

Case No: 2020-0486 Date of visit: 10/11/2020

Time spent on site: 4 hours Main Inspector: [Redacted]

Site No: FS0426 Site Name: Loch Creran (B)
Business No: FB0125 Business Name: Scottish Sea Farms Ltd

Case Types: 1 REP 2 WEL 3 SLI 4 [] 5 [] 6 []

Water Temp (°C): [] Thermometer No: [] FHI 045 completed []

Observations: Region: ST Water type: S CoGP MA: M-36

Dead/weak/abnormally behaving fish present? Y If yes, see additional information/clinical score sheet.
Clinical signs of disease observed? N If yes, see additional information/clinical score sheet.
Gross pathology observed? N If yes, see additional information/clinical score sheet.
Diagnostic samples taken? N

UNI/REG only - if unable to carry out intended visit detail reason below:
[Redacted]

Additional Case Information:

Visit was organised in conjunction with APHA in relation to a welfare complaint made by a third party.
41730 - no of Fish harvested to date.

Timeline of events in relation to mortality and sea lice levels:

Start of September samples were taken for suspected CMS and gills insult, heart inflammation and damage to gills noted. Gill damage from possible environmental insult - CMS was negative in all samples. Minor levels of AGD detected. Slice treatment conducted on 20th of September 2020

Sea lice treatments were planned - 30/09/2020 - but cancelled due to plankton event. Asterionellopsis and Chaetoceros species observed- Event lasted for about a week going by plankton numbers per litre - no abnormal weather.

as soon as mortality increased - mort recovery increased, air lift systems installed the following week, and aeration systems installed as well.

Vets visited the following week - decision was made to halt lice treatments to give fish time to recover from gill issues caused by environmental insult.

Sea lice numbers are now back below the reporting threshold following a round of physical treatments. Thermolicer treatments resumed 15nd of October 2020, with a second round on the 22nd of October 2020 - Selective harvesting was also ongoing during this period.

Diagnostic samples taken throughout mortality event, negatives for CMS. heart inflammation and significant environment type damage to gills noted.

most of badly affected fish have now been removed or harvested through targeted harvesting.

footage shown from the feeding cameras (06/11/2020) - fish looking healthy, no lice damage observed.

Site visit completed with APHA vet on 10/11/2020 - Windy conditions with lots of fresh water present. 9 pens remain stocked after worst affected pens were harvested out. Residual lice damage was observed on some fish in all pens. Damage is now healing and no fresh damage was observed anywhere on site. 2-3 fish were observed hanging near the surface in each pen, however would elicit a escape response when approached with hand net. Site staff netted out 3 fish that that sustained physical damage from pen furniture, these fish had increased numbers of pre adult lice and fish and showed signs of slight gill damage consistent with historic environmental insult, No AGD was observed on these fish. No moribund fish were observed in any of the pens, hanging fish appeared to be flushing gills in freshwater layer near surface. Further mechanical lice treatments are planned for when adult lice numbers start to rise again. Site manager and company vet expressed that gills were looking good considering the recent environmental insult.

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 Date of Visit: **10/11/2020** Inspector(s): **[REDACTED]**

Registration/Authorisation Details

1. Business/site details summary checked by site representative? **Y**
 2. Changes made to details? **N**

Site Details (include cleaner fish for all sections)

Total No facilities	14	Facilities stocked	12	No facilities inspected	12
Species	SAL				
Age group	19S0				
No Fish	263,999				
Mean Fish Wt	3.1kilos				
Next Fallow Date (Site)	Sep-21		Next Input Date (Site)	oct 2021	
Recent (last 4 wks) disease problems?			Y	Any escapes (since last visit)?	N
If yes, detail:	see additional information				

Movement Records

1. Movement records available for inspection? **Y**
 2. Date of last inspection: **10/03/2020**
 3. Are records complete and correctly entered? **Y**
 4. Are movement records available for dead fish and waste? **Y**
 5. Are records complete and correctly entered? **Y**
 6. Are health certificates for introductions (out with GB) available? **N/A**

Transport Records

1. Are any movements carried out by (or on behalf) of the business (not using a STB)? **[REDACTED]**
 If yes, is there a system in place for maintenance of transportation records? **[REDACTED]**

Mortality Records

1. Mortality records available for inspection? **Y**
 2. How are mortalities disposed of? **Incinerated - on site**
 If other detail: **[REDACTED]**
 3. Mortality records complete and correctly entered? **Y**
 4. Recent mortality (last 4 wks): **week 44 0.57% (1769) week 43 8.64 (29101) week 42 (6.66 - 24021) week 41**
 5. Evidence of recent increased/atypical mortalities? **Y**
 If yes, facility nos/no mortality per facility/no stock per facility/reason:
see additional info
 6. Any other peaks in mortality during period checked? **Y**
 If yes, detail: **see additional info**
 7. Have increased (unexplained) mortalities been reported to vet or FHI? **Y**
 If yes, detail action: **Company vets and FHI notified**
 8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet. **Y**

Treatments and Medicines Records

1. Recent treatments (see comment)?	<input type="checkbox"/>	Y
If yes, detail:	TMS Slice	
If other, detail:	Thermolicer	
2. Medicines records available for inspection?	<input type="checkbox"/>	Y
3. Are records complete and correctly entered?	<input type="checkbox"/>	Y
4. Are fish in a withdrawal period?	<input type="checkbox"/>	N
5. If yes, what treatment(s)?	<input type="checkbox"/>	
If other, detail:	<input type="checkbox"/>	
6. Are medicines stored appropriately?	<input type="checkbox"/>	Y

Biosecurity Records

1. Biosecurity records available for inspection?	<input type="checkbox"/>
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	<input type="checkbox"/>
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any <i>increased (unexplained)</i> mortality at the site been included?	<input type="checkbox"/>
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	<input type="checkbox"/>
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?	<input type="checkbox"/>
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	<input type="checkbox"/>
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	<input type="checkbox"/>
8. Have the biosecurity procedures been adequately implemented on site?	<input type="checkbox"/>
If no, detail:	<input type="checkbox"/>

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	<input type="checkbox"/>	Y
2. If yes, are results available for inspection?	<input type="checkbox"/>	Y
3. Any significant results?	<input type="checkbox"/>	Y
If yes, detail (if not detailed under recent disease problems).	see additional info	

Records checked between:	10/03/2020 - 10/11/2020
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Case No:

Site No:

Sea Lice Inspection (Seawater Sites Only)

- 1. Has the site experienced sea lice problems in the previous 4 years?
- 2. Is the CoGP Farm Management Area (or equivalent) followed synchronously on a single year class basis?
- 3. Does the site have access to a range of licenced in-feed and bath sea lice medications (including deltamethrin, azamethiphos and emamectin benzoate) as well as access to suitable biological and/or mechanical control measures, and are these being used in a responsible and timely manner?
- 4. Is there a signed documented farm management agreement or statement relevant to the site and CoGP Farm Management Area (or equivalent)?
- 5. Are sea lice count records available for inspection? (Legal SSI, CoGP Annex 6)
- 6. Do records adequately reflect the required standard specified in the SSI and the CoGP? (Legal SSI, CoGP Annex 6)
- 7. Are sea lice (*L. salmonis*) record levels below the suggested criteria for treatment in the CoGP during the period that records are inspected? (CoGP Annex 6)
- 8. Have average adult female sea lice (*L. salmonis*) numbers per fish been at a level of 3 or above (prior to w/b 10/6/19) or If yes, have these been reported to the Fish Health Inspectorate? If no, FHI see comment.
- 9. Is *C. elongatus* infestation at a level which is considered to cause significant welfare problems? (CoGP 4.3.81, 5.3.50)
- 10. Have therapeutic treatments been administered or other actions taken when *L. salmonis* levels have exceeded the suggested criteria for treatment or where *C. elongatus* is considered to have welfare implications? (CoGP 4.3.82, 5.3.51)
- 11. Has any other action been taken (where applicable)?
- 12. Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded?
- 13. Are treatments, where conducted, carried out in cooperation between participating farms?
- 14. Is there a harvesting strategy for the site, where fewer populations or part populations are held without treatment for
- 15. Is there a site specific written lice management procedure with waypoints describing set actions to deal with recognised
- 16. Do the sea lice levels observed on stocks reflect sea lice count data? If no please detail reasons.

Containment Inspection

- 1. Has the site experienced equipment damage due to predators in the current or previous production cycles?
- 2. Are measures in place to mitigate against the predation experienced on site? (Detail below)
- If other, detail below:
- 3. Have escape incidents or events been experienced on or in the vicinity of the site since the last FHI inspection?
If Yes proceed with questions 4 – 9. If No skip to question 10
- 4. Have these been reported to Scottish Ministers?
- 5. Have these been reported to local DSFB forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
- 6. Have these been reported to the SSPO and local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
- 7. Were methods (if any) used to recover escapees? If yes give detail
- 8. If gill nets were deployed was this action agreed with local wild fish interests and was permission given by Scottish Ministers? (Legal, CoGP – 4.4.38, 5.4.18)
- 9. What action was taken to prevent and minimise the risk of further escapes? (Not covered in code but could be considered under satisfactory measures of the Act)
- 10. Is the site inspected as satisfactory with regards to containment? If no, please detail reason(s)

██████████
Scottish Sea Farms Ltd
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FK7 9JQ
████████████████████

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0125	DATE OF VISIT	10/11/2020
SITE No	FS0426	SITE NAME	Loch Creran (B)
INSPECTOR	██████████	CASE No	20200486

The above site was inspected in conjunction with a veterinary officer from the Animal and Plant Health Agency (APHA) following a report of a potential welfare issue by a member of the public.

A separate report will be issued by the Animal and Plant Health Agency.

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, and to meet the requirements of European Community Council Directive 2006/88/EC.

All epidemiological units were inspected. On this occasion no samples were taken for disease analysis. The Inspector did not observe any clinical signs associated with the listed diseases as described in the Aquatic Animal Health (Scotland) Regulations 2009.

Records

The information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated. The following records were also inspected to ensure that the conditions of authorisation for your Aquaculture Production Business (APB) are being met:

Aquaculture animal and aquaculture animal product movement records were inspected and appeared to be adequately maintained.

Mortality records were inspected and found to be adequately maintained.

Mortality levels had exceeded the reporting criteria since the last inspection and had been reported to the Fish Health Inspectorate as required.

Reports detailing the results of animal health surveillance carried out by or on behalf of the business and/or Marine Scotland were available for inspection.

Inspection under the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2015

Medicine records were inspected and found to be adequately maintained.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

The site was also inspected in accordance with the Aquaculture and Fisheries (Scotland) Act 2007, as amended, with respect to section 3 regarding parasites (sea lice).

On this occasion the site was found to be satisfactory with regards to parasites.

Please contact myself or the duty inspector should you require any further information or have any queries regarding this report.



Signed:

Date: 21/01/2021

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <https://www.gov.scot/publications/fish-health-inspectorate-service-charter/>