces impact on cetaceans.

Use of deterrents is seasonal, and use is proportionate to the times when seals are attacking stocks.

There were no predation events at this site in the specified period however the option above unticks itself on completion of the form. All systems were upgraded to the latest US3 units compatible with sonar triggers, electric nets and low frequency (14khz) transducers to minimise the impact on cetaceans. Deployment of these measures are dependent on porpoise numbers sighted.

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Use of deterrents is seasonal, and use is proportionate to the times when seals are attacking stocks.

There were no predation events at this site in the specified period however the option above unticks itself on completion of the form. At the moment we only have 2 devices in area, other 6 units are out on loan, our devices are held on shore not used, until we experience seal kill in our daily morts, at this point we will deploy devices to see if problem disappears, We have 8 units in total, this enables us to cover biggest site Sgian Dubh in event of seal problem, other 2 sites are slightly smaller, Strone and Ardyne, in event of seal problem we would use recommended number of seal scarers in relation to site size, have used Sgian Dubh co-ordinates lat and long as reference on above question, as this is our biggest site and would require higher number of devices.

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Gentle start feature in new US3 software reduces impact on cetaceans.

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There were no predation events at this site in the specified period however the option above unticks itself on completion of the form. All systems were upgraded to the latest US3 units compatible with sonar triggers, electric nets and low frequency (14khz) transducers to minimise the impact on cetaceans. Deployment of these measures are dependent on porpoise numbers sighted.

Motion detector triggers are available to set off scrams whenever porpoises are in the area, to target seal approaches.

Basic training encourages use of the US3 systems only when seals are present. Rate 144 is only used when there are high mort numbers. Rate is reduced to 12 or switched off whenever the seal morts have reduced.

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There were no predation events at this site in the specified period however the option above unticks itself on completion of the form. At the moment we only have 2 devices in area, other 6 units are out on loan, our devices are held on shore not used, until we experience seal kill in our daily morts, at this point we will deploy devices to see if problem disappears, We have 8 units in total, this enables us to cover biggest site Sgian Dubh in event of seal problem, other 2 sites are slightly smaller, Strone and Ardyne, in event of seal problem we would use recommended number of seal scarers in relation to site size, have used Sgian Dubh co-ordinates lat and long as reference on above question, as this is our biggest site and would require higher number of devices.

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We anticipate using this site in late 2016 and 2017. Although no seal mortality has been recorded during the stocked period as stated above we wish to be able to protect our stocks from seal predation in the event that secondary measures such as predator nets fail to be effective. The site has been fallow for the last twelve months, however we intend to use the site in 2017. Predator nets are installed in line with Cooke Aquaculture Predator defence and mitigation policy, in line with our graded predator defence system. There use is not our first line of defence however if required full enclosure predator nets will be deployed.

We are currently trialling different nets types at all the Westray sites to try and improve the number of fish that we are losing through predation. We will see the effectiveness of these measures of the next twelve months.

Currently trialling saffire nets at site to improve seal predation attacks.

No seal predation events.

No seal predation events.

For question "Is this an increase on, fewer than or the same as, previous years", the site had not been operational for some time prior to the current production cycle, so a more accurate option would be n/a.

No seal predation events.

The site remained fallow for the last licensing issue, however we have plans to use the site in the next twelve months licensing period

All the mortality occurred at the site over a three week period, false bottom nets were fitted post attack that resolved the predation issue

At the present time the site is fallow, however we are in the process of developing the site and changing the infrastructure to 12 x 100m cages , using froyer rings weighted to 3200kg. Net depth will be 10m minimum. All previous infrastructure present will be removed from site. Anti predator measures will be utilised if required.

Although the site was not stocked during the last production cycle we intend to use the site during 2017
false bottom nets fitted after the second lot of seal attacks.

We have just re-stocked this site following an extended fallow period in 2106

Cooke Aquaculture recently purchased Balta Island Seafare Limited for which this site forms part of along with Swarta Skerry FS0814, Balta harbour FS0449. It is CASs intention to redevelop the Balta Island site with new equipment which will be larger than the previous equipment and thus consolidate all tonnage into a single site. This will have the advantage of ensuring that all equipment is fit for purpose and reduce the overall impact of the operations in the Balta Isle area. Obviously at this stage we are in the early stages of planning the consolidations as such the equipment specified may change. Though the general concept of our plans will remain the same.

No predation events.

No predation events.

The site is currently fallow but is due to be stocked from October 2017. Details for Ardesie B (Registration number: FS0675) completed with Guidance from Marine Scotland

No predation events.

no seal predation events over the period at this site

many fish recorded as seal damage may have been eaten once already dead

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[illegible]

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- no predation events
- no predation events
- no predation events
- no predation events
- no predation events

This site was not stocked in the last cycle. But might be used in 2017.

No predation

Predation events quantified by were there was mortality due to seals.

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Seal predation events quantified by week when there was mortality due to seals.
Seal predation events quantified by week when there was mortality due to seals.
Seal predation events quantified by week when there was mortality due to seals.
Predation events quantified in weeks, in which there was mortality caused by seal.
Predation events quantified in weeks, in which there was mortality caused by seal.
Predation events quantified in weeks, in which there was mortality caused by seal.
Predation events quantified in weeks, in which there was mortality caused by seal.
No seal predation events occurred.

no predation during period in question

No Predation on site
No Predation on site
No predation on site
No Predation
No predataion
No Predation

No predation

No predation

No Predation
No predation

THERE HAVE BEEN NO SEAL PREDATATION EVENTS OVER THE PERIOD 01/10/15 - 30/09/16 FOR LOCHMADD'