

Case No: 2023-0442 Date of visit: 07/11/2023

Time spent on site: 3 hours Main Inspector:

Site No: FS0375 Site Name: Loch Damph

Business No: FB0224 Business Name: Torridon Smolts Ltd

Case Types: 1 VMD 2 3 4 5 6

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

Observations: Region: HI Water type: F CoGP MA:

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

Additional Case Information:

The current stock of fish will be sent to a site in Orkney. One consignment will be sent in Nov 2023 and the final consignment in Spring 2024. At this time the site will be fallow for 6 weeks before being stocked again.

Formalin (Aquacen) treatment prophylactic based on historical disease emergence at this time of year

During inspection of the stock, a small number of fish were observed with a small amount of white growth consistent with Saprolegnia at the base of the pectoral fins.

Mortality from records submitted post inspection: wk 44: 1,220 fish (0.5%), wk 43: 1,486 fish (0.6%), wk 42: 875 fish (0.3%), wk 41: 214 fish (0.1%).

Case No: Site No:

Date of Visit: Inspector(s):

Registration/Authorisation Details

1. Business/site details summary checked by site representative?

2. Changes made to details?

Site Details (include cleaner fish for all sections)

| | | | | | |
|---------------------------------------|---|------------------------|---|--------------------------------|---------------------------------|
| Total No facilities | <input type="text" value="20"/> | Facilities stocked | <input type="text" value="7"/> | No facilities inspected | <input type="text" value="20"/> |
| Species | <input type="text" value="SAL"/> | | | | |
| Age group | <input type="text" value="2023"/> | | | | |
| No Fish | <input type="text" value="258,378"/> | | | | |
| Mean Fish Wt | <input type="text" value="100g"/> | | | | |
| Next Fallow Date (Site) | <input type="text" value="March 2024"/> | Next Input Date (Site) | <input type="text" value="May 2024 (approx.)"/> | | |
| Recent (last 4 wks) disease problems? | <input type="text" value="N"/> | | Any escapes (since last visit)? | <input type="text" value="N"/> | |
| If yes, detail: | <input type="text"/> | | | | |

Movement Records

1. Movement records available for inspection?

2. Date of last inspection:

3. Are records complete and correctly entered?

4. Are movement records available for dead fish and waste?

5. Are records complete and correctly entered?

6. Are health certificates for introductions (outwith GB) available?

Transport Records

1. Are any movements carried out by (or on behalf) of the business (not using a STB)?

If yes, is there a system in place for maintenance of transportation records?

Mortality Records

1. Mortality records available for inspection?

2. How are mortalities disposed of?

If other detail:

3. Mortality records complete and correctly entered?

4. Recent mortality (last 4 wks):

5. Evidence of recent increased/atypical mortalities?

If yes, facility nos/no mortality per facility/no stock per facility/reason:

6. Any other peaks in mortality during period checked?

If yes, detail:

7. Have increased (unexplained) mortalities been reported to vet or FHI?

If yes, detail action:

8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

| | | |
|--|--------------------------|---|
| 1. Recent treatments (see comment)? | <input type="checkbox"/> | Y |
| If yes, detail: | Aquacen (formalin) | |
| If other, detail: | | |
| 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"/> | Y |
| 5. If yes, what treatment(s)? | Aquacen (formalin) | |
| If other, detail: | | |
| 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: | |

Results of Surveillance

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

| | |
|--------------------------|---------------------|
| Records checked between: | 17/11/22 - 07/11/23 |
|--------------------------|---------------------|

Case no: Site No: Date of visit/
Sampling:

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

| Pool/Fish No | | | | | | | | | | | | |
|----------------|--------------|--------------------------------|--------------------------------|----------------------------|--|--|--|--|--|--|--|--|
| Fish nos | 1-5 | 6-11 | 12-17 | | | | | | | | | |
| Pool Group | | | | | | | | | | | | |
| Species | SAL | SAL | SAL | | | | | | | | | |
| Average weight | 0.2000 | 0.1000 | 0.1000 | | | | | | | | | |
| Sex | N/A | N/A | N/A | | | | | | | | | |
| Water Type | FW | FW | FW | | | | | | | | | |
| Stock Details | Stock Origin | Mill Burn (Old Mill) FS0831 | Mill Burn (Old Mill) FS0831 | Ormsary Hatchery FS0681 | | | | | | | | |
| | Facility No | 16 | 17 | 4 | | | | | | | | |



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No FB0224 **DATE OF VISIT** 07/11/2023
SITE No FS0375 **SITE NAME** Loch Damp
CASE No 20230442 **INSPECTOR** [REDACTED]

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

The above site was visited in accordance with the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2015.

Samples were taken to be analysed for veterinary residues.

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.

Medicine records were inspected and found to be adequately maintained.

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

Mortality records were not available for inspection. This point was raised with the site representative during the inspection. Since then, a mortality record has been submitted to the fish health inspectorate and, following examination, appears to be adequately maintained.

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

Signed: [REDACTED]

Fish Health Inspector

Date: 14/11/2023

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

R20

| | | | | | | |
|---|--|--|--|---------------------------------|---------------------------------|---------------------------------|
| Case No: | <input type="text" value="2023-0453"/> | Date of visit: | <input type="text" value="16/11/2023"/> | | | |
| Time spent on site: | <input type="text" value="3.5 hours"/> | Main Inspector: | <input type="text" value=""/> | | | |
| Site No: | <input type="text" value="FS0180"/> | Site Name: | <input type="text" value="Loch Earn"/> | | | |
| Business No: | <input type="text" value="FB0456"/> | Business Name: | <input type="text" value="Dawnfresh Farming Ltd"/> | | | |
| Case Types: | 1 <input type="text" value="ECI"/> | 2 <input type="text" value="CNI"/> | 3 <input type="text" value="VMD"/> | 4 <input type="text" value=""/> | 5 <input type="text" value=""/> | 6 <input type="text" value=""/> |
| Water Temp (°C): | <input type="text" value="8.9"/> | Thermometer No: | <input type="text" value="T274"/> | FHI 045 completed | <input type="text" value=""/> | |
| Observations: | Region: | TA | Water type: | F | CoGP MA | |
| Dead/weak/abnormally behaving fish present? | <input type="text" value="N"/> | If yes, see additional information/clinical score sheet. | | | | |
| Clinical signs of disease observed? | <input type="text" value="N"/> | If yes, see additional information/clinical score sheet. | | | | |
| Gross pathology observed? | <input type="text" value="N"/> | If yes, see additional information/clinical score sheet. | | | | |
| Diagnostic samples taken? | <input type="text" value="N"/> | | | | | |

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

Additional Case Information:

17 pens - 5 8m squares 8m deep nets, 6x 50m circles 12m deep nets, 6x60m circles 12m deep nets

Nets are all 22.5mm dyneema. New top nets recently purchased.

All triploid fish stocked from New Farm Selcoth, next year will also stock from Frandy

Total number on site - 149411, overall average weight across site 1.87kg, biomass 280092kg

Stocking density average 7kg/m³, highest pen is 12kg/m³ stocking density. Circle pens are all stocked with final numbers, only get closer to 15kg/m³ prior to harvest. Swim throughs are conducted at square pens.

Harvesting - pens towed to pier and bled and stunned into harvest bins - cage emptied in 2-4 days - harvesting every few weeks in spring/summer last harvest 18th October next in March 24.

Some higher morts due to PKD, BKD, Otter predation - peaking at 25 PKD, BKD/day and 40 for otter - sporadic - no significant peaks. Average mortality for the whole of 2023 so far is 0.6%

Fish are regularly health checked by staff who are all trained and competent at sampling.

ROV checks conducted on nets - monthly at least, and before towing pens or swim through.

Otter predation has left marks on some fish, particularly pens that had just moved over from the square pens but they are not moribund, lethargic and doing well. These are removed if become lethargic. No damage to equipment from otter predation but damaging fish through the nets.

Inspection and sampling conducted by [REDACTED] observed and audited by [REDACTED]

Case No: Site No:

Date of Visit: Inspector(s):

Registration/Authorisation Details

1. Business/site details summary checked by site representative?

2. Changes made to details?

Site Details (include cleaner fish for all sections)

| | | | | | |
|---------------------------------------|---------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|---------------------------------|
| Total No facilities | <input type="text" value="17"/> | Facilities stocked | <input type="text" value="12"/> | No facilities inspected | <input type="text" value="17"/> |
| Species | <input type="text" value="rtr"/> | <input type="text" value="rtr"/> | <input type="text" value="rtr"/> | <input type="text" value="rtr"/> | <input type="text" value=""/> |
| Age group | <input type="text" value="MVG"/> | <input type="text" value="MVG"/> | <input type="text" value="MVG"/> | <input type="text" value="MVG"/> | <input type="text" value=""/> |
| No Fish | <input type="text" value="15,034"/> | <input type="text" value="62,895"/> | <input type="text" value="47,984"/> | <input type="text" value="23,498"/> | <input type="text" value=""/> |
| Mean Fish Wt | <input type="text" value="3kg"/> | <input type="text" value="2kg"/> | <input type="text" value="1kg"/> | <input type="text" value="<1kg"/> | <input type="text" value=""/> |
| Next Fallow Date (Site) | <input type="text" value="N/A"/> | | Next Input Date (Site) | <input type="text" value="Feb 2024"/> | |
| Recent (last 4 wks) disease problems? | <input type="text" value=""/> | | Any escapes (since last visit)? | <input type="text" value="N"/> | |
| If yes, detail: | <input type="text" value="BKD, PKD"/> | | | | |

Movement Records

1. Movement records available for inspection?

2. Date of last inspection:

3. Are records complete and correctly entered?

4. Are movement records available for dead fish and waste?

5. Are records complete and correctly entered?

6. Are health certificates for introductions (outwith GB) available?

Transport Records

1. Are any movements carried out by (or on behalf) of the business (not using a STB)?

If yes, is there a system in place for maintenance of transportation records?

Mortality Records

1. Mortality records available for inspection?

2. How are mortalities disposed of?

If other detail:

3. Mortality records complete and correctly entered?

4. Recent mortality (last 4 wks):

5. Evidence of recent increased/atypical mortalities?

If yes, facility nos/no mortality per facility/no stock per facility/reason:

6. Any other peaks in mortality during period checked?

If yes, detail:

7. Have increased (unexplained) mortalities been reported to vet or FHI?

If yes, detail action:

8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

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

Biosecurity Records

| | | |
|--|--------------------------|---|
| 1. Biosecurity records available for inspection? | <input type="checkbox"/> | Y |
| 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered? | <input type="checkbox"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? | <input type="checkbox"/> | Y |
| 8. Have the biosecurity procedures been adequately implemented on site? | <input type="checkbox"/> | Y |
| If no, detail: <input type="text"/> | | |

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"/> | N |
| If yes, detail (if not detailed under recent disease problems). <input type="text"/> | | |

| | | |
|--------------------------|----------------------|-------------------------|
| Records checked between: | <input type="text"/> | 20/01/2020 - 16/11/2023 |
|--------------------------|----------------------|-------------------------|

Case no: Site No: Date of visit/
Sampling:

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

| | | | | | | | | | | | | | |
|----------------|--------------|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| Pool/Fish No | | | | | | | | | | | | | |
| Fish nos | F1 | | | | | | | | | | | | |
| Pool Group | | | | | | | | | | | | | |
| Species | RTR | | | | | | | | | | | | |
| Average weight | 750g | | | | | | | | | | | | |
| Sex | N/A | | | | | | | | | | | | |
| Water Type | FW | | | | | | | | | | | | |
| Stock Details | | New Farm FS0680 | | | | | | | | | | | |
| | Stock Origin | | | | | | | | | | | | |
| | Facility No | C10 | | | | | | | | | | | |

| | | | | | | |
|--|---|-----------------------------|--------|----------|-----------|------------|
| Case Number: | 2023-0453 | Site No: | FS0180 | Insp: | | |
| Date of Visit | 16/11/2023 | No of movements/supp./dest. | | | Score | |
| Live fish movements | | 0 | 1-5 | 6-10 | >10 | |
| Movements on (from out with GB) of susceptible species | Frequency of movements on from equivalent MS | 0 | 5 | 10 | 14 | 0 |
| | Frequency of movements on from equivalent zone or compartment including third country | 0 | 9 | 18 | 26 | 0 |
| | Number of suppliers | 0 | 5 | 10 | 14 | 0 |
| Movements off | Frequency of movements off | 0 | 3 | 6 | 10 | 10 |
| | Number of destinations | 0 | 3 | 6 | 10 | 3 |
| Exposure via water | Site contacts | 0 | 1-5 | 6-10 | | |
| Water contacts with other farms (holding species susceptible to same diseases) | Farm is protected (secure water supply through disinfection or borehole) | 0 | | | | 0 |
| | Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion | 1 | 2 | 4 | | 1 |
| | Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion | 1 | 3 | 6 | | 0 |
| | Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion | 1 | 4 | 8 | | 0 |
| Management practices | | None | Secure | Unsecure | | |
| Water contacts with processors | Any processing plant discharging into adjacent waters | 0 | 1 | 2 | | 0 |
| On farm processing within the rules of the directive | No on farm processing | 0 | | | | |
| | Processing own fish (re-cycling risk) | 1 | | | | 1 |
| | Processing fish from MS of equivalent status | 2 | | | | |
| | Processing fish from zone or compartment of equivalent status | 4 | | | | |
| | Processing fish from Category III farm | 8 | | | | |
| | Processing fish from Category V farm | 10 | | | | |
| Disposal of fish and fish by-products | Site's own waste only processed. | 0 | | | | 0 |
| | Common processes with other farms | 3 | | | | |
| | Collection point for waste from other farms | 5 | | | | |
| Use of unpasteurised feeds | No feeding of unpasteurised feed | 0 | | | | 0 |
| | Feeding unpasteurised feed | 5 | | | | |
| Biosecurity | Number of sites | 1 | 2 or 3 | ≥ 4 | | |
| Contacts with other sites | Sites operating from single shorebase | 0 | 1 | 2 | | 0 |
| | Sites sharing staff and equipment | 0 | 1 | 2 | | 0 |
| Disinfection of equipment between sites, use of footbaths etc | Yes | 0 | | | | 0 |
| | No | 1 | | | | |
| CoGP/Regulator | | | | | | |
| Practices in accordance with regulator or industry code of practice | Yes | 0 | | | | 0 |
| | No | 3 | | | | |
| Platform access to cages | Yes | 0 | | | | 0 |
| | No | 2 | | | | |
| Total Rank | | | | | 15 | LOW |

Case No: **2023-0453**

Site No: **FS0180**

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) fallowed 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
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? N
2. Are measures in place to mitigate against the predation experienced on site? (Detail below) Y

Tensioned nets Top nets A.D.D.

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? N
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) Y



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|------------|
| BUSINESS No | FB0456 | DATE OF VISIT | 16/11/2023 |
| SITE No | FS0180 | SITE NAME | Loch Earn |
| CASE No | 20230453 | INSPECTOR | [REDACTED] |

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

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 surveillance frequency category of the site was assessed as low. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every third year. The category of the site will be reassessed on a routine basis and updated as required.

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.

No mortality levels exceeding the reporting criteria have been recorded since the last inspection.

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

The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.

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

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

The site was also inspected in accordance with the Aquaculture and Fisheries (Scotland) Act 2007 with respect to section 5 regarding containment and escapes.

R04 UKAS accredited testing laboratory No. 1964
Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB
Tel - 0131 244 3498 Email - ms.fishhealth@gov.scot
Website - <https://www.gov.scot/policies/fish-health-inspectorate/>

On this occasion the site was found to be satisfactory.

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

Signed:

A black rectangular box redacting the signature of the Fish Health Inspector.

Date: 24/11/2023

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot](https://www.gov.scot/policies/fish-health-inspectorate/) (www.gov.scot)

Case No: 2023-0458 Date of visit: 14/11/2023

Time spent on site: 4h Main Inspector: [REDACTED]

Site No: FS1122 Site Name: Grey Horse Channel

Business No: FB0119 Business Name: Mowi Scotland Ltd

Case Types: 1 ECI 2 CNI 3 SLI 4 VMD 5 DIA 6 [REDACTED]

Water Temp (°C): 10.9 Thermometer No: T173 FHI 045 completed [REDACTED]

Observations: Region: WI Water type: S CoGP MA: W-11

Dead/weak/abnormally behaving fish present? Y If yes, see additional information/clinical score sheet.

Clinical signs of disease observed? Y If yes, see additional information/clinical score sheet.

Gross pathology observed? Y If yes, see additional information/clinical score sheet.

Diagnostic samples taken? Y

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

Additional Case Information:

Peaks in salmon mortality 2022, wk 22 7457 (1.84%), wk 23 4,773 (1.22%), wk 24 5,449 (1.41%), wk 25 5,618 (1.48%), wk 26 7,432 (1.99%), wk 27 8,966 (2.60%), wk 28 4571 (2.03%) all AGD and seal predation with some physical damage. Wk 36 1396 (1.55%) all AGD, wk 37 2013 (1.51%), wk 38 2677 (1.16%), fw treatment losses.

Peaks in salmon mortality 2023, wk 35 14017 (1.23%), wk 36 24 989 (2.21%), wk 37 18820 (1.70%), wk 39 15408 (1.39%), wk 40 47228 (4.43%) AGD poor doers.

Salmon mortalities for the last four weeks, wk 44 32,807 (3.72%), wk 43 26590 (2.93%), wk 42 45,333 (4.75%), wk 41 63,864 (6.27%) mainly AGD and treatment losses but also some poor doers.

Peaks in lumpfish mortality 2023, wk 28 12,932 (7.51%), wk 29 28,381 (17.82%) tenacibaculum.

Peaks in wrasse mortality 2023 wk 41 5957 (19.95%) runts and some AGD recorded.

Lumpfish mortality last four weeks, wk45 159 (0.14%), wk 44 166 (0.15%), wk 43 430 (0.39%) wk 42 511 (0.46%).

Wrasse mortality, last four weeks, wk 45 532 (2.27%), wk 44 45 (0.19%), wk 43 214 (0.90%), wk 42 949 (3.86%)

Most recent treatments have included paramove in August and September, freshwater in November, October and September.

Lice numbers are currently low.

Piscirickettsia recently identified, antibiotic treatment is planned.

A number of lethargic and moribund fish observed in all cages.

Some walkways had minor damage following recent storms, these are to be repaired when possible.

Case No: 2023-0458

Site No: FS1122

Date of Visit: 14/11/2023

Inspector(s):

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 100m circles | Facilities stocked | 14 | No facilities inspected | 14 |
| Species | SAL | WRS | LUM | | |
| Age group | 2023 q2 | Mix wild | 2023 | | |
| No Fish | 710,139 | 23,405 | 109,895 | | |
| Mean Fish Wt | 1.74kg | N/A | N/A | | |
| Next Fallow Date (Site) | August 2024 | | Next Input Date (Site) | March 2025 | |
| Recent (last 4 wks) disease problems? | | | Y | Any escapes (since last visit)? | N |
| If yes, detail: | AGD and Piscirickettsia | | | | |

Movement Records

- 1. Movement records available for inspection? Y
- 2. Date of last inspection: 25/05/2022
- 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 (outwith GB) available? N/A

Transport Records

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

Mortality Records

- 1. Mortality records available for inspection? Y
- 2. How are mortalities disposed of? Other (detail)
- If other detail: whole fish white shore cockles
- 3. Mortality records complete and correctly entered? Y
- 4. Recent mortality (last 4 wks): see additional information
- 5. Evidence of recent increased/atypical mortalities? Y
- If yes, facility nos/no mortality per facility/no stock per facility/reason: see additional information
- 6. Any other peaks in mortality during period checked? Y
- If yes, detail: see additional information, peaks in mortalities recorded in 2022 reported through mortality event reporting.
- 7. Have increased (unexplained) mortalities been reported to vet or FHI? N/A
- If yes, detail action:
- 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 | |
| If other, detail: | | |
| 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"/> | Y |
| 5. If yes, what treatment(s)? | TMS | |
| If other, detail: | | |
| 6. Are medicines stored appropriately? | <input type="checkbox"/> | Y |

Biosecurity Records

| | | |
|--|--------------------------|---|
| 1. Biosecurity records available for inspection? | <input type="checkbox"/> | Y |
| 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered? | <input type="checkbox"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? | <input type="checkbox"/> | Y |
| 8. Have the biosecurity procedures been adequately implemented on site? | <input type="checkbox"/> | Y |
| If no, detail: | | |

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). | Gill health, HSMI, AGD, Piscirickettsia | |

| | |
|--------------------------|-------------------------|
| Records checked between: | 25/5/2022 to 14/11/2023 |
|--------------------------|-------------------------|

Case no: Site No: Date of visit/
Sampling:

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

| Pool/Fish No | F1 | F2 | F3 | F4 | F5 | | | | | | | | |
|----------------|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|--|
| Fish nos | 1 | 2 | 3 | 4 | 5 | 6-7 | 8-9 | 10-11 | 12-13 | 14-15 | | | |
| Pool Group | P1 | P1 | P1 | P1 | P1 | | | | | | | | |
| Species | SAL | SAL | SAL | SAL | SAL | SAL | SAL | SAL | SAL | SAL | | | |
| Average weight | 1.4000 | 1.4000 | 1.4000 | 1.4000 | 1.4000 | 1.4000 | 1.4000 | 1.4000 | 1.4000 | 1.4000 | | | |
| Sex | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | | |
| Water Type | SW | SW | SW | SW | SW | SW | SW | SW | SW | SW | | | |
| Stock Details | | Inchmore | Inchmore | Inchmore | Lochness | Lochness | Lochness | Inchmore | Inchmore | Inchmore | Inchmore | | |
| | Stock Origin | | | | | | | | | | | | |
| Facility No | 11 | 11 | 11 | 10 | 10 | 11 | 6 | 5 | 4 | 7 | | | |

Case no: 2023-0458

Site No: FS1122

Method of killing: Percussive

Date of visit: 14/11/2023

Inspector(s):

Sheet Relevant: Y

S for strong presence: M for medium presence: W for weak presence

| Fish Number | | 1 | 2 | 3 | 4 | 5 | | | | | | | |
|--|-----------------------|---|---|---|---|---|--|--|--|--|--|--|--|
| Time sampled after death (if > 45 minutes) | | | | | | | | | | | | | |
| External Signs | | | | | | | | | | | | | |
| Behaviour | Moribund | W | W | W | W | W | | | | | | | |
| | Lethargic | S | S | S | S | S | | | | | | | |
| | Hanging vertical | | | | | | | | | | | | |
| | Spiralling | | | | | | | | | | | | |
| | Flashing | | | | | | | | | | | | |
| | Loss of equilibrium | | | | | | | | | | | | |
| Body | Dark | | | | | | | | | | | | |
| | Distended abdomen | | | | | | | | | | | | |
| | Anorexic | | | | | | | | | | | | |
| | Scale Oedema | | | | | | | | | | | | |
| Opercula | Shortened | | | | | | | | | | | | |
| | Flared | | | | | | | | | | | | |
| Haemorrhaging | Throat | | | | | | | | | | | | |
| | Ventrum | | | | | | | | | | | | |
| | Base of fins | | | | | | | | | | | | |
| | Elsewhere | | | | | | | | | | | | |
| Eyes | Exophthalmic | | | | | | | | | | | | |
| | Enophthalmic (sunken) | | | | | | | | | | | | |
| | Cataract | | | | | | | | | | | | |
| | Haemorrhagic | | | | | | | | | | | | |
| Gills | Pale | w | m | w | w | w | | | | | | | |
| | Zoned | | | | | w | | | | | | | |
| | Necrotic | m | m | m | m | m | | | | | | | |
| Lesions | Flank | | | | | | | | | | | | |
| | Elsewhere | | | | | | | | | | | | |
| Vent | Inflamed | | | | | | | | | | | | |
| | Trailing faeces | | | | | | | | | | | | |
| Lice Load | Estimate numbers | | | | | | | | | | | | |
| Internal Signs | | | | | | | | | | | | | |
| Ascites | Clear | | | | | | | | | | | | |
| | Bloody | | | | | | | | | | | | |
| Oedema | In tissues | | | | | | | | | | | | |
| Heart | Pale/anaemic | | | | | | | | | | | | |
| | Granulomas | | | | | | | | | | | | |
| | Deformed | m | m | m | m | m | | | | | | | |
| Liver | Petechial haem | | | | | | | | | | | | |
| | Gross haem | | | | | | | | | | | | |
| | Tissue breakdown | | | | | | | | | | | | |
| | Enlarged | | | | | | | | | | | | |
| | Colour number(s) | 4 | 4 | 4 | 4 | 4 | | | | | | | |
| | Granulomas | | | | | | | | | | | | |
| | Lesions | | | | | | | | | | | | |
| Pyloric caeca | Petechial haem | | | | | | | | | | | | |
| | Tubules mauve | m | w | m | | | | | | | | | |
| | Lack of fat | m | w | s | | | | | | | | | |
| Spleen | Enlarged | s | m | s | s | s | | | | | | | |
| | Granulomas | | | s | m | w | | | | | | | |
| Gut | No food present | | | | | | | | | | | | |
| | Yellow pseudo-faeces | s | s | s | s | s | | | | | | | |
| | External haem | | | | | | | | | | | | |
| | Internal haem | | | | | | | | | | | | |
| Body wall | Haemorrhaging | | | | | | | | | | | | |
| Swim bladder | Haemorrhaging | | | | | | | | | | | | |
| | Fluid filled | | | | | | | | | | | | |
| Kidney | Swollen | w | | | | | | | | | | | |
| | Grey | w | | | | | | | | | | | |
| | Granular | w | | | | | | | | | | | |
| | Liquefied | | | | | | | | | | | | |
| General | Parasites present | | | | | | | | | | | | |
| | Anaemia | | | | | | | | | | | | |

Additional comments:

| | | | | | | |
|--|---|-----------------------------|---------------|-----------------|---------------|---------------|
| Case Number: | 2023-0458 | Site No: | FS1122 | Insp: | | |
| Date of Visit | 14/11/2023 | No of movements/supp./dest. | | | Score | |
| Live fish movements | | 0 | 1-5 | 6-10 | >10 | |
| Movements on (from out with GB) of susceptible species | Frequency of movements on from equivalent MS | 0 | 5 | 10 | 14 | 0 |
| | Frequency of movements on from equivalent zone or compartment including third country | 0 | 9 | 18 | 26 | 0 |
| | Number of suppliers | 0 | 5 | 10 | 14 | 0 |
| Movements off | Frequency of movements off | 0 | 3 | 6 | 10 | 10 |
| | Number of destinations | 0 | 3 | 6 | 10 | 3 |
| Exposure via water | Site contacts | 0 | 1-5 | 6-10 | | |
| Water contacts with other farms (holding species susceptible to same diseases) | Farm is protected (secure water supply through disinfection or borehole) | 0 | | | | |
| | Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion | 1 | 2 | 4 | | 2 |
| | Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion | 1 | 3 | 6 | | |
| | Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion | 1 | 4 | 8 | | |
| Management practices | | None | Secure | Unsecure | | |
| Water contacts with processors | Any processing plant discharging into adjacent waters | 0 | 1 | 2 | | 0 |
| On farm processing within the rules of the directive | No on farm processing | 0 | | | | 0 |
| | Processing own fish (re-cycling risk) | 1 | | | | |
| | Processing fish from MS of equivalent status | 2 | | | | |
| | Processing fish from zone or compartment of equivalent status | 4 | | | | |
| | Processing fish from Category III farm | 8 | | | | |
| | Processing fish from Category V farm | 10 | | | | |
| Disposal of fish and fish by-products | Site's own waste only processed. | 0 | | | | |
| | Common processes with other farms | 3 | | | | 3 |
| | Collection point for waste from other farms | 5 | | | | |
| Use of unpasteurised feeds | No feeding of unpasteurised feed | 0 | | | | 0 |
| | Feeding unpasteurised feed | 5 | | | | |
| Biosecurity | Number of sites | 1 | 2 or 3 | ≥ 4 | | |
| Contacts with other sites | Sites operating from single shorebase | 0 | 1 | 2 | | 1 |
| | Sites sharing staff and equipment | 0 | 1 | 2 | | 1 |
| Disinfection of equipment between sites, use of footbaths etc | Yes | 0 | | | | |
| | No | 1 | | | | 1 |
| CoGP/Regulator | | | | | | |
| Practices in accordance with regulator or industry code of practice | Yes | 0 | | | | 0 |
| | No | 3 | | | | |
| Platform access to cages | Yes | 0 | | | | 0 |
| | No | 2 | | | | |
| Total Rank | | | | | 21 | MEDIUM |

Case No: **2023-0458**

Site No: **FS1122**

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) fallowed 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 can these be deployed in a reasonable period of time?
- 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 2 or above (from w/b 10/6/19) during the period that records are inspected?
- 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 sea lice?
- 15. Is there a site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation?
- 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)

Seal pro, top nets, top nets secured to top line.
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)

Case No: 2023-0458

Site No: FS1122

Date of Visit: 14/11/2023

Inspector: [REDACTED]

Point of Compliance

1. Is the farm under inspection located within a farm management area?

Y

If N, no further questions require completion.

Points of Compliance for Both Farm Management Agreements and Statements

2. Has a current farm management agreement or statement (FMAg/S) been prepared?

y

3. Is the current FMAg/S available for inspection?

y

4. Does the FMAg/S identify the relevant farm management area?

y

5. Does the FMAg/S identify the fish farm site(s) to which it applies?

y

6. Does the FMAg/S identify the date of commencement of the agreement or statement?

y

7. Does the FMAg/S identify the date of review?

y

Arrangements for Fish Health Management

8. Does the FMAg/S identify the minimum health standards for the stocks to be introduced to the area or farm?

y

9. Does the FMAg/S identify the vaccination requirements for stocks held in the area or farm?

y

10. Does the FMAg/S identify the species of fish which may be stocked into the area or farm?

y

11. Does the FMAg/S identify the maximum stocking density of any pen on any farm in the area or the individual farm?

y

12. Does the FMAg/S identify the arrangements for the storage and disposal of any dead fish from any fish farm in the area or the individual farm?

Y

Arrangements for The Management of Sea Lice

13. Does the FMAg/S identify arrangements for the sharing of data on sea lice numbers and treatments?

y

14. Does the FMAg/S identify the availability and the use of medicines on farms covered by the agreement of statement?

y

15. Does the FMAg/S identify any requirements for the sensitivity testing of available treatments for sea lice on farms in the area or individual farms?

y

16. Does the FMAg/S identify the circumstances under which biological controls and cleaner fish are to be used on farms in the area or individual farms?

y

17. Does the FMAg/S identify the arrangements for synchronous treatments on farms within the area?

y

Live Fish Movements

18. Does the FMAg/S identify the circumstances when live fish may be introduced or removed from the area or farm?

y

19. Does the FMAg/S identify the arrangements for the movement of live fish on and off sites in the area or individual farms?

y

Harvesting

20. Does the FMAg/S identify acceptable harvest practices on farms in the area or individual farms?

Fallowing

21. Does the FMAg/S identify the dates by which the area or individual farm will be fallow and the earliest date when a farm or area may be restocked?

22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement?

23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?

Point of Compliance for Farm Management Agreements Only

24. Does the farm management agreement include arrangements for persons to become, or cease to be, parties to the agreement?

Management and operation

25. Is the fish farm being managed and operated in accordance with the agreement or statement?

26. What is the version no/date of issue of the FMAg/S?



Case No: **2023-0458** Date of visit: **14/11/2023**
 Site No: **FS1122** Inspector: **[REDACTED]**

| Results Summary | Freq. | Date of Notification | | | | | | |
|---|-------|----------------------|------|------------|------|------------|------|----------------------|
| | | Database | Insp | Phone | Insp | Writing | Insp | 2 nd Insp |
| IHN (PCR) - IHNP | 0/5 | 20/11/2023 | | 20/11/2023 | | 15/12/2023 | | |
| IPN (PCR) - IPNM | 0/5 | 20/11/2023 | | 20/11/2023 | | 15/12/2023 | | |
| ISA (real time qPCR - heart & kidney) - ISAQ | 0/5 | 20/11/2023 | | 20/11/2023 | | 15/12/2023 | | |
| Piscine myocarditis virus (CMS) (PCR) - PMVP | 0/5 | 20/11/2023 | | 20/11/2023 | | 15/12/2023 | | |
| Salmonid alphavirus (SAV) (PCR) - SALP | 0/5 | 20/11/2023 | | 20/11/2023 | | 15/12/2023 | | |
| VHS (PCR) - VHSP | 0/5 | 20/11/2023 | | 20/11/2023 | | 15/12/2023 | | |
| Paranucleospora theridion (PCR) - PNST | 5/5 | 21/11/2023 | | 22/11/2023 | | 15/12/2023 | | |
| Salmon gill poxvirus (PCR) - SPVP | 5/5 | 21/11/2023 | | 22/11/2023 | | 15/12/2023 | | |
| AGD (Neoparamoeba perurans) (PCR) - AGDQ | 4/5 | 21/11/2023 | | 22/11/2023 | | 15/12/2023 | | |
| Vibrio species (culture) - VSPE | 3/5 | 28/11/2023 | | 28/11/2023 | | 15/12/2023 | | |
| Piscirickettsia salmonis (SRS) (histology) - PISH | 3/5 | 06/12/2023 | | 06/12/2023 | | 15/12/2023 | | |
| Amoebic gill disease (histology) - AMGD | 2/4 | 06/12/2023 | | 06/12/2023 | | 15/12/2023 | | |
| Epitheliocystis - EPIT | 2/4 | 06/12/2023 | | 06/12/2023 | | 15/12/2023 | | |
| Gill pathology - GPAT | 4/4 | 06/12/2023 | | 06/12/2023 | | 15/12/2023 | | |
| Granuloma - GRAN | 1/5 | 06/12/2023 | | 06/12/2023 | | 15/12/2023 | | |
| Heart pathology - HPAT | 5/5 | 06/12/2023 | | 06/12/2023 | | 15/12/2023 | | |
| Spleen pathology - SPAT | 3/5 | 06/12/2023 | | 06/12/2023 | | 15/12/2023 | | |
| Kidney pathology - KPAT | 5/5 | 06/12/2023 | | 06/12/2023 | | 15/12/2023 | | |
| Piscirickettsia salmonis (SRS) (PCR) - PISP | 3/3 | 06/12/2023 | | 06/12/2023 | | 15/12/2023 | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |

| Report Summary | Date | Insp | 2 nd Insp |
|-----------------|------------|------|----------------------|
| ECI,CNI,SLI,VMD | 22/11/2023 | | |
| DIA | 15/12/2023 | | |
| | | | |
| | | | |

| | | | |
|--|--|------------|------------|
| | | [Redacted] | [Redacted] |
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FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|--------------------|
| BUSINESS No | FB0119 | DATE OF VISIT | 14/11/2023 |
| SITE No | FS1122 | SITE NAME | Grey Horse Channel |
| CASE No | 20230458 | INSPECTOR | [REDACTED] |

Section 1: Summary

The above site was inspected following reports of increased mortalities. A number of lethargic and moribund fish were observed in all pens, five were removed for further examination and subsequent diagnostic sampling.

Histopathology examination revealed mild pathology consistent with amoebic gill disease (confirmed by qPCR), pathology consistent with salmonid rickettsial septicaemia (SRS) (confirmed by qPCR) and one fish also displayed massive numbers of widespread eosinophilic granular cells.

Vibrio sp. was identified on plates taken from kidney material, the level and purity of growth overall would not suggest that this bacterium would be implicated as a primary pathogen, however the purity of growth observed in kidney material of F3 would suggest that the health of this individual fish may be affected.

Samples tested positive for the gill related pathogens: *Paranucleospora theridion*, salmon gill poxvirus (SGPV).

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

Section 2: Case Detail

Observations

Elevated mortalities had been occurring on site since week 35 and peaking in wk 41 attributed mainly to AGD, mortalities have reduced but remained elevated. *Piscirickettsia* had recently been isolated and an antibiotic treatment was planned.

On inspection of the stocks a number of lethargic and moribund fish were observed in all pens, five were removed for further examination and diagnostic sampling.

All five fish sampled were lethargic and moribund with pale and necrotic gills with slight zoning in F5.

Internally all fish had deformed hearts. The pyloric caeca of F1-3 lacked fat and had mauve tubules. Splenomegaly was noted in all fish with granulomas on F3-5. The kidney of F1 was slightly swollen, grey and granular and yellow pseudo faeces was present in all fish.

Samples

Samples were collected from five fish according to the table below:

| Fish number | Facility number | Species | Stage | Origin |
|-------------|-----------------|----------|---------------|-----------|
| F1-3 | 11 | A.salmon | 1.7kg 2023 Q2 | Inchmore |
| F4-5 | 10 | A.salmon | 1.7kg 2023 Q2 | Loch Ness |

Results

Bacteriology: Kidney and gill material from F1-5 were inoculated onto appropriate media for the isolation of bacteria.

The following bacteria was isolated:

- *Vibrio* sp. (kidney F1,3 and 5)

Tissue samples from F1, 3 and 4 were tested for segments of nucleic acid indicative of the presence of the bacteria specified below using real-time PCR (qPCR).

Piscirickettsia salmonis

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|-------------|-----------------------------|-----------|-------|-------|-----------------------|
| F1 | 22.10 | 27.10 | 26.95 | 26.93 | POSITIVE |
| F3 | 21.36 | 21.76 | 21.19 | 21.61 | POSITIVE |
| F4 | 21.55 | 35.25 | 35.07 | 35.10 | POSITIVE |

Virology: Tissue samples were tested for segments of nucleic acid indicative of the presence of the pathogens specified below using real-time PCR (qPCR).

Salmon gill poxvirus (SGPV)

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|-------------|-----------------------------|-----------|-------|-------|-----------------------|
| F1 | 21.74 | 39.26 | 39.54 | >40 | POSITIVE |
| F2 | 21.13 | 36.84 | 37.78 | 37.88 | POSITIVE |
| F3 | 21.45 | 34.61 | 34.58 | 34.19 | POSITIVE |
| F4 | 21.93 | 30.80 | 30.53 | 30.32 | POSITIVE |
| F5 | 22.51 | 29.19 | 29.34 | 29.03 | POSITIVE |

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), infectious pancreatic necrosis virus (IPNV), infectious salmon anaemia virus (ISAV), salmonid alphavirus (SAV) and viral haemorrhagic septicemia virus (VHSV) and piscine myocarditis virus (PMCV).

Parasitology: Tissue samples were tested for segments of nucleic acid indicative of the presence of the parasites specified below using real-time PCR (qPCR).

Paranucleospora theridion

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|-------------|-----------------------------|-----------|-------|-------|-----------------------|
| F1 | 21.74 | 28.07 | 28.00 | 27.96 | POSITIVE |
| F2 | 21.13 | 29.26 | 29.78 | 29.54 | POSITIVE |
| F3 | 21.45 | 25.87 | 25.54 | 25.83 | POSITIVE |
| F4 | 21.93 | 32.03 | 32.39 | 32.67 | POSITIVE |
| F5 | 22.51 | 31.53 | 31.65 | 32.10 | POSITIVE |

Neoparamoeba perurans (AGD)

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|-------------|-----------------------------|-----------|-------|-------|-----------------------|
| F1 | 21.74 | 31.12 | 30.94 | 30.90 | POSITIVE |
| F2 | 21.13 | 29.04 | 29.49 | 29.35 | POSITIVE |
| F3 | 21.45 | 27.20 | 27.04 | 27.44 | POSITIVE |
| F4 | 21.93 | 33.71 | 33.83 | 33.10 | POSITIVE |
| F5 | - | - | - | - | Negative |

Histology: Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from F1-5. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

Gill: Foci of filament necrosis with of few round blue structures resembling bacteria that stained Gram-negative (likely *Piscirickettsia* sp.) (F1, F3, F4). Few basophilic epithelial inclusions (likely epitheliocystis) observed in F2, F3 and few amoeboid cells resembling *Neoparamoeba perurans* observed F2, F3. F3 also displayed cell debris with bacteria associated among gill filaments. Lamellar telangiectasia with multifocal thrombosis (F1-F4) and free blood among gill filaments.

Skin & Muscle: Some isolated white fibre degeneration (F4).

Heart: Mild, multifocal myocarditis (F1, F5) some with round blue structures resembling bacteria (likely *Piscirickettsia* sp.) (F1). Ranging from mild to moderate, epicarditis and some with round blue structures resembling bacteria (likely *Piscirickettsia* sp.) (F1, F2, F3, F4).

Gut and pyloric caeca: Peritonitis, mild, multifocal (F1, F2, F3, F4) and presence of some to few round blue structures resembling bacteria (likely *Piscirickettsia* sp.) (F1, F2, F3).

Pancreas: Within normal range.

Liver: Capsulitis (F3) with few round blue structures resembling bacteria (likely *Piscirickettsia* sp.) (F1, F2). Hepatocellular necrosis, mild, multifocal (F1, F4) with few round blue structures resembling bacteria that stained Gram-negative (likely *Piscirickettsia* sp.) (F1). Hepatocellular vacuolation (macrovesicles), mild, multifocal (F2), some cuffing (F2). F4 also displayed a granuloma-like structure displaying some unknown parasite-like structures walled-off.

Kidney: Interstitial cell (haemopoietic) necrosis (F1) with few intracellular round blue structures resembling bacteria that stained Gram-negative (likely *Piscirickettsia* sp.) (F1, F3, F4). Some renal tubules display some hyaline droplets (F2, F4, F5). Massive numbers of eosinophilic granular cells observed interstitial cell (haemopoietic) of F3.

Spleen: Slightly congested and some evidence of erythrophagocytosis (F1). F1, F5 exhibited parenchymal necrosis with few round blue structures resembling bacteria that stained Gram-negative (likely *Piscirickettsia* sp.) (F1, F3). Massive (diffuse) numbers of eosinophilic granular cells observed on the parenchymal tissue of F3.

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

Signed:

A black rectangular box redacting the signature of the Fish Health Inspector.

Fish Health Inspector

Date: 12/12/2023

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/resources/consultations-petitions-and-statements/fish-health-inspectorate-service-charter-2023-2025/)



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|--------------------|
| BUSINESS No | FB0119 | DATE OF VISIT | 14/11/2023 |
| SITE No | FS1122 | SITE NAME | Grey Horse Channel |
| CASE No | 20230458 | INSPECTOR | [REDACTED] |

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

All epidemiological units were inspected. Samples were taken for diagnostic purposes. A separate report will be issued detailing the results of these tests.

Records

The surveillance frequency category of the site was assessed as medium. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every second year. The category of the site will be reassessed on a routine basis and updated as required.

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 Directorate were available for inspection.

The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.

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.

Samples were taken to be analysed for veterinary residues.

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), section 4A regarding fish farm management agreements and statements and section 5 regarding containment and escapes.

On this occasion the site was found to be satisfactory with regards to parasites, fish farm management agreements and statements, containment and escapes.

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

Signed:



Date: 22/11/2023

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

| | | | | | | |
|---|--|--|--|---------------------------------|---------------------------------|---------------------------------|
| Case No: | <input type="text" value="2023-0478"/> | Date of visit: | <input type="text" value="01/11/2023"/> | | | |
| Time spent on site: | <input type="text" value="3 hours"/> | Main Inspector: | <input type="text" value=""/> | | | |
| Site No: | <input type="text" value="FS0264"/> | Site Name: | <input type="text" value="Inverpolly"/> | | | |
| Business No: | <input type="text" value="FB0132"/> | Business Name: | <input type="text" value="Finfish Ltd"/> | | | |
| Case Types: | 1 <input type="text" value="ECI"/> | 2 <input type="text" value="CNI"/> | 3 <input type="text" value="VMD"/> | 4 <input type="text" value=""/> | 5 <input type="text" value=""/> | 6 <input type="text" value=""/> |
| Water Temp (°C): | <input type="text" value="7.1"/> | Thermometer No: | <input type="text" value="T155"/> | FHI 045 completed | <input type="text" value=""/> | |
| Observations: | Region: | HI | Water type: | F | CoGP MA | |
| Dead/weak/abnormally behaving fish present? | <input type="text" value="N"/> | If yes, see additional information/clinical score sheet. | | | | |
| Clinical signs of disease observed? | <input type="text" value="N"/> | If yes, see additional information/clinical score sheet. | | | | |
| Gross pathology observed? | <input type="text" value="N"/> | If yes, see additional information/clinical score sheet. | | | | |
| Diagnostic samples taken? | <input type="text" value="N"/> | | | | | |

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

Additional Case Information:

Morts ensiled on site and moved off once a year. Ferguson to Barkip

2024 Q2 fish on site being moved to Arkaig this year. Were input as ova from Ireland- Kindrum. Next input Jan 2024 from Kindrum.

Brood fish were in LLB but have now moved to Carnasserie for stripping.

last treatment May 2023 -Aquasen - Formalin, Cress Bronapol.

22/5/23 - 22/5/23 Florfenical for RTFS. -1000 degree days. Medicine mixed on site.

Paperwork and sampling [REDACTED], Inspection [REDACTED] and [REDACTED] (supervised)

Case No: **2023-0478** Site No: **FS0264**

Date of Visit: **01/11/2023** Inspector(s): **[REDACTED]**

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

| | | | | |
|---------------------------------------|-------------------|------------------------|--------------------------------|-------------------|
| Total No facilities | 128 | Facilities stocked | 39 | No facilities in: |
| Species | sal | | | |
| Age group | Q2 2024 | | | |
| No Fish | 479,273 | | | |
| Mean Fish Wt | 45g | | | |
| Next Fallow Date (Site) | end Nov 23 | Next Input Date (Site) | Jan 2024 | Kind |
| Recent (last 4 wks) disease problems? | | N | Any escapes (since last visit) | |
| If yes, detail: | [REDACTED] | | | |

Movement Records

1. Movement records available for inspection?
2. Date of last inspection:
3. Are records complete and correctly entered?
4. Are movement records available for dead fish and waste?
5. Are records complete and correctly entered?
6. Are health certificates for introductions (outwith GB) available?

Transport Records

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

Mortality Records

1. Mortality records available for inspection?
 2. How are mortalities disposed of? **Ensiled - on site**
- If other detail: **[REDACTED]**
3. Mortality records complete and correctly entered?
 4. Recent mortality (last 4 wks): **0.08% per week for last 4 weeks. - weeks 40 to 43.**
 5. Evidence of recent increased/atypical mortalities?
- If yes, facility nos/no mortality per facility/no stock per facility/reason:
[REDACTED]
6. Any other peaks in mortality during period checked?
- If yes, detail: **weeks 2023; 19 7.89%(RTFS), 20 7.47%(RTFS). 21 7.53%(RTFS), 25 8.01% (costia 3.2%(RTFS)**
7. Have increased (unexplained) mortalities been reported to vet or FHI?
- If yes, detail action: **[REDACTED]**
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

1. Recent treatments (see comment)?

If yes, detail:

If other, detail:

2. Medicines records available for inspection?

3. Are records complete and correctly entered?

4. Are fish in a withdrawal period?

5. If yes, what treatment(s)?

If other, detail:

6. Are medicines stored appropriately?

Biosecurity Records

1. Biosecurity records available for inspection?

2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?

3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any *increased* (or *unusual*) mortality at the site been included?

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 *how* and *when* that will be notified to Scottish Ministers?

5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status certification if required)?

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.)?

7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals at the site?

8. Have the biosecurity procedures been adequately implemented on site?

If no, detail:

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?

2. If yes, are results available for inspection?

3. Any significant results?

If yes, detail (if not detailed under recent disease problems).

PKD in September, SGPV J

Records checked between:

9/11/22- 31/10/23

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|------------------------|-----|
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| uly September reports. | | |
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Case no: Site No: Date of visit/
Sampling:

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

| | | | | | | | | | | | | |
|----------------|-----|---------------|---------------|--|--|--|--|--|--|--|--|--|
| Pool/Fish No | | | | | | | | | | | | |
| Fish nos | 1-3 | 4-6 | | | | | | | | | | |
| Pool Group | | | | | | | | | | | | |
| Species | | | | | | | | | | | | |
| Average weight | 50g | 50g | | | | | | | | | | |
| Sex | | | | | | | | | | | | |
| Water Type | FW | FW | | | | | | | | | | |
| Stock Details | | | | | | | | | | | | |
| | | Kindrum Fanad | Kindrum Fanad | | | | | | | | | |
| Stock Origin | | | | | | | | | | | | |
| Facility No | A8 | A5 | | | | | | | | | | |

| | | | | | | |
|--|---|-----------------------------|--------|----------|-----------|---------------|
| Case Number: | 2023-0478 | Site No: | FS0264 | Insp: | | |
| Date of Visit | 01/11/2023 | No of movements/supp./dest. | | | Score | |
| Live fish movements | | 0 | 1-5 | 6-10 | >10 | |
| Movements on (from out with GB) of susceptible species | Frequency of movements on from equivalent MS | 0 | 5 | 10 | 14 | 5 |
| | Frequency of movements on from equivalent zone or compartment including third country | 0 | 9 | 18 | 26 | |
| | Number of suppliers | 0 | 5 | 10 | 14 | 5 |
| Movements off | Frequency of movements off | 0 | 3 | 6 | 10 | 10 |
| | Number of destinations | 0 | 3 | 6 | 10 | 3 |
| Exposure via water | Site contacts | 0 | 1-5 | 6-10 | | |
| Water contacts with other farms (holding species susceptible to same diseases) | Farm is protected (secure water supply through disinfection or borehole) | 0 | | | | 0 |
| | Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion | 1 | 2 | 4 | | |
| | Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion | 1 | 3 | 6 | | |
| | Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion | 1 | 4 | 8 | | |
| Management practices | | None | Secure | Unsecure | | |
| Water contacts with processors | Any processing plant discharging into adjacent waters | 0 | 1 | 2 | | 0 |
| On farm processing within the rules of the directive | No on farm processing | 0 | | | | 0 |
| | Processing own fish (re-cycling risk) | 1 | | | | |
| | Processing fish from MS of equivalent status | 2 | | | | |
| | Processing fish from zone or compartment of equivalent status | 4 | | | | |
| | Processing fish from Category III farm | 8 | | | | |
| | Processing fish from Category V farm | 10 | | | | |
| Disposal of fish and fish by-products | Site's own waste only processed. | 0 | | | | 0 |
| | Common processes with other farms | 3 | | | | |
| | Collection point for waste from other farms | 5 | | | | |
| Use of unpasteurised feeds | No feeding of unpasteurised feed | 0 | | | | 0 |
| | Feeding unpasteurised feed | 5 | | | | |
| Biosecurity | Number of sites | 1 | 2 or 3 | ≥ 4 | | |
| Contacts with other sites | Sites operating from single shorebase | 0 | 1 | 2 | | 0 |
| | Sites sharing staff and equipment | 0 | 1 | 2 | | 0 |
| Disinfection of equipment between sites, use of footbaths etc | Yes | 0 | | | | 0 |
| | No | 1 | | | | |
| CoGP/Regulator | | | | | | |
| Practices in accordance with regulator or industry code of practice | Yes | 0 | | | | 0 |
| | No | 3 | | | | |
| Platform access to cages | Yes | 0 | | | | 0 |
| | No | 2 | | | | |
| Total Rank | | | | | 23 | MEDIUM |

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) fallowed 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 can these be deployed in a reasonable period of time?
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 2 or above (from w/b 10/6/19) during the period that records are inspected?
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 sea lice?
15. Is there a site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation?
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:

Rentokil, tanks indoors and tank covers on outside tanks.

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)

| |
|---|
| Site No: FS0264 |
| Case No: 2023-0478 |
| Nature of non-compliance: |
| Action taken (FHI): |
| Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology |





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|------------|
| BUSINESS No | FB0132 | DATE OF VISIT | 01/11/2023 |
| SITE No | FS0264 | SITE NAME | Inverpolly |
| CASE No | 20230478 | INSPECTOR | [REDACTED] |

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

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 surveillance frequency category of the site was assessed as medium. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every second year. The category of the site will be reassessed on a routine basis and updated as required.

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 Directorate were available for inspection.

The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.

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. Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

R04 UKAS accredited testing laboratory No. 1964
Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB
Tel - 0131 244 3498 Email - ms.fishhealth@gov.scot
Website - <https://www.gov.scot/policies/fish-health-inspectorate/>

The site was also inspected in accordance with the Aquaculture and Fisheries (Scotland) Act 2007 with respect to section 5 regarding containment and escapes.

On this occasion the site was found to be satisfactory.

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

Signed:



Fish Health Inspector

Date: 22/11/2023

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

Case No: 2023-0479 Date of visit: 01/11/2023

Time spent on site: 4 hours Main Inspector:

Site No: FS0621 Site Name: Loch A Chairn Bhain
Business No: FB0398 Business Name: Loch Duart Ltd

Case Types: 1 VMD 2 DIA 3 4 5 6

Water Temp (°C): 12.6 Thermometer No: T155 FHI 045 completed

Observations: Region: HI Water type: S CoGP MA M-6

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

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

Additional Case Information:

Mort reports weeks 11/9/23 1.01% seal predation; 2/10/23 2.15% Seal predation; 9/10/23 1.57 (updated to 2.15%) Seal predation. Site fitted with high-density polyethylene - HDPE pen nets & predator net

gill health treating - finished last Monday. FW treatment.

wrasse wild caught - Skye and Scourie and local. Not vaccinated

Harvests dead haul to Dingwall. Recorded in Fish Talk

Morts DHK waste - whole fish in skips at Badcall shore base - transfer notes- of movements off to Fordyce in Portsoy.

All fish on site from Loch Duart - Loch na Thule and Duart Mhor Hatchery

Morts wk 38 0.86%; wk39 0.98%; wk40 2.15%, wk 41 2.15% - seal predation and gill issues (wks 40 and 41)

fish taken for VMD on starve for FW wellboat treatment

Site inspection, [REDACTED] and [REDACTED] (supervised). Sampling [REDACTED] observed by [REDACTED]

Case No: Site No:
 Date of Visit: Inspector(s):

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

| | | | | | |
|---------------------------------------|---------------------------------------|-------------------------------------|-----------------------------------|---|---------------------------------|
| Total No facilities | <input type="text" value="14"/> | Facilities stocked | <input type="text" value="12"/> | No facilities | <input type="text" value="12"/> |
| Species | <input type="text" value="sal"/> | <input type="text" value="wrasse"/> | | | |
| Age group | <input type="text" value="S1 2023"/> | <input type="text" value="adult"/> | | | |
| No Fish | <input type="text" value="380,000"/> | <input type="text" value="8,000"/> | | | |
| Mean Fish Wt | <input type="text" value="900g"/> | <input type="text" value="85g"/> | | | |
| Next Fallow Date (Site) | <input type="text" value="Nov 2024"/> | | Next Input Date (Site) | <input type="text" value="March 2025"/> | |
| Recent (last 4 wks) disease problems? | | | Y Any escapes (since last visit)? | <input type="text" value="N"/> | |
| If yes, detail: | <input type="text" value="AGD"/> | | | | |

Movement Records

1. Movement records available for inspection?
2. Date of last inspection:
3. Are records complete and correctly entered?
4. Are movement records available for dead fish and waste?
5. Are records complete and correctly entered?
6. Are health certificates for introductions (outwith GB) available?

Transport Records

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

Mortality Records

1. Mortality records available for inspection?
2. How are mortalities disposed of?
 If other detail:
3. Mortality records complete and correctly entered?
4. Recent mortality (last 4 wks):
5. Evidence of recent increased/atypical mortalities?
 If yes, facility nos/no mortality per facility/no stock per facility/reason:
6. Seal predation and gill health across the site
6. Any other peaks in mortality during period checked?
 If yes, detail:
7. Have increased (unexplained) mortalities been reported to vet or FHI?
 If yes, detail action:
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

- 1. Recent treatments (see comment)? N
 If yes, detail:
- If other, detail:
- 2. Medicines records available for inspection? Y
- 3. Are records complete and correctly entered? Y
- 4. Are fish in a withdrawal period? N
- 5. If yes, what treatment(s)?
- If other, detail:
- 6. Are medicines stored appropriately? Y

Biosecurity Records

- 1. Biosecurity records available for inspection?
- 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?
- 3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any *increased (unexplained)* mortality at the site been included?
- 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 *how* and *when* that will be notified to Scottish Ministers?
- 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?
- 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.)?
- 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?
- 8. Have the biosecurity procedures been adequately implemented on site?
- If no, detail:

Results of Surveillance

- 1. Has any animal health surveillance been carried out by, or on behalf of, the business? Y
- 2. If yes, are results available for inspection? Y
- 3. Any significant results? N
- If yes, detail (if not detailed under recent disease problems).

Records checked between:

Case no: Site No: Date of visit/
Sampling:

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

| Pool/Fish No | F1 | F2 | F3 | F4 | | | | | | | | |
|----------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|--|--|--|
| Fish nos | 1 | 2 | 3 | 4 | 5-6 | 7 | 8 | 9 | | | | |
| Pool Group | | | | | | | | | | | | |
| Species | SAL | SAL | SAL | SAL | SAL | SAL | SAL | SAL | | | | |
| Average weight | 600g | 600g | 600g | 600g | 900g | 900g | 900g | 900g | | | | |
| Sex | | | | | | | | | | | | |
| Water Type | SW | SW | SW | SW | SW | SW | SW | SW | | | | |
| Stock Details | | Loch Duart | Loch Duart | Loch Duart | Loch Duart | Loch Duart | Loch Duart | Loch Duart | Loch Duart | | | |
| | Stock Origin | | | | | | | | | | | |
| Facility No | 11 | 11 | 11 | 11 | 4 | 5 | 3 | 2 | | | | |

Case no: 2023-0479

Site No: FS0621

Method of killing: Percussive

Date of visit: 01/11/2023

Inspector(s):

Sheet Relevant: Y

S for strong presence: M for medium presence: W for weak presence

| Fish Number | | 1 | 2 | 3 | 4 | | | | |
|--|-----------------------|--------|-------|--------|---|--|--|--|--|
| Time sampled after death (if > 45 minutes) | | 1 hour | 1hour | 1 hour | | | | | |
| External Signs | | | | | | | | | |
| Behaviour | Moribund | | | | | | | | |
| | Lethargic | S | S | S | S | | | | |
| | Hanging vertical | | | | | | | | |
| | Spiralling | | | | | | | | |
| | Flashing | | | | | | | | |
| | Loss of equilibrium | | | | | | | | |
| Body | Dark | | | | | | | | |
| | Distended abdomen | | | | | | | | |
| | Anorexic | | | M | | | | | |
| | Scale Oedema | | | | | | | | |
| Opercula | Shortened | | | | | | | | |
| | Flared | | | | | | | | |
| Haemorrhaging | Throat | | | | | | | | |
| | Ventrum | | | | | | | | |
| | Base of fins | | | | | | | | |
| | Elsewhere | | | | | | | | |
| Eyes | Exophthalmic | | | | | | | | |
| | Enophthalmic (sunken) | | | | | | | | |
| | Cataract | | | | | | | | |
| | Haemorrhagic | | | | | | | | |
| Gills | Pale | S | S | S | S | | | | |
| | Zoned | | | | | | | | |
| | Necrotic | | | | | | | | |
| Lesions | Flank | | | | | | | | |
| | Elsewhere | | | | | | | | |
| Vent | Inflamed | | | | | | | | |
| | Trailing faeces | | | | | | | | |
| Lice Load | Estimate numbers | 0 | 0 | 0 | 0 | | | | |
| Internal Signs | | | | | | | | | |
| Ascites | Clear | | | | | | | | |
| | Bloody | | | | | | | | |
| Oedema | In tissues | | | | | | | | |
| Heart | Pale/anaemic | | | | | | | | |
| | Granulomas | | | | | | | | |
| | Deformed | | | | | | | | |
| Liver | Petechial haem | | | | | | | | |
| | Gross haem | | | | | | | | |
| | Tissue breakdown | | | | | | | | |
| | Enlarged | | | | | | | | |
| | Colour number(s) | | | | | | | | |
| | Granulomas | | | | | | | | |
| | Lesions | | | | | | | | |
| Pyloric caeca | Petechial haem | | | | | | | | |
| | Tubules mauve | | | | | | | | |
| | Lack of fat | | | | | | | | |
| Spleen | Enlarged | | M | | | | | | |
| | Granulomas | | | | | | | | |
| Gut | No food present | S | S | S | S | | | | |
| | Yellow pseudo-faeces | | S | | | | | | |
| | External haem | | | | | | | | |
| | Internal haem | | | | | | | | |
| Body wall | Haemorrhaging | | | | | | | | |
| Swim bladder | Haemorrhaging | | | | | | | | |
| | Fluid filled | | | | | | | | |
| Kidney | Swollen | | | | | | | | |
| | Grey | | | | | | | | |
| | Granular | | | | | | | | |
| | Liquefied | | | | | | | | |
| General | Parasites present | | | | | | | | |
| | Anaemia | | | | | | | | |

Additional comments:

Patches on gills of all fish. F2 adhesions in body cavity, F3 adhesions and melanisation, F4 spinal deformation near tail and adhesions in body cavity

Sampling started 45 mins after fish killed and finished 1hour 45 mins after killing



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No FB0398
SITE No FS0621
CASE No 20230479

DATE OF VISIT 01/11/2023
SITE NAME Loch A Chairn Bhain
INSPECTOR [REDACTED]

Section 1: Summary

Loch A Chairn Bhain was visited for a routine inspection. During the inspection of the pens four fish were removed for diagnostic examination.

Histopathology examination revealed complex pathology. There was pathology consistent with salmonid rickettsial septicaemia (SRS), which was confirmed via qPCR. Gills displayed multifocal, mild, hyperplastic branchitis. Epitheliocystis (likely *Brachiomonas* sp.) was also observed. Gills tested positive by PCR for *Paranucleospora theridion*, salmon gill poxvirus and *Neoparamoeba perurans*.

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

Section 2: Case Detail

Observations

Loch A Chairn Bhain was visited for a routine inspection. Mortality levels for the site had been above the reporting threshold for the previous two weeks at 2.15% and had been attributed to seal predation and gill issues. On inspection of the pens several moribund and lethargic fish were observed in the corners. Four were removed for diagnostics examination.

Externally all fish displayed pale gills with white patches. Fish 3 was under weight and fish 4 had a spinal deformity near the tail.

Internally, fish 2 had an enlarged spleen and none of the fish had food present in the gut. Yellow pseudo faeces were present in the gut of fish 2. Fish 2, 3 and 4 had adhesions in the body cavity.

Samples

Samples were collected from four fish according to the table below:

| Fish number | Facility number | Species | Stage | Origin |
|-------------|-----------------|-----------------|---------------|------------|
| 1-4 | 11 | Atlantic salmon | 2023 S1 @600g | Loch Duart |

Results

Bacteriology: Kidney and gill material from four fish were inoculated onto appropriate media for the isolation of bacteria.

Pseudomonas fluorescens was identified on plates taken from gill material of all 4 fish. The level and purity of growth would not suggest this bacterium would be implicated as a primary pathogen.

Tissue samples from F1 and F2 were tested for segments of nucleic acid indicative of the presence of the pathogens specified below using real-time PCR (qPCR).

Piscirickettsia salmonis

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|-------------|-----------------------------|-----------|-------|-------|-----------------------|
| F1 | 22.47 | 23.83 | 23.81 | 23.74 | POSITIVE |
| F2 | 22.95 | 26.84 | 26.84 | 26.91 | POSITIVE |

Virology: Tissue samples were tested for segments of nucleic acid indicative of the presence of the pathogens specified below using real-time PCR (qPCR).

Salmon Gill Poxvirus (SGPV)

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|-------------|-----------------------------|-----------|-------|-------|-----------------------|
| F1 | 21.85 | 26.57 | 26.39 | 26.50 | POSITIVE |
| F2 | 22.24 | 24.48 | 24.49 | 24.53 | POSITIVE |
| F3 | 22.36 | 25.20 | 25.10 | 25.08 | POSITIVE |
| F4 | 22.69 | 27.58 | 27.48 | 27.59 | POSITIVE |

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), infectious pancreatic necrosis virus (IPNV), infectious salmon anaemia virus (ISAV), salmonid alphavirus (SAV), viral haemorrhagic septicemia virus (VHSV) and piscine myocarditis virus (PMCV).

Parasitology:

Tissue samples were tested for segments of nucleic acid indicative of the presence of the parasites specified below using real-time PCR (qPCR).

Neoparamoeba perurans (AGD)

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|-------------|-----------------------------|-----------|-------|-------|-----------------------|
| F1 | 21.85 | 31.38 | 31.16 | 31.27 | POSITIVE |
| F2 | 22.24 | 31.67 | 31.58 | 31.86 | POSITIVE |
| F3 | 22.36 | 30.90 | 30.92 | 30.88 | POSITIVE |
| F4 | 22.69 | 32.25 | 32.12 | 32.52 | POSITIVE |

Paranucleospora theridion

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|-------------|-----------------------------|-----------|-------|-------|-----------------------|
| F1 | 21.85 | 25.88 | 25.86 | 25.86 | POSITIVE |
| F2 | 22.24 | 24.09 | 24.21 | 24.22 | POSITIVE |
| F3 | 22.36 | 25.06 | 24.98 | 25.06 | POSITIVE |

| | | | | | |
|----|-------|-------|-------|-------|----------|
| F4 | 22.69 | 26.34 | 26.36 | 26.41 | POSITIVE |
|----|-------|-------|-------|-------|----------|

Histology: Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from four fish. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

Gill: Filament hyperplasia and lamellar fusion, multifocal to diffuse, mild to marked (F1, F2, F3, F4) and several basophilic epithelial inclusions (likely epitheliocystis) (F3, F4). F2 also displayed vascular disturbances and evidence of erythrophagocytosis. Presence of few round blue structures resembling bacteria that stained Gram-negative (likely *Piscirickettsia* sp.) with necrosis at the centre of the filament observed in F1, F2, F3. Some lamellar telangiectasia with multifocal thrombosis (F4). Free blood among gill filaments (F1, F2).

Skin & Muscle: Within the normal range.

Heart: Minor to mild, multifocal myocarditis (F1, F2, F4). Mild epicarditis (F1, F2). Bulbus with an influx of inflammatory cells with presence of round blue structures resembling bacteria that stained Gram-negative (likely *Piscirickettsia* sp.).

Gut and pyloric caeca: Peritonitis, minor, (F1, F3) with necrosis and presence of few round blue structures resembling bacteria (likely *Piscirickettsia* sp.) (F2).

Pancreas: Within the normal range.

Liver: Hepatocellular necrosis, mild, multifocal (F1, F2, F3) with presence of few round blue structures resembling bacteria (likely *Piscirickettsia* sp.) (F1, F3).

Kidney: Interstitial cell (haemopoietic) necrosis, mild to moderate, multifocal, and few intracellular round blue structures resembling bacteria that stained Gram-negative (likely *Piscirickettsia* sp.) (F1, F2, F3, F4), these bacteria stain Gram-negative. Some renal tubules displayed hyaline droplets (F1) and some eosinophilic amorphous material also observed (F3).

Spleen: Necrosis, multifocal, mild (F2, F3) with presence of few to several intracellular round blue structures resembling bacteria that stained Gram-negative (likely *Piscirickettsia* sp.). Capsulitis (F2) with few round blue structures resembling bacteria (likely *Piscirickettsia* sp.) (F2). Cuffing (F1). Evidence of some erythrophagocytosis (F1).

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

Signed:



Fish Health Inspector

Date: 30/11/2023

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](http://www.gov.scot)



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|---------------------|
| BUSINESS No | FB0398 | DATE OF VISIT | 01/11/2023 |
| SITE No | FS0621 | SITE NAME | Loch A Chairn Bhain |
| CASE No | 20230479 | INSPECTOR | [REDACTED] |

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

The above site was visited in accordance with the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2015.

Samples were taken to be analysed for veterinary residues.

In addition, samples were taken for diagnostic purposes. A separate report will be issued detailing the results of these tests.

Records

The information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated.

Medicine records were inspected and found to be adequately maintained.

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.

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

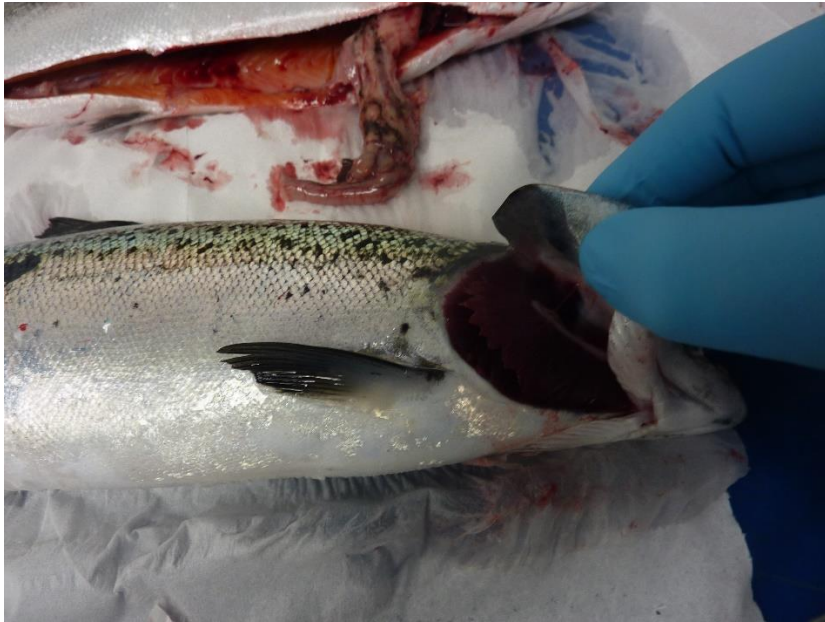
Signed:

Fish Health Inspector

Date: 30/11/2023

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

R20





Case No: 2023-0485 Date of visit: 01/11/2023

Time spent on site: 15 minutes Main Inspector: [Redacted]

Site No: SS0976 Site Name: Basta North
Business No: SB0430 Business Name: Blueshell Mussels Ltd

Case Types: 1 ECI 2 [Redacted] 3 [Redacted] 4 [Redacted] 5 [Redacted] 6 [Redacted]

Water Temp (°C): 9.29 Thermometer No: T310 FHI 045 completed [Redacted]

Observations: Region: SH Water type: S CoGP MA:

Dead/weak/abnormally behaving fish present? N 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:

Used as an ongrowing site. Once some stock is harvested next year, more stock will be moved onto site.

Physical inspection of site showed healthy mussel growth on the lines with very little fouling.

Case No: Site No:

Date of Visit: Inspector(s):

Registration/Authorisation Details

1. Business/site details summary checked by site representative?

2. Changes made to details?

Site Details (include cleaner fish for all sections)

| | | | | | |
|---------------------------------------|---|--------------------------------------|---------------------------------|--|--------------------------------|
| Total No facilities | <input type="text" value="9"/> | Facilities stocked | <input type="text" value="9"/> | No facilities inspected | <input type="text" value="9"/> |
| Species | <input type="text" value="MED"/> | <input type="text" value="MED"/> | | | |
| Age group | <input type="text" value="2020"/> | <input type="text" value="2022"/> | | | |
| No Fish | <input type="text" value="1 line"/> | <input type="text" value="8 lines"/> | | | |
| Mean Fish Wt | <input type="text" value="50-60mm"/> | <input type="text" value="20-30mm"/> | | | |
| Next Fallow Date (Site) | <input type="text" value="Continuous cycle"/> | | Next Input Date (Site) | <input type="text" value="At least end 2024/ Beginning 2025"/> | |
| Recent (last 4 wks) disease problems? | | | Any escapes (since last visit)? | <input type="text" value="N"/> | |
| If yes, detail: | <input type="text" value=""/> | | | | |

Movement Records

1. Movement records available for inspection?

2. Date of last inspection:

3. Are records complete and correctly entered?

4. Are movement records available for dead fish and waste?

5. Are records complete and correctly entered?

6. Are health certificates for introductions (outwith GB) available?

Transport Records

1. Are any movements carried out by (or on behalf) of the business (not using a STB)?

If yes, is there a system in place for maintenance of transportation records?

Mortality Records

1. Mortality records available for inspection?

2. How are mortalities disposed of?

If other detail:

3. Mortality records complete and correctly entered?

4. Recent mortality (last 4 wks):

5. Evidence of recent increased/atypical mortalities?

If yes, facility nos/no mortality per facility/no stock per facility/reason:

6. Any other peaks in mortality during period checked?

If yes, detail:

7. Have increased (unexplained) mortalities been reported to vet or FHI?

If yes, detail action:

8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

| | |
|--|--|
| 1. Recent treatments (see comment)? | |
| If yes, detail: | |
| If other, detail: | |
| 2. Medicines records available for inspection? | |
| 3. Are records complete and correctly entered? | |
| 4. Are fish in a withdrawal period? | |
| 5. If yes, what treatment(s)? | |
| If other, detail: | |
| 6. Are medicines stored appropriately? | |

Biosecurity Records

| | | |
|--|--|---|
| 1. Biosecurity records available for inspection? | | Y |
| 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered? | | Y |
| 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? | | Y |
| 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? | | Y |
| 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)? | | Y |
| 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.)? | | Y |
| 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? | | Y |
| 8. Have the biosecurity procedures been adequately implemented on site? | | Y |
| If no, detail: | | |

Results of Surveillance

| | | |
|---|--|---|
| 1. Has any animal health surveillance been carried out by, or on behalf of, the business? | | N |
| 2. If yes, are results available for inspection? | | |
| 3. Any significant results? | | |
| If yes, detail (if not detailed under recent disease problems). | | |

| | |
|--------------------------|-------------------------|
| Records checked between: | 10/08/2023 - 01/11/2023 |
|--------------------------|-------------------------|

| | | | | | |
|---|---|------------|-----------------------------|----------------------------------|------------------|
| Case Number: | 2023-0485 | Site No: | SS0976 | | |
| Date of Visit | 01/11/2023 | Inspector: | | | |
| Number of Susceptible species on site | | | | | |
| If no susceptible species present = LOW risk | | | | | |
| If susceptible species present, score for each pathogen | | | | | |
| | | No | Yes | | |
| | Susceptible to Bonamia ostrea (OED) | 0 | 25 | | 0 |
| | Susceptible to Marteilia refringens (OED, MED) | 0 | 3 | | 3 |
| | Susceptible to OsHV (CGI) | 0 | 3 | | 0 |
| Sites within a tidal excursion | | | | | |
| | | 1 | 2-5 | >6 | |
| Site contacts | Number of sites holding susceptible species within a tidal excursion | 0 | 2 | 10 | 2 |
| Live shellfish movements | | | | | |
| | | 0 | 1-2 | >3 | |
| Movements on | Frequency of movements on from equivalent MS | 0 | 5 | 10 | 0 |
| | Frequency of movements on from equivalent zone or compartment including third country | 0 | 10 | 20 | 0 |
| | Number of suppliers | 0 | 5 | 10 | 0 |
| Movements off | Frequency of movements off <u>within</u> MSS Management Areas | 0 | 1 | 2 | 0 |
| | Frequency of movements off <u>outwith</u> MSS Management Areas | 0 | 3 | 6 | 0 |
| | Number of destinations | 0 | 3 | 6 | 0 |
| Management practices | | | | | |
| | | None | Secure (effluent treatment) | Unsecure (no effluent treatment) | |
| Water contacts with depuration facilities | Depuration of stock from own sites within MSS management area | 0 | 1 | 2 | 0 |
| | Depuration of stock from other businesses sites within MSS management area | 0 | 2 | 6 | 0 |
| | Depuration of stock from sites outwith MSS management area | 0 | 4 | 8 | 0 |
| Biosecurity | | | | | |
| | Number of sites | 1 | 2 or 3 | ≥ 4 | |
| Contacts with other sites | Sites operating from single shorebase | 0 | 1 | 2 | 2 |
| | Sites sharing staff and equipment | 0 | 1 | 5 | 5 |
| | | Yes No | | | |
| | Disinfection of equipment between sites, use of footbaths etc | 0 | 2 | | 2 |
| | | | | Total Risk | 14 LOW |



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|-------------|
| BUSINESS No | SB0430 | DATE OF VISIT | 01/11/2023 |
| SITE No | SS0976 | SITE NAME | Basta North |
| CASE No | 20230485 | INSPECTOR | [REDACTED] |

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

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 surveillance frequency category of the site was assessed as low. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every fourth year. The category of the site will be reassessed on a routine basis and updated as required.

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.

No mortality had been observed on site since the last inspection by Marine Directorate.

No animal health surveillance had been carried out on behalf of the business and/or Marine Directorate since the last Marine Directorate inspection.

The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.

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

Signed:

[REDACTED]

Fish Health Inspector

Date: 21/11/2023

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

Case No: Date of visit:

Time spent on site: Main Inspector:

Site No: Site Name:
Business No: Business Name:

Case Types: 1 2 3 4 5 6

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

Observations: Region: SH Water type: S CoGP MA:

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

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

Additional Case Information:

Physical inspection of site showed very sparse growth on the ropes due to the large volume of sea squirts. Any mussels present are of good size with little fouling on the shells. Manager is classing this year as a failed spatfall and believes the type of rope may be why sea squirts have been able to dominate/out compete the mussels. Site will be stripped and new rope put in next year in hopes of better spatfall.

Case No: Site No:

Date of Visit: Inspector(s):

Registration/Authorisation Details

1. Business/site details summary checked by site representative?

2. Changes made to details?

Site Details (include cleaner fish for all sections)

| | | | | | |
|---------------------------------------|---|------------------------|---|--------------------------------|--------------------------------|
| Total No facilities | <input type="text" value="5"/> | Facilities stocked | <input type="text" value="2"/> | No facilities inspected | <input type="text" value="5"/> |
| Species | <input type="text" value="MED"/> | | | | |
| Age group | <input type="text" value="2021/2022"/> | | | | |
| No Fish | <input type="text" value="2 lines"/> | | | | |
| Mean Fish Wt | <input type="text" value="Approx. 50mm"/> | | | | |
| Next Fallow Date (Site) | <input type="text" value="Continuous cycle"/> | Next Input Date (Site) | <input type="text" value="Natural spatfall Spring 2024"/> | | |
| Recent (last 4 wks) disease problems? | <input type="text" value="N"/> | | Any escapes (since last visit)? | <input type="text" value="N"/> | |
| If yes, detail: | <input type="text" value=""/> | | | | |

Movement Records

1. Movement records available for inspection?

2. Date of last inspection:

3. Are records complete and correctly entered?

4. Are movement records available for dead fish and waste?

5. Are records complete and correctly entered?

6. Are health certificates for introductions (outwith GB) available?

Transport Records

1. Are any movements carried out by (or on behalf) of the business (not using a STB)?

If yes, is there a system in place for maintenance of transportation records?

Mortality Records

1. Mortality records available for inspection?

2. How are mortalities disposed of?

If other detail:

3. Mortality records complete and correctly entered?

4. Recent mortality (last 4 wks):

5. Evidence of recent increased/atypical mortalities?

If yes, facility nos/no mortality per facility/no stock per facility/reason:

6. Any other peaks in mortality during period checked?

If yes, detail:

7. Have increased (unexplained) mortalities been reported to vet or FHI?

If yes, detail action:

8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

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

Biosecurity Records

| | | |
|--|--------------------------|---|
| 1. Biosecurity records available for inspection? | <input type="checkbox"/> | Y |
| 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered? | <input type="checkbox"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? | <input type="checkbox"/> | Y |
| 8. Have the biosecurity procedures been adequately implemented on site? | <input type="checkbox"/> | Y |
| If no, detail: | <input type="text"/> | |

Results of Surveillance

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

| | |
|--------------------------|------------------------|
| Records checked between: | 08/08/2019 - 1/11/2023 |
|--------------------------|------------------------|

| | | | |
|---|---|------------|----------------------------------|
| Case Number: | 2023-0486 | Site No: | SS0816 |
| Date of Visit | 01/11/2023 | Inspector: | |
| Number of Susceptible species on site | | | |
| If no susceptible species present = LOW risk | | | |
| If susceptible species present, score for each pathogen | | | |
| | | No | Yes |
| Susceptible to Bonamia ostrea (OED) | | 0 | 25 |
| Susceptible to Marteilia refringens (OED, MED) | | 0 | 3 |
| Susceptible to OsHV (CGI) | | 0 | 3 |
| | | | |
| Sites within a tidal excursion | | | |
| | | 1 | 2-5 |
| | | | >6 |
| Site contacts | Number of sites holding susceptible species within a tidal excursion | 0 | 2 |
| | | | 10 |
| | | | 2 |
| Live shellfish movements | | | |
| | | 0 | 1-2 |
| | | | >3 |
| Movements on | Frequency of movements on from equivalent MS | 0 | 5 |
| | Frequency of movements on from equivalent zone or compartment including third country | 0 | 10 |
| | Number of suppliers | 0 | 5 |
| | | | 10 |
| | | | 0 |
| Movements off | Frequency of movements off <u>within</u> MSS Management Areas | 0 | 1 |
| | Frequency of movements off <u>outwith</u> MSS Management Areas | 0 | 3 |
| | Number of destinations | 0 | 3 |
| | | | 6 |
| | | | 6 |
| Management practices | | | |
| | | None | Secure (effluent treatment) |
| | | | Unsecure (no effluent treatment) |
| Water contacts with depuration facilities | Depuration of stock from own sites within MSS management area | 0 | 1 |
| | Depuration of stock from other businesses sites within MSS management area | 0 | 2 |
| | Depuration of stock from sites outwith MSS management area | 0 | 4 |
| | | | 8 |
| | | | 0 |
| Biosecurity | | | |
| | Number of sites | 1 | 2 or 3 |
| | | | ≥ 4 |
| Contacts with other sites | Sites operating from single shorebase | 0 | 1 |
| | Sites sharing staff and equipment | 0 | 1 |
| | | | 2 |
| | | | 5 |
| | | Yes | No |
| | Disinfection of equipment between sites, use of footbaths etc | 0 | 2 |
| | | | 2 |
| | | | 2 |
| Total Risk | | | 22 |
| | | | MEDIUM |



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|--------------|
| BUSINESS No | SB0430 | DATE OF VISIT | 01/11/2023 |
| SITE No | SS0816 | SITE NAME | Crying Taing |
| CASE No | 20230486 | INSPECTOR | [REDACTED] |

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

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 surveillance frequency category of the site was assessed as medium. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every second year. The category of the site will be reassessed on a routine basis and updated as required.

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.

No mortality had been observed on site since the last inspection by Marine Directorate .

No animal health surveillance had been carried out on behalf of the business and/or Marine Directorate since the last Marine Directorate inspection.

The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.

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

Signed:

[REDACTED]

Fish Health Inspector

Date: 21/11/2023

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

Case No: Date of visit:

Time spent on site: Main Inspector:

Site No: Site Name:

Business No: Business Name:

Case Types: 1 2 3 4 5 6

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

Observations: Region: SH Water type: S CoGP MA:

Dead/weak/abnormally behaving fish present? If yes, see additional information/clinical score sheet.

Clinical signs of disease observed? If yes, see additional information/clinical score sheet.

Gross pathology observed? If yes, see additional information/clinical score sheet.

Diagnostic samples taken?

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

Additional Case Information:

Physical inspection of site showed very sparse growth on the ropes due to the large volume of sea squirts. Any mussels present are of good size with little fouling on the shells. Manager is classing this year as a failed spatfall and believes the type of rope may be why sea squirts have been able to dominate/out compete the mussels. Site will be stripped and new rope put in next year in hopes of better spatfall.

Case No: 2023-0487

Site No: SS0572

Date of Visit: 01/11/2023

Inspector(s):

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

| | | | | | |
|---------------------------------------|------------------|------------------------|---------------------------------|-------------------------|---|
| Total No facilities | 7 | Facilities stocked | 7 | No facilities inspected | 7 |
| Species | MED | | | | |
| Age group | 2020 | | | | |
| No Fish | 6.8 lines | | | | |
| Mean Fish Wt | 50-60mm | | | | |
| Next Fallow Date (Site) | Continuous cycle | Next Input Date (Site) | Spring 2024 | | |
| Recent (last 4 wks) disease problems? | | N | Any escapes (since last visit)? | | N |
| If yes, detail: | | | | | |

Movement Records

- 1. Movement records available for inspection? Y
- 2. Date of last inspection: 08/08/2019
- 3. Are records complete and correctly entered? Y
- 4. Are movement records available for dead fish and waste? N/A
- 5. Are records complete and correctly entered? N/A
- 6. Are health certificates for introductions (outwith GB) available? N/A

Transport Records

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

Mortality Records

- 1. Mortality records available for inspection? N/A
- 2. How are mortalities disposed of? Other (detail)
- If other detail: Empty shells fall to seabed
- 3. Mortality records complete and correctly entered? N/A
- 4. Recent mortality (last 4 wks): No observed mortality
- 5. Evidence of recent increased/atypical mortalities? N/A
- If yes, facility nos/no mortality per facility/no stock per facility/reason:
- 6. Any other peaks in mortality during period checked? N/A
- If yes, detail:
- 7. Have increased (unexplained) mortalities been reported to vet or FHI? N/A
- If yes, detail action:
- 8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet. N/A

Treatments and Medicines Records

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

Biosecurity Records

| | | |
|--|--------------------------|---|
| 1. Biosecurity records available for inspection? | <input type="checkbox"/> | Y |
| 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered? | <input type="checkbox"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? | <input type="checkbox"/> | Y |
| 8. Have the biosecurity procedures been adequately implemented on site? | <input type="checkbox"/> | Y |
| If no, detail: | <input type="text"/> | |

Results of Surveillance

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

| | |
|--------------------------|------------------------|
| Records checked between: | 08/08/2019 - 1/11/2023 |
|--------------------------|------------------------|



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|------------|
| BUSINESS No | SB0430 | DATE OF VISIT | 01/11/2023 |
| SITE No | SS0572 | SITE NAME | Lea Cro |
| CASE No | 20230487 | INSPECTOR | [REDACTED] |

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

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 surveillance frequency category of the site was assessed as medium. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every second year. The category of the site will be reassessed on a routine basis and updated as required.

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.

No mortality had been observed on site since the last inspection by Marine Directorate .

No animal health surveillance had been carried out on behalf of the business and/or Marine Directorate since the last Marine Directorate inspection.

The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.

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

Signed:

Fish Health Inspector

Date: 21/11/2023

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Case No: 2023-0488 Date of visit: 01/11/2023

Time spent on site: 10 minutes Main Inspector: [Redacted]

Site No: SS0815 Site Name: Stany Pund
Business No: SB0430 Business Name: Blueshell Mussels Ltd

Case Types: 1 ECI 2 [] 3 [] 4 [] 5 [] 6 []

Water Temp (°C): 8.51 Thermometer No: T310 FHI 045 completed []

Observations: Region: SH Water type: S CoGP MA:

Dead/weak/abnormally behaving fish present? [N] 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:

Physical inspection of the lines showed healthy mussel growth with little fouling.

Case No: 2023-0488

Site No: SS0815

Date of Visit: 01/11/2023

Inspector(s):

Registration/Authorisation Details

- 1. Business/site details summary checked by site representative?
- 2. Changes made to details?

Site Details (include cleaner fish for all sections)

| | | | | | |
|---------------------------------------|------------------|------------------------|---------------------------------|-------------------------|---|
| Total No facilities | 4 | Facilities stocked | 4 | No facilities inspected | 4 |
| Species | MED | | | | |
| Age group | 2020 | | | | |
| No Fish | 3.1 lines | | | | |
| Mean Fish Wt | 20-60mm | | | | |
| Next Fallow Date (Site) | Continuous cycle | Next Input Date (Site) | Spring 2024 | | |
| Recent (last 4 wks) disease problems? | | N | Any escapes (since last visit)? | | N |
| If yes, detail: | | | | | |

Movement Records

- 1. Movement records available for inspection?
- 2. Date of last inspection:
- 3. Are records complete and correctly entered?
- 4. Are movement records available for dead fish and waste?
- 5. Are records complete and correctly entered?
- 6. Are health certificates for introductions (outwith GB) available?

Transport Records

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

Mortality Records

- 1. Mortality records available for inspection?
- 2. How are mortalities disposed of?
- If other detail:
- 3. Mortality records complete and correctly entered?
- 4. Recent mortality (last 4 wks):
- 5. Evidence of recent increased/atypical mortalities?
- If yes, facility nos/no mortality per facility/no stock per facility/reason:
- 6. Any other peaks in mortality during period checked?
- If yes, detail:
- 7. Have increased (unexplained) mortalities been reported to vet or FHI?
- If yes, detail action:
- 8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

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

Biosecurity Records

| | | |
|--|--------------------------|---|
| 1. Biosecurity records available for inspection? | <input type="checkbox"/> | Y |
| 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered? | <input type="checkbox"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? | <input type="checkbox"/> | Y |
| 8. Have the biosecurity procedures been adequately implemented on site? | <input type="checkbox"/> | Y |
| If no, detail: | <input type="text"/> | |

Results of Surveillance

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

| | |
|--------------------------|------------------------|
| Records checked between: | 08/08/2019 - 1/11/2023 |
|--------------------------|------------------------|



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|------------|
| BUSINESS No | SB0430 | DATE OF VISIT | 01/11/2023 |
| SITE No | SS0815 | SITE NAME | Stany Pund |
| CASE No | 20230488 | INSPECTOR | [REDACTED] |

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

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 surveillance frequency category of the site was assessed as medium. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every second year. The category of the site will be reassessed on a routine basis and updated as required.

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.

No mortality had been observed on site since the last inspection by Marine Directorate .

No animal health surveillance had been carried out on behalf of the business and/or Marine Directorate since the last Marine Directorate inspection.

The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.

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

Signed:

[REDACTED]

Fish Health Inspector

Date: 21/11/2023

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Case No: Date of visit:

Time spent on site: Main Inspector:

Site No: Site Name:
Business No: Business Name:

Case Types: 1 2 3 4 5 6

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

Observations: Region: SH Water type: S CoGP MA:

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

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

Additional Case Information:

Physical inspection revealed healthy mussel growth on the 2 fully stocked lines with little fouling.

Case No: Site No:

Date of Visit: Inspector(s):

Registration/Authorisation Details

1. Business/site details summary checked by site representative?

2. Changes made to details?

Site Details (include cleaner fish for all sections)

| | | | | | |
|---------------------------------------|---|------------------------|--|--------------------------------|--------------------------------|
| Total No facilities | <input type="text" value="4"/> | Facilities stocked | <input type="text" value="2"/> | No facilities inspected | <input type="text" value="4"/> |
| Species | <input type="text" value="MED"/> | | | | |
| Age group | <input type="text" value="2020"/> | | | | |
| No Fish | <input type="text" value="2 lines"/> | | | | |
| Mean Fish Wt | <input type="text" value="50-80mm"/> | | | | |
| Next Fallow Date (Site) | <input type="text" value="Continuous cycle"/> | Next Input Date (Site) | <input type="text" value="Spring 2024"/> | | |
| Recent (last 4 wks) disease problems? | <input type="text" value="N"/> | | Any escapes (since last visit)? | <input type="text" value="N"/> | |
| If yes, detail: | <input type="text" value=""/> | | | | |

Movement Records

1. Movement records available for inspection?

2. Date of last inspection:

3. Are records complete and correctly entered?

4. Are movement records available for dead fish and waste?

5. Are records complete and correctly entered?

6. Are health certificates for introductions (outwith GB) available?

Transport Records

1. Are any movements carried out by (or on behalf) of the business (not using a STB)?

If yes, is there a system in place for maintenance of transportation records?

Mortality Records

1. Mortality records available for inspection?

2. How are mortalities disposed of?

If other detail:

3. Mortality records complete and correctly entered?

4. Recent mortality (last 4 wks):

5. Evidence of recent increased/atypical mortalities?

If yes, facility nos/no mortality per facility/no stock per facility/reason:

6. Any other peaks in mortality during period checked?

If yes, detail:

7. Have increased (unexplained) mortalities been reported to vet or FHI?

If yes, detail action:

8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

| | |
|--|--|
| 1. Recent treatments (see comment)? | |
| If yes, detail: | |
| If other, detail: | |
| 2. Medicines records available for inspection? | |
| 3. Are records complete and correctly entered? | |
| 4. Are fish in a withdrawal period? | |
| 5. If yes, what treatment(s)? | |
| If other, detail: | |
| 6. Are medicines stored appropriately? | |

Biosecurity Records

| | | |
|--|--------------------------|---|
| 1. Biosecurity records available for inspection? | <input type="checkbox"/> | Y |
| 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered? | <input type="checkbox"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? | <input type="checkbox"/> | Y |
| 8. Have the biosecurity procedures been adequately implemented on site? | <input type="checkbox"/> | Y |
| If no, detail: | | |

Results of Surveillance

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

| | |
|--------------------------|------------------------|
| Records checked between: | 08/08/2019 - 1/11/2023 |
|--------------------------|------------------------|



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|------------------|
| BUSINESS No | SB0337 | DATE OF VISIT | 01/11/2023 |
| SITE No | SS0854 | SITE NAME | Lee of Vollister |
| CASE No | 20230489 | INSPECTOR | [REDACTED] |

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

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 surveillance frequency category of the site was assessed as medium. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every second year. The category of the site will be reassessed on a routine basis and updated as required.

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.

No mortality had been observed on site since the last inspection by Marine Directorate .

No animal health surveillance had been carried out on behalf of the business and/or Marine Directorate since the last Marine Directorate inspection.

The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.

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

Signed:

Fish Health Inspector

Date: 21/11/2023

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

Case No: 2023-0492 Date of visit: 17/11/2023

Time spent on site: 4.5hrs Main Inspector: [REDACTED]

Site No: FS0590 Site Name: Glenan Bay

Business No: FB0169 Business Name: Bakkafrøst Scotland

Case Types: 1 ECI 2 CNI 3 SLI 4 VMD 5 [] 6 []

Water Temp (°C): 10.97 Thermometer No: T307 FHI 045 completed []

Observations: Region: ST Water type: S CoGP MA: M-42

Dead/weak/abnormally behaving fish present? N 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:

Previous cycle followed out 14/06/2023. Fish input to site wk39 2023 from Migdale, Harris Lochs and Heb Smolt.

Came on with fungus, initial high morts on input - ~11% in the first 12 days. Risk assessment in place for transfer of fish with fungus from all stock inputs.

Transport records observed. No issues. Movement of wrasse noted.

Caligus not deemed an issue on site. From treatment records, last slice treatment was conducted on 23/10/2023, with all pens done on the same day.

Fish sampled for VMD were in very good condition and were seen to be healthy. No moribund fish were observed during the site inspection.

2023 (previous cycle/wrasse mortality: black losses):

Wk5, 1703, 11.66%

Wk6, 4111, 31.87%

Wk7, 2566, 29.20%

Wk9, 2743, 43.31%

Wk10, 2665, 74.21%

Wk12, 738, 79.78%

No current plan to use wrasse on site for this cycle.

Case No: Site No:

Date of Visit: Inspector(s):

Registration/Authorisation Details

1. Business/site details summary checked by site representative?

2. Changes made to details?

Site Details (include cleaner fish for all sections)

| | | | | | |
|---------------------------------------|--|--------------------------------|--|-------------------------|---------------------------------|
| Total No facilities | <input type="text" value="14"/> | Facilities stocked | <input type="text" value="13"/> | No facilities inspected | <input type="text" value="14"/> |
| Species | <input type="text" value="SAL"/> | | | | |
| Age group | <input type="text" value="2023 S3"/> | | | | |
| No Fish | <input type="text" value="590,916"/> | | | | |
| Mean Fish Wt | <input type="text" value="325g"/> | | | | |
| Next Fallow Date (Site) | <input type="text" value="April/May 2025"/> | Next Input Date (Site) | <input type="text" value="August 2025"/> | | |
| Recent (last 4 wks) disease problems? | | <input type="text" value="Y"/> | Any escapes (since last visit)? | | <input type="text" value="N"/> |
| If yes, detail: | <input type="text" value="Fungus on input. Increased mortalities on input (first 2 weeks)"/> | | | | |

Movement Records

1. Movement records available for inspection?

2. Date of last inspection:

3. Are records complete and correctly entered?

4. Are movement records available for dead fish and waste?

5. Are records complete and correctly entered?

6. Are health certificates for introductions (outwith GB) available?

Transport Records

1. Are any movements carried out by (or on behalf) of the business (not using a STB)?

If yes, is there a system in place for maintenance of transportation records?

Mortality Records

1. Mortality records available for inspection?

2. How are mortalities disposed of?

If other detail:

3. Mortality records complete and correctly entered?

4. Recent mortality (last 4 wks):

5. Evidence of recent increased/atypical mortalities?

If yes, facility nos/no mortality per facility/no stock per facility/reason:

6. Any other peaks in mortality during period checked?

If yes, detail:

7. Have increased (unexplained) mortalities been reported to vet or FHI?

If yes, detail action:

8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

- 1. Recent treatments (see comment)? Y
 If yes, detail: T.M.S.
- If other, detail:
- 2. Medicines records available for inspection? Y
- 3. Are records complete and correctly entered? Y
- 4. Are fish in a withdrawal period? Y
- 5. If yes, what treatment(s)? T.M.S.
 If other, detail:
- 6. Are medicines stored appropriately? Y

Biosecurity Records

- 1. Biosecurity records available for inspection? Y
- 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered? Y
- 3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any *increased (unexplained)* mortality at the site been included? Y
- 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 *how* and *when* that will be notified to Scottish Ministers? Y
- 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)? Y
- 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.)? Y
- 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? Y
- 8. Have the biosecurity procedures been adequately implemented on site? Y
 If no, detail:

Results of Surveillance

- 1. Has any animal health surveillance been carried out by, or on behalf of, the business? Y
- 2. If yes, are results available for inspection? Y
- 3. Any significant results? Y
 Fungus on input; transferred from migdale lochs, heb smolt and harris loch (risk assessment in place).
- If yes, detail (if not detailed under recent disease problems).

Records checked between: 11/05/2021-17/11/2023

Case no: Site No: Date of visit/
Sampling:

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

| Pool/Fish No | 1-4 | 5-8 | 9-12 | 13-14 | 15-16 | 17-20 | 21-24 | | | | | | |
|----------------|-----------------------|-----------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--|--|--|--|--|--|
| Fish nos | 1-4 | 5-8 | 9-12 | 13-14 | 15-16 | 17-20 | 21-24 | | | | | | |
| Pool Group | | | | | | | | | | | | | |
| Species | SAL | SAL | SAL | SAL | SAL | SAL | SAL | | | | | | |
| Average weight | 325g | 325g | 325g | 325g | 325g | 325g | 325g | | | | | | |
| Sex | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | | | | | |
| Water Type | SW | SW | SW | SW | SW | SW | SW | | | | | | |
| Stock Origin | Loch Damp (FS0375) | Loch Na Shibaidh Mhor (FS0069) | Loch Langavat (FS0149) | Loch Langavat (FS0149) | Loch Langavat (FS0149) | Loch Langavat (FS0149) | Loch Langavat (FS0149) | | | | | | |
| Facility No | 1 | 2 | 4 | 7 | 9 | 11 | 12 | | | | | | |

| | | | | | | |
|--|---|------------------------------------|---------------|-----------------|---------------|---------------|
| Case Number: | 2023-0492 | Site No: | FS0590 | Insp: | | |
| Date of Visit | 17/11/2023 | No of movements/supp./dest. | | | Score | |
| Live fish movements | | 0 | 1-5 | 6-10 | >10 | |
| Movements on (from out with GB) of susceptible species | Frequency of movements on from equivalent MS | 0 | 5 | 10 | 14 | 0 |
| | Frequency of movements on from equivalent zone or compartment including third country | 0 | 9 | 18 | 26 | 0 |
| | Number of suppliers | 0 | 5 | 10 | 14 | 0 |
| Movements off | Frequency of movements off | 0 | 3 | 6 | 10 | 10 |
| | Number of destinations | 0 | 3 | 6 | 10 | 3 |
| Exposure via water | Site contacts | 0 | 1-5 | 6-10 | | |
| Water contacts with other farms (holding species susceptible to same diseases) | Farm is protected (secure water supply through disinfection or borehole) | 0 | | | | |
| | Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion | 1 | 2 | 4 | | 2 |
| | Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion | 1 | 3 | 6 | | |
| | Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion | 1 | 4 | 8 | | |
| Management practices | | None | Secure | Unsecure | | |
| Water contacts with processors | Any processing plant discharging into adjacent waters | 0 | 1 | 2 | | 0 |
| On farm processing within the rules of the directive | No on farm processing | 0 | | | | 0 |
| | Processing own fish (re-cycling risk) | 1 | | | | |
| | Processing fish from MS of equivalent status | 2 | | | | |
| | Processing fish from zone or compartment of equivalent status | 4 | | | | |
| | Processing fish from Category III farm | 8 | | | | |
| | Processing fish from Category V farm | 10 | | | | |
| Disposal of fish and fish by-products | Site's own waste only processed. | 0 | | | | |
| | Common processes with other farms | 3 | | | | 3 |
| | Collection point for waste from other farms | 5 | | | | |
| Use of unpasteurised feeds | No feeding of unpasteurised feed | 0 | | | | 0 |
| | Feeding unpasteurised feed | 5 | | | | |
| Biosecurity | Number of sites | 1 | 2 or 3 | ≥ 4 | | |
| Contacts with other sites | Sites operating from single shorebase | 0 | 1 | 2 | | 1 |
| | Sites sharing staff and equipment | 0 | 1 | 2 | | 0 |
| Disinfection of equipment between sites, use of footbaths etc | Yes | 0 | | | | 0 |
| | No | 1 | | | | |
| CoGP/Regulator | | | | | | |
| Practices in accordance with regulator or industry code of practice | Yes | 0 | | | | 0 |
| | No | 3 | | | | |
| Platform access to cages | Yes | 0 | | | | 0 |
| | No | 2 | | | | |
| Total Rank | | | | | 19 | MEDIUM |

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 can these be deployed in a reasonable period of time?
- 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 2 or above (from w/b 10/6/19) during the period that records are inspected?
- 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 sea lice?
- 15. Is there a site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation?
- 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)

Seal pro nets,
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)

Case No: 2023-0492

Site No: FS0590

Date of Visit: 17/11/2023

Inspector: [REDACTED]

Point of Compliance

1. Is the farm under inspection located within a farm management area?

If N, no further questions require completion.

Points of Compliance for Both Farm Management Agreements and Statements

2. Has a current farm management agreement or statement (FMAg/S) been prepared?

3. Is the current FMAg/S available for inspection?

4. Does the FMAg/S identify the relevant farm management area?

5. Does the FMAg/S identify the fish farm site(s) to which it applies?

6. Does the FMAg/S identify the date of commencement of the agreement or statement?

7. Does the FMAg/S identify the date of review?

Arrangements for Fish Health Management

8. Does the FMAg/S identify the minimum health standards for the stocks to be introduced to the area or farm?

9. Does the FMAg/S identify the vaccination requirements for stocks held in the area or farm?

10. Does the FMAg/S identify the species of fish which may be stocked into the area or farm?

11. Does the FMAg/S identify the maximum stocking density of any pen on any farm in the area or the individual farm?

12. Does the FMAg/S identify the arrangements for the storage and disposal of any dead fish from any fish farm in the area or the individual farm?

Arrangements for The Management of Sea Lice

13. Does the FMAg/S identify arrangements for the sharing of data on sea lice numbers and treatments?

14. Does the FMAg/S identify the availability and the use of medicines on farms covered by the agreement of statement?

15. Does the FMAg/S identify any requirements for the sensitivity testing of available treatments for sea lice on farms in the area or individual farms?

16. Does the FMAg/S identify the circumstances under which biological controls and cleaner fish are to be used on farms in the area or individual farms?

17. Does the FMAg/S identify the arrangements for synchronous treatments on farms within the area?

Live Fish Movements

18. Does the FMAg/S identify the circumstances when live fish may be introduced or removed from the area or farm?

19. Does the FMAg/S identify the arrangements for the movement of live fish on and off sites in the area or individual farms?

Harvesting

20. Does the FMAg/S identify acceptable harvest practices on farms in the area or individual farms?

Fallowing

21. Does the FMAg/S identify the dates by which the area or individual farm will be fallow and the earliest date when a farm or area may be restocked?

22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement?

23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?

Point of Compliance for Farm Management Agreements Only

24. Does the farm management agreement include arrangements for persons to become, or cease to be, parties to the agreement?

Management and operation

25. Is the fish farm being managed and operated in accordance with the agreement or statement?

26. What is the version no/date of issue of the FMAg/S?



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|------------|
| BUSINESS No | FB0169 | DATE OF VISIT | 17/11/2023 |
| SITE No | FS0590 | SITE NAME | Glenan Bay |
| CASE No | 20230492 | INSPECTOR | [REDACTED] |

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

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 surveillance frequency category of the site was assessed as medium. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every second year. The category of the site will be reassessed on a routine basis and updated as required.

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 Directorate were available for inspection.

The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.

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.
Samples were taken to be analysed for veterinary residues.

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), section 4A regarding fish farm management agreements and statements and section 5 regarding containment and escapes.

On this occasion the site was found to be satisfactory with regards to parasites, fish farm management agreements and statements and containment and escapes.
Please contact myself or the duty inspector should you require any further information or have any queries regarding this report.



Signed:

Date: 22/11/2023

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

Case No: 2023-0493 Date of visit: 15/11/2023

Time spent on site: 1hr Main Inspector:

Site No: SS0884 Site Name: Eilean an Atha
Business No: SB0550 Business Name: Sound of Luing Bivalve Seafarm Ltd

Case Types: 1 ECI 2 3 4 5 6

Water Temp (°C): 11.07 Thermometer No: T307 FHI 045 completed

Observations: Region: HI Water type: S CoGP MA:

Dead/weak/abnormally behaving fish present? N 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:

Additional Case Information:

Whole site inspected on 15/11/2023.

Last stock from Seasalter Walney on 16/10/2020.

Site plans to input stock on end 2023 or early 2024 - dependant on supply.

During site inspection, some bags were observed with heavy fouling and some recently cleared and free/minimal amount of fouling. Site has trialled ortax bags but found not to be useful onsite.

No live oysters have been moved off since input and plans are in place to begin selling stock for human consumption. Mortality records have been noted as not applicable due to site staff not having observed any mortality on site.

Case No: 2023-0493

Site No: SS0884

Date of Visit: 15/11/2023

Inspector(s):

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 | 144 | Facilities stocked | 144 | No facilities inspected | |
| Species | CGI | CGI | | | |
| Age group | 2018-2020 | 2020 | | | |
| No Fish | 250,000 | 50,000 | | | |
| Mean Fish Wt | 90-100g | 50-60g | | | |
| Next Fallow Date (Site) | Never Fallow | | Next Input Date (Site) | end 2023/early 2024 | |
| Recent (last 4 wks) disease problems? | | | N Any escapes (since last visit)? | | |
| If yes, detail: | | | | | |

Movement Records

- 1. Movement records available for inspection?
- 2. Date of last inspection: 02/09/20219
- 3. Are records complete and correctly entered?
- 4. Are movement records available for dead fish and waste?
- 5. Are records complete and correctly entered?
- 6. Are health certificates for introductions (outwith GB) available?

Transport Records

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

Mortality Records

- 1. Mortality records available for inspection?
- 2. How are mortalities disposed of? Other (detail)
- If other detail: Empty shells used on roads
- 3. Mortality records complete and correctly entered?
- 4. Recent mortality (last 4 wks): no increased mortality observed since last inspection.
- 5. Evidence of recent increased/atypical mortalities?
- If yes, facility nos/no mortality per facility/no stock per facility/reason:
- 6. Any other peaks in mortality during period checked?
- If yes, detail:
- 7. Have increased (unexplained) mortalities been reported to vet or FHI?
- If yes, detail action:
- 8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

1. Recent treatments (see comment)?

If yes, detail:

If other, detail:

2. Medicines records available for inspection?

3. Are records complete and correctly entered?

4. Are fish in a withdrawal period?

5. If yes, what treatment(s)?

If other, detail:

6. Are medicines stored appropriately?

Biosecurity Records

1. Biosecurity records available for inspection?

2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?

3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any *increased (unexplained)* mortality at the site been included?

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 *how* and *when* that will be notified to Scottish Ministers?

5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?

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.)?

7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?

8. Have the biosecurity procedures been adequately implemented on site?

If no, detail:

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?

2. If yes, are results available for inspection?

3. Any significant results?

If yes, detail (if not detailed under recent disease problems).

Records checked between:

02/09/2019-15/11/2023

| |
|-----|
| |
| 144 |
| |
| |
| |
| |
| |
| N/A |
| |
| |
| Y |
| |
| Y |
| N/A |
| N/A |
| N/A |
| |
| |
| |
| N/A |
| |
| |
| N/A |
| |
| N/A |
| |
| |
| N/A |
| |
| N/A |
| |
| N/A |

| | | | |
|---|---|-----------------------------|----------------------------------|
| Case Number: | 2023-0493 | Site No: | SS0884 |
| Date of Visit | 15/11/2023 | Inspector: | |
| Number of Susceptible species on site | | | |
| If no susceptible species present = LOW risk | | | |
| If susceptible species present, score for each pathogen | | | |
| | | No | Yes |
| Susceptible to Bonamia ostrea (OED) | | 0 | 25 |
| Susceptible to Marteilia refringens (OED, MED) | | 0 | 3 |
| Susceptible to OshV (CGI) | | 0 | 3 |
| | | | 0 |
| | | | 0 |
| | | | 3 |
| Sites within a tidal excursion | | | |
| | | 1 | 2-5 |
| | | | >6 |
| Site contacts | Number of sites holding susceptible species within a tidal excursion | 0 | 2 |
| | | | 10 |
| | | | 2 |
| Live shellfish movements | | | |
| | | 0 | 1-2 |
| | | | >3 |
| Movements on | Frequency of movements on from equivalent MS | 0 | 5 |
| | | | 10 |
| | Frequency of movements on from equivalent zone or compartment including third country | 0 | 10 |
| | | | 20 |
| | Number of suppliers | 0 | 5 |
| | | | 10 |
| | | | 5 |
| Movements off | Frequency of movements off <u>within</u> MSS Management Areas | 0 | 1 |
| | | | 2 |
| | Frequency of movements off <u>outwith</u> MSS Management Areas | 0 | 3 |
| | | | 6 |
| | Number of destinations | 0 | 3 |
| | | | 6 |
| | | | 0 |
| | | | 0 |
| | | | 0 |
| Management practices | | | |
| | | Secure (effluent treatment) | Unsecure (no effluent treatment) |
| | | None | |
| Water contacts with depuration facilities | Depuration of stock from own sites within MSS management area | 0 | 1 |
| | | | 2 |
| | Depuration of stock from other businesses sites within MSS management area | 0 | 2 |
| | | | 6 |
| | Depuration of stock from sites outwith MSS management area | 0 | 4 |
| | | | 8 |
| | | | 0 |
| | | | 0 |
| | | | 0 |
| Biosecurity | | | |
| | Number of sites | 1 | 2 or 3 |
| | | | ≥ 4 |
| Contacts with other sites | Sites operating from single shorebase | 0 | 1 |
| | | | 2 |
| | Sites sharing staff and equipment | 0 | 1 |
| | | | 5 |
| | | Yes | No |
| | | | |
| | Disinfection of equipment between sites, use of footbaths etc | 0 | 2 |
| | | | |
| | | | 2 |
| | | | 2 |
| Total Risk | | | 17 |
| | | | MEDIUM |



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|----------------|
| BUSINESS No | SB0550 | DATE OF VISIT | 15/11/2023 |
| SITE No | SS0884 | SITE NAME | Eilean an Atha |
| CASE No | 20230493 | INSPECTOR | ██████████ |

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

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 surveillance frequency category of the site was assessed as medium. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every second year. The category of the site will be reassessed on a routine basis and updated as required.

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.

No mortality had been observed on site since the last inspection by Marine Directorate .

No animal health surveillance had been carried out on behalf of the business and/or the Marine Directorate since the last Marine Directorate Inspection.

The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.

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



Signed:

Date: 23/11/2023

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

Case No: 2023-0494 Date of visit: 16/11/2023

Time spent on site: 2 hrs Main Inspector: [Redacted]

Site No: SS0452 Site Name: Islay
Business No: SB0289 Business Name: G. & J. Archibald

Case Types: 1 ECI 2 [] 3 [] 4 [] 5 [] 6 []

Water Temp (°C): 10.46 Thermometer No: T307 FHI 045 completed []

Observations: Region: ST Water type: S CoGP MA: []

Dead/weak/abnormally behaving fish present? N 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:

Pacific oysters on site have been observed with good growth. Moderate to heavy fouling observed on some bags, with others bags on lines observed with none. Natives were observed to have minimal growth.

Site has observed an increase in edible and green crabs inside bags this year. This has been partially attributed to the increase in mortalities observed in August 2023 (see mortality records on site records sheet).

Site depurates own stock.

There are plans to bring new stock onto the site end of 2023/ beginning 2024 from Guernsey Sea Farms.

Case No: Site No:

Date of Visit: Inspector(s):

Registration/Authorisation Details

1. Business/site details summary checked by site representative?

2. Changes made to details?

Site Details (include cleaner fish for all sections)

| | | | | | | | | |
|---------------------------------------|---|--------------------------------------|--------------------------------------|--------------------------------------|--|-------------------------|----------------------------------|----------------------------------|
| Total No facilities | <input type="text" value="437"/> | | Facilities stocked | <input type="text" value="300"/> | | No facilities inspected | <input type="text" value="437"/> | |
| Species | <input type="text" value="CGI"/> | <input type="text" value="CGI"/> | <input type="text" value="CGI"/> | <input type="text" value="CGI"/> | <input type="text" value="OED"/> | | | |
| Age group | <input type="text" value="2019"/> | <input type="text" value="2020"/> | <input type="text" value="2021"/> | <input type="text" value="2022"/> | <input type="text" value="2021"/> | | | |
| No Fish | <input type="text" value="40,000"/> | <input type="text" value="60,000"/> | <input type="text" value="150,000"/> | <input type="text" value="700,000"/> | <input type="text" value="90,000"/> | | | |
| Mean Fish Wt | <input type="text" value="150-500g"/> | <input type="text" value="40-150g"/> | <input type="text" value="40-200g"/> | <input type="text" value="20-105g"/> | <input type="text" value="20-60g"/> | | | |
| Next Fallow Date (Site) | <input type="text" value="never fallow"/> | | | Next Input Date (Site) | <input type="text" value="End 2023/Jan 2024"/> | | | |
| Recent (last 4 wks) disease problems? | | | | <input type="text" value="N"/> | Any escapes (since last visit)? | | | <input type="text" value="N/A"/> |
| If yes, detail: | <input type="text"/> | | | | | | | |

Movement Records

1. Movement records available for inspection?

2. Date of last inspection:

3. Are records complete and correctly entered?

4. Are movement records available for dead fish and waste?

5. Are records complete and correctly entered?

6. Are health certificates for introductions (outwith GB) available?

Transport Records

1. Are any movements carried out by (or on behalf) of the business (not using a STB)?

If yes, is there a system in place for maintenance of transportation records?

Mortality Records

1. Mortality records available for inspection?

2. How are mortalities disposed of?

If other detail:

3. Mortality records complete and correctly entered?

4. Recent mortality (last 4 wks):

5. Evidence of recent increased/atypical mortalities?

If yes, facility nos/no mortality per facility/no stock per facility/reason:

6. Any other peaks in mortality during period checked?

If yes, detail:

7. Have increased (unexplained) mortalities been reported to vet or FHI?

If yes, detail action:

8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

| | |
|--|--|
| 1. Recent treatments (see comment)? | |
| If yes, detail: | |
| If other, detail: | |
| 2. Medicines records available for inspection? | |
| 3. Are records complete and correctly entered? | |
| 4. Are fish in a withdrawal period? | |
| 5. If yes, what treatment(s)? | |
| If other, detail: | |
| 6. Are medicines stored appropriately? | |

Biosecurity Records

| | |
|--|----------------------------|
| 1. Biosecurity records available for inspection? | <input type="checkbox"/> Y |
| 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered? | <input type="checkbox"/> Y |
| 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"/> Y |
| 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"/> Y |
| 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"/> Y |
| 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"/> Y |
| 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? | <input type="checkbox"/> Y |
| 8. Have the biosecurity procedures been adequately implemented on site? | <input type="checkbox"/> Y |
| If no, detail: | |

Results of Surveillance

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

| | |
|--------------------------|-----------------------|
| Records checked between: | 16/08/2022-16/11/2023 |
|--------------------------|-----------------------|

| | | | |
|---|---|------------|----------------------------------|
| Case Number: | 2023-0494 | Site No: | SS0452 |
| Date of Visit | 16/11/2023 | Inspector: | |
| Number of Susceptible species on site | | | |
| If no susceptible species present = LOW risk | | | |
| If susceptible species present, score for each pathogen | | | |
| | | No | Yes |
| Susceptible to Bonamia ostrea (OED) | | 0 | 25 |
| Susceptible to Marteilia refringens (OED, MED) | | 0 | 3 |
| Susceptible to OshV (CGI) | | 0 | 3 |
| Sites within a tidal excursion | | | |
| | | 1 | 2-5 |
| | | | >6 |
| Site contacts | Number of sites holding susceptible species within a tidal excursion | 0 | 2 |
| | | | 10 |
| | | | 0 |
| Live shellfish movements | | | |
| | | 0 | 1-2 |
| | | | >3 |
| Movements on | Frequency of movements on from equivalent MS | 0 | 5 |
| | Frequency of movements on from equivalent zone or compartment including third country | 0 | 10 |
| | Number of suppliers | 0 | 5 |
| | | | 10 |
| | | | 5 |
| Movements off | Frequency of movements off <u>within</u> MSS Management Areas | 0 | 1 |
| | Frequency of movements off <u>outwith</u> MSS Management Areas | 0 | 3 |
| | Number of destinations | 0 | 3 |
| | | | 6 |
| | | | 6 |
| | | | 3 |
| Management practices | | | |
| | | None | Secure (effluent treatment) |
| | | | Unsecure (no effluent treatment) |
| Water contacts with depuration facilities | Depuration of stock from own sites within MSS management area | 0 | 1 |
| | Depuration of stock from other businesses sites within MSS management area | 0 | 2 |
| | Depuration of stock from sites outwith MSS management area | 0 | 4 |
| | | | 2 |
| | | | 6 |
| | | | 8 |
| | | | 1 |
| Biosecurity | | | |
| | Number of sites | 1 | 2 or 3 |
| | | | ≥ 4 |
| Contacts with other sites | Sites operating from single shorebase | 0 | 1 |
| | Sites sharing staff and equipment | 0 | 1 |
| | | | |
| | | | 5 |
| | | Yes | No |
| | Disinfection of equipment between sites, use of footbaths etc | 0 | 2 |
| | | | 2 |
| | | | 2 |
| Total Risk | | | 49 |
| | | | HIGH |



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|------------|
| BUSINESS No | SB0289 | DATE OF VISIT | 16/11/2023 |
| SITE No | SS0452 | SITE NAME | Islay |
| CASE No | 20230494 | INSPECTOR | [REDACTED] |

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

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 surveillance frequency category of the site was assessed as high. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted annually. The category of the site will be reassessed on a routine basis and updated as required.

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.

No animal health surveillance had been carried out on behalf of the business and/or the Marine Directorate since the last Marine Directorate Inspection.

The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.

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

Signed:

Date: 20/11/2023

Fish Health Inspector

R14

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

Case No: 2023-0495 Date of visit: 01/11/2023

Time spent on site: 4 hours Main Inspector:

Site No: FS0549 Site Name: Tanera
Business No: FB0125 Business Name: Scottish Sea Farms Ltd

Case Types: 1 REP 2 DIA 3 4 5 6

Water Temp (°C): 11.6 Thermometer No: T155 FHI 045 completed

Observations: Region: HI Water type: S CoGP MA: M-10

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

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

Additional Case Information:

All fish on site from Barcaldine.

Nevis sites being stocked this week

80 m circles on site

FW well boat treatment at site today. Peroxide last week

Fergusons boat removing current mortalities. Final disposal destination is Dumfries.

Mort; 8/10 0.75%; 15/10 2.55%, 22/10 6.45; 29/10 12.33%. 2/11 3.53 (part week)

Individual cages worse than others. Aquagen fish in pens 1,4 ,5 and 6 worst effected.

AGD peroxide (Paramove)treatment 23/9- 26/9 - tarp treatment; Peroxide July, Current treatments peroxide and fresh water

Health reports - 11/7/23 vet report lamellar lesions on gills; August test results AGD Moderate to High

Case No: Site No:

Date of Visit: Inspector(s):

Registration/Authorisation Details

1. Business/site details summary checked by site representative?

2. Changes made to details?

Site Details (include cleaner fish for all sections)

| | | | | | |
|---------------------------------------|---|--------------------------------------|-------------------------------------|--|--|
| Total No facilities | <input type="text" value="12"/> | Facilities stocked | <input type="text" value="12"/> | No facilities inspected | |
| Species | <input type="text" value="sal"/> | | | | |
| Age group | <input type="text" value="2023 Q1&Q2"/> | <input type="text" value="2023 Q1"/> | | | |
| No Fish | <input type="text" value="89,744"/> | <input type="text" value="140,856"/> | | | |
| Mean Fish Wt | <input type="text" value="1.9kg"/> | <input type="text" value="2.26kg"/> | | | |
| Next Fallow Date (Site) | <input type="text" value="2024"/> | | Next Input Date (Site) | <input type="text" value="not known"/> | |
| Recent (last 4 wks) disease problems? | | | <input checked="" type="checkbox"/> | Any escapes (since last visit)? | |
| If yes, detail: | <input type="text" value="gill issues AGD and PGD, jelly fish damage"/> | | | | |

Movement Records

1. Movement records available for inspection?

2. Date of last inspection:

3. Are records complete and correctly entered?

4. Are movement records available for dead fish and waste?

5. Are records complete and correctly entered?

6. Are health certificates for introductions (outwith GB) available?

Transport Records

1. Are any movements carried out by (or on behalf) of the business (not using a STB)?

If yes, is there a system in place for maintenance of transportation records?

Mortality Records

1. Mortality records available for inspection?

2. How are mortalities disposed of?

If other detail:

3. Mortality records complete and correctly entered?

4. Recent mortality (last 4 wks):

5. Evidence of recent increased/atypical mortalities?

If yes, facility nos/no mortality per facility/no stock per facility/reason:

6. Any other peaks in mortality during period checked?

If yes, detail:

7. Have increased (unexplained) mortalities been reported to vet or FHI?

If yes, detail action:

8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

1. Recent treatments (see comment)?

If yes, detail:

TMS

If other, detail:

2. Medicines records available for inspection?

3. Are records complete and correctly entered?

4. Are fish in a withdrawal period?

5. If yes, what treatment(s)?

TMS

If other, detail:

6. Are medicines stored appropriately?

Biosecurity Records

1. Biosecurity records available for inspection?

2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?

3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any *increased (unexplained)* mortality at the site been included?

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 *how* and *when* that will be notified to Scottish Ministers?

5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?

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.)?

7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?

8. Have the biosecurity procedures been adequately implemented on site?

If no, detail:

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?

2. If yes, are results available for inspection?

3. Any significant results?

If yes, detail (if not detailed under recent disease problems).

AGD

Records checked between:

26/4/23- 2/11/23

| |
|-----|
| |
| 4 |
| |
| |
| |
| |
| |
| N |
| |
| |
| |
| Y |
| |
| Y |
| Y |
| Y |
| Y |
| N/A |
| |
| |
| |
| |
| Y |
| |
| |
| Y |
| |
| Y |
| |
| |
| |
| N |
| |
| N/A |
| |
| Y |

Case no: Site No: Date of visit/
Sampling:

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

| Pool/Fish No | F1 | F2 | F3 | F4 | F5 | | | | | | | |
|----------------|--------------|------------|------------|------------|------------|------------|--|--|--|--|--|--|
| Fish nos | 1 | 2 | 3 | 4 | 5 | | | | | | | |
| Pool Group | | | | | | | | | | | | |
| Species | SAL | SAL | SAL | SAL | SAL | | | | | | | |
| Average weight | 2KG | 2KG | 2KG | 2KG | 2KG | | | | | | | |
| Sex | | | | | | | | | | | | |
| Water Type | SW | SW | SW | SW | SW | | | | | | | |
| Stock Details | | barcaldine | barcaldine | barcaldine | barcaldine | barcaldine | | | | | | |
| | Stock Origin | | | | | | | | | | | |
| Facility No | 6 | 6 | 6 | 6 | 6 | | | | | | | |

Case no: 2023-0495

Site No: FS0549

Method of killing: Percussive

Date of visit: 01/11/2023

Inspector(s):

Sheet Relevant: Y

S for strong presence: M for medium presence: W for weak presence

| Fish Number | | 1 | 2 | 3 | 4 | 5 | | | | |
|--|-----------------------|---|---|---|---|---|--|--|--|--|
| Time sampled after death (if > 45 minutes) | | | | | | | | | | |
| External Signs | | | | | | | | | | |
| Behaviour | Moribund | S | S | S | S | S | | | | |
| | Lethargic | S | S | S | S | S | | | | |
| | Hanging vertical | | | | | | | | | |
| | Spiralling | | | | | | | | | |
| | Flashing | | | | | | | | | |
| | Loss of equilibrium | | | | | | | | | |
| Body | Dark | | | | | | | | | |
| | Distended abdomen | | | | | | | | | |
| | Anorexic | | | | | | | | | |
| | Scale Oedema | | | | | | | | | |
| Opercula | Shortened | | | | | | | | | |
| | Flared | | | | | | | | | |
| Haemorrhaging | Throat | | | | | | | | | |
| | Ventrum | | | | | | | | | |
| | Base of fins | | | | | | | | | |
| | Elsewhere | | | | | | | | | |
| Eyes | Exophthalmic | | | | | | | | | |
| | Enophthalmic (sunken) | | | | | | | | | |
| | Cataract | | | | | | | | | |
| | Haemorrhagic | | | | | | | | | |
| Gills | Pale | S | S | S | S | S | | | | |
| | Zoned | | | | | | | | | |
| | Necrotic | | | | | | | | | |
| Lesions | Flank | | | | | | | | | |
| | Elsewhere | | | | | | | | | |
| Vent | Inflamed | | | | | | | | | |
| | Trailing faeces | | | | | | | | | |
| Lice Load | Estimate numbers | 0 | 0 | 0 | 0 | 0 | | | | |
| Internal Signs | | | | | | | | | | |
| Ascites | Clear | | | | | | | | | |
| | Bloody | | | | | | | | | |
| Oedema | In tissues | | | | | | | | | |
| Heart | Pale/anaemic | | | | | | | | | |
| | Granulomas | | | | | | | | | |
| | Deformed | | | | | | | | | |
| Liver | Petechial haem | | | | | | | | | |
| | Gross haem | | | | | | | | | |
| | Tissue breakdown | | | | | | | | | |
| | Enlarged | | | | | | | | | |
| | Colour number(s) | 6 | 6 | 6 | 6 | 6 | | | | |
| | Granulomas | | | | | | | | | |
| | Lesions | | | | | | | | | |
| Pyloric caeca | Petechial haem | | | | | | | | | |
| | Tubules mauve | | | | | | | | | |
| | Lack of fat | | | | | | | | | |
| Spleen | Enlarged | | | | | | | | | |
| | Granulomas | | | | | | | | | |
| Gut | No food present | S | S | S | S | S | | | | |
| | Yellow pseudo-faeces | | | | | | | | | |
| | External haem | | | | | | | | | |
| | Internal haem | | | | | | | | | |
| Body wall | Haemorrhaging | | | | | | | | | |
| Swim bladder | Haemorrhaging | | | | | | | | | |
| | Fluid filled | | | | | | | | | |
| Kidney | Swollen | | | | | | | | | |
| | Grey | | | | | | | | | |
| | Granular | | | | | | | | | |
| | Liquefied | | | | | | | | | |
| General | Parasites present | | | | | | | | | |
| | Anaemia | | | | | | | | | |

Additional comments:

Pale ragged gills for all fish. No food but fish on starve for fw treatment

Results

Bacteriology: Kidney and gill material from five fish was inoculated onto appropriate media for the isolation of bacteria.

Vibrio sp. was identified on plates taken from gill material of 5/5 fish. The level and purity of growth would not suggest this bacterium would be implicated as the primary pathogen.

Virology: Tissue samples were tested for segments of nucleic acid indicative of the presence of the pathogens specified below using real-time PCR (qPCR).

Salmon Gill Poxvirus (SGPV)

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|-------------|-----------------------------|-----------|-------|-------|-----------------------|
| F1 | 22.33 | 31.77 | 31.86 | 31.85 | POSITIVE |
| F2 | 22.94 | 35 | 34.70 | 34.61 | POSITIVE |
| F3 | 23.12 | 35.86 | 35.62 | 35.01 | POSITIVE |
| F4 | 23.46 | 31.65 | 31.68 | 31.61 | POSITIVE |
| F5 | 22.09 | 36.56 | 37.25 | 37.43 | POSITIVE |

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), infectious pancreatic necrosis virus (IPNV), infectious salmon anaemia virus (ISAV), salmonid alphavirus (SAV), viral haemorrhagic septicaemia virus (VHSV) and piscine myocarditis virus (PMCV).

Parasitology: Tissue samples were tested for segments of nucleic acid indicative of the presence of the parasites specified below using real-time PCR (qPCR).

Neoparamoeba perurans (AGD)

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|-------------|-----------------------------|-----------|-------|-------|-----------------------|
| F1 | 22.33 | 24.90 | 25.02 | 25.00 | POSITIVE |
| F2 | 22.94 | 26.04 | 26.12 | 26.12 | POSITIVE |
| F3 | 23.12 | 26.20 | 26.10 | 26.19 | POSITIVE |
| F4 | 23.46 | 26.26 | 26.27 | 26.37 | POSITIVE |
| F5 | 22.09 | 27.18 | 27.18 | 27.24 | POSITIVE |

Paranucleospora theridion

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|-------------|-----------------------------|-----------|-------|-------|-----------------------|
| F1 | 22.33 | 29.67 | 29.62 | 29.78 | POSITIVE |
| F2 | 22.94 | 31.36 | 31.42 | 31.44 | POSITIVE |
| F3 | 23.12 | 33.52 | 34.04 | 33.66 | POSITIVE |
| F4 | 23.46 | 36.01 | 35.45 | 35.71 | POSITIVE |
| F5 | 22.09 | 32.33 | 32.37 | 32.46 | POSITIVE |

Histology: Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from five fish. The tissue samples were fixed in 10% neutral buffered formalin.

The following histopathological changes were observed:

Gill: Lamellar hyperplastic branchitis, moderate to marked, multifocal (F1-F5), some lamellar vascular disturbances (F4). F3 also displayed areas of cellular necrosis. Presence of several amoeboid cells resembling *Neoparamoeba perurans* observed in all fish and few basophilic epithelial inclusions (likely epitheliocystis) F1. Aneurysmal dilation/lamellar telangiectasia observed in all fish.

Skin & Muscle: Within normal range.

Heart: Minor, multifocal, myocarditis (F1). Some thrombi nests in ventricular chamber. Minor to mild epericarditis (F1, F2). F1: No atrium present.

Gut and pyloric caeca: Mild peritonitis (F1).

Pancreas: Within the normal range.

Liver: Hepatocellular necrosis, mild, multifocal to coalescence (F1-F5), small focal sinusoidal congestion (F3), minor cuffing (F1), hepatocellular vacuolation (macrovesicles), mild, diffuse (F2).
Kidney: Focal area of congestion, one renal tubule dilated (F1), some renal tubules with hyaline droplets on the lining epithelium(F4).

Spleen: Within the normal range.

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

Signed:



Date: 30/11/2023

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/resources/consultations-petitions-and-statements/fish-health-inspectorate-service-charter-2022-2025/)









Case No: 2023-0498 Date of visit: 01/11/2023

Time spent on site: 45mins Main Inspector: [Redacted]

Site No: SS0931 Site Name: Oyster Holding Room
Business No: SB0556 Business Name: The Roslin Institute

Case Types: 1 ECI 2 [] 3 [] 4 [] 5 [] 6 []

Water Temp (°C): 20 Thermometer No: Site FHI 045 completed []

Observations: Region: LO Water type: S CoGP MA:

Dead/weak/abnormally behaving fish present? [N] 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:

When the site is stocked, animals are kept in buckets and a water change is conducted weekly using natural seawater collected from St Abbs Marine Station.

Animals on site were sourced from Loch Ryan and will be kept on site for ~2 weeks before being sampled. Animals are culled and dissected on site before tissue samples are transported in wells within a plastic bag (that has been disinfected) to the disease challenge room for disease trials. All movements off from this site go to the disease challenge room (SS0941).

Stock on site appeared in good health. No moribunds were observed during the inspection.

Mortalities are disposed of via the Universities approved route for clinical waste, which is incineration at another location on campus (but off site).

Site thermometer used due to biosecurity risk.

Case No: **2023-0498** Site No: **SS0931**

Date of Visit: **01/11/2023** 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 | 6 | Facilities stocked | 5 | No facilities inspected | 6 |
| Species | OED | | | | |
| Age group | 2023 | | | | |
| No Fish | 38 | | | | |
| Mean Fish Wt | ~10cm | | | | |
| Next Fallow Date (Site) | Nov 23 | Next Input Date (Site) | Unsure. | | |
| Recent (last 4 wks) disease problems? | | N | Any escapes (since last visit)? | | N |
| If yes, detail: | [REDACTED] | | | | |

Movement Records

- 1. Movement records available for inspection? **Y**
- 2. Date of last inspection: **09/11/2022**
- 3. Are records complete and correctly entered? **Y**
- 4. Are movement records available for dead fish and waste? **N/A**
- 5. Are records complete and correctly entered? **N/A**
- 6. Are health certificates for introductions (outwith 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? **Other (detail)**
- If other detail: **Mortalities are incinerated at another location on campus (but off site).**
- 3. Mortality records complete and correctly entered? **Y**
- 4. Recent mortality (last 4 wks): **No mortalities since last inspection.**
- 5. Evidence of recent increased/atypical mortalities? **N/A**
- If yes, facility nos/no mortality per facility/no stock per facility/reason: **[REDACTED]**
- 6. Any other peaks in mortality during period checked? **N**
- If yes, detail: **[REDACTED]**
- 7. Have increased (unexplained) mortalities been reported to vet or FHI? **N/A**
- If yes, detail action: **[REDACTED]**
- 8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet. **N/A**

Treatments and Medicines Records

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

Biosecurity Records

| | | |
|--|--------------------------|---|
| 1. Biosecurity records available for inspection? | <input type="checkbox"/> | Y |
| 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered? | <input type="checkbox"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? | <input type="checkbox"/> | Y |
| 8. Have the biosecurity procedures been adequately implemented on site? | <input type="checkbox"/> | Y |
| If no, detail: | <input type="text"/> | |

Results of Surveillance

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

| | |
|--------------------------|--|
| Records checked between: | <input type="text" value="09/11/2022 - 01/11/2023"/> |
|--------------------------|--|

| | | | | | |
|---|---|------------|-----------------------------|----------------------------------|--------------------------|
| Case Number: | 2023-0498 | Site No: | SS0931 | | |
| Date of Visit | 01/11/2023 | Inspector: | | | |
| Number of Susceptible species on site | | | | | |
| If no susceptible species present = LOW risk | | | | | |
| If susceptible species present, score for each pathogen | | | | | |
| | | No | Yes | | |
| | Susceptible to Bonamia ostrea (OED) | 0 | 25 | | 25 |
| | Susceptible to Marteilia refringens (OED, MED) | 0 | 3 | | 3 |
| | Susceptible to OsHV (CGI) | 0 | 3 | | 3 |
| Sites within a tidal excursion | | | | | |
| | | 1 | 2-5 | >6 | |
| Site contacts | Number of sites holding susceptible species within a tidal excursion | 0 | 2 | 10 | 0 |
| Live shellfish movements | | | | | |
| | | 0 | 1-2 | >3 | |
| Movements on | Frequency of movements on from equivalent MS | 0 | 5 | 10 | 0 |
| | Frequency of movements on from equivalent zone or compartment including third country | 0 | 10 | 20 | 0 |
| | Number of suppliers | 0 | 5 | 10 | 0 |
| Movements off | Frequency of movements off <u>within</u> MSS Management Areas | 0 | 1 | 2 | 2 |
| | Frequency of movements off <u>outwith</u> MSS Management Areas | 0 | 3 | 6 | 0 |
| | Number of destinations | 0 | 3 | 6 | 3 |
| Management practices | | | | | |
| | | None | Secure (effluent treatment) | Unsecure (no effluent treatment) | |
| Water contacts with depuration facilities | Depuration of stock from own sites within MSS management area | 0 | 1 | 2 | 0 |
| | Depuration of stock from other businesses sites within MSS management area | 0 | 2 | 6 | 0 |
| | Depuration of stock from sites outwith MSS management area | 0 | 4 | 8 | 0 |
| Biosecurity | | | | | |
| | Number of sites | 1 | 2 or 3 | ≥ 4 | |
| Contacts with other sites | Sites operating from single shorebase | 0 | 1 | 2 | 1 |
| | Sites sharing staff and equipment | 0 | 1 | 5 | 1 |
| | | Yes No | | | |
| | Disinfection of equipment between sites, use of footbaths etc | 0 | 2 | | 0 |
| | | | | Total Risk | 38 HIGH |



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|---------------------|
| BUSINESS No | SB0556 | DATE OF VISIT | 01/11/2023 |
| SITE No | SS0931 | SITE NAME | Oyster Holding Room |
| CASE No | 20230498 | INSPECTOR | ██████████ |

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009. 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 surveillance frequency category of the site was assessed as high. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted annually. The category of the site will be reassessed on a routine basis and updated as required.

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.

No animal health surveillance had been carried out on behalf of the business and/or Marine Directorate since the last Marine Directorate inspection.

The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.

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

Signed:

Date: 03/11/2023

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

Case No: Date of visit:

Time spent on site: Main Inspector:

Site No: Site Name:

Business No: Business Name:

Case Types: 1 2 3 4 5 6

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

Observations: Region: LO Water type: F CoGP MA:

Dead/weak/abnormally behaving fish present? If yes, see additional information/clinical score sheet.

Clinical signs of disease observed? If yes, see additional information/clinical score sheet.

Gross pathology observed? If yes, see additional information/clinical score sheet.

Diagnostic samples taken?

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

Additional Case Information:

Tanks are completely independent and not connected to any water supply. Artificial seawater is made using RO from the tap and adding synthetic salt. This is stored in a larger water tank within the room and is used for weekly water changes.

Each individual tank has its own heater, filter for collecting suspended waste and an airstone.

Waste water removed from the tanks is stored in a separate storage tank and is treated with sodium hypochlorite for 24hrs prior to discharge down the drain and into mains sewage.

When live animals are moved off site, they are placed in sealed welltrays that are then placed within a plastic bag that is then sprayed with Virkon disinfectant before moving off site.

Mortalities are treated as clinical waste and are disposed of via the Universities approved route for clinical waste, which in this case is incineration at another location on campus (but off site).

Animals on site appeared in good health at time of inspection.

Site thermometer used due to biosecurity risk.

Case No: **2023-0499** Site No: **SS0936**
 Date of Visit: **01/11/2023** 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 | 17 | Facilities stocked | 14 | No facilities inspected | 17 |
| Species | LPV | | | | |
| Age group | 2023 | | | | |
| No Fish | 45 | | | | |
| Mean Fish Wt | ~10g | | | | |
| Next Fallow Date (Site) | Regularly fallow. | Next Input Date (Site) | Unsure. | | |
| Recent (last 4 wks) disease problems? | N | | Any escapes (since last visit)? | N | |
| If yes, detail: | [REDACTED] | | | | |

Movement Records

- 1. Movement records available for inspection? **Y**
- 2. Date of last inspection: **31/03/2021**
- 3. Are records complete and correctly entered? **Y**
- 4. Are movement records available for dead fish and waste? **N/A**
- 5. Are records complete and correctly entered? **N/A**
- 6. Are health certificates for introductions (outwith 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? **Other (detail)**
 If other detail: **Incineration at another location on campus (but off site)**
- 3. Mortality records complete and correctly entered? **Y**
- 4. Recent mortality (last 4 wks): **5 mortalities across all tanks since last inspection. Attributed to moulting and cannibalism.**
- 5. Evidence of recent increased/atypical mortalities? **N**
 If yes, facility nos/no mortality per facility/no stock per facility/reason: **[REDACTED]**
- 6. Any other peaks in mortality during period checked? **N**
 If yes, detail: **[REDACTED]**
- 7. Have increased (unexplained) mortalities been reported to vet or FHI? **N/A**
 If yes, detail action: **[REDACTED]**
- 8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet. **N/A**

Treatments and Medicines Records

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

Biosecurity Records

| | | |
|--|--------------------------|---|
| 1. Biosecurity records available for inspection? | <input type="checkbox"/> | Y |
| 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered? | <input type="checkbox"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 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"/> | Y |
| 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? | <input type="checkbox"/> | Y |
| 8. Have the biosecurity procedures been adequately implemented on site? | <input type="checkbox"/> | Y |
| If no, detail: | <input type="text"/> | |

Results of Surveillance

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

| | |
|--------------------------|--|
| Records checked between: | <input type="text" value="31/03/2021 - 01/11/2023"/> |
|--------------------------|--|



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|----------------------|
| BUSINESS No | SB0556 | DATE OF VISIT | 01/11/2023 |
| SITE No | SS0936 | SITE NAME | Shrimp Aquarium Room |
| CASE No | 20230499 | INSPECTOR | [REDACTED] |

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009. 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 surveillance frequency category of the site was assessed as low. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every fourth year. The category of the site will be reassessed on a routine basis and updated as required.

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.

No animal health surveillance had been carried out on behalf of the business and/or Marine Directorate since the last Marine Directorate inspection.

The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.

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

Signed:

Date: 03/11/2023

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

Case No: 2023-0500 Date of visit: 01/11/2023

Time spent on site: 30mins Main Inspector: [Redacted]

Site No: FS1353 Site Name: AGRF (RAS B)
Business No: FB0568 Business Name: The Roslin Institute

Case Types: 1 REG 2 [] 3 [] 4 [] 5 [] 6 []

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

Observations: Region: LO Water type: F CoGP MA: []

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

UNI/REG only - if unable to carry out intended visit detail reason below:
Site fallow.

Additional Case Information:

Site had been unable to stock as planned since last inspection.

The tanks have had to be redesigned to meet the home office licence requirements. Site is hoping to be stocked with rainbow trout sourced from the Niall Bromage Freshwater Field Station (FS0473) before the end of the year following design approval.

These fish will be brought on to test the new design to ensure full functionality prior to beginning of trials. These fish will not be moved off and will be euthanised and sampled on site. Future stock may be moved between this site and neighbouring site AGRF (RAS A).

No movements on or off the site had occurred since the last inspection, so no movement records collected.

Case No: 2023-0500 Site No: FS1353

Date of Visit: 01/11/2023 Inspector(s):

Registration/Authorisation Details

- 1. Business/site details summary checked by site representative?
2. Changes made to details?

Site Details (include cleaner fish for all sections)

Table with 6 columns: Total No facilities, Species, Age group, No Fish, Mean Fish Wt, Next Fallow Date (Site), Facilities stocked, Next Input Date (Site), No facilities. Includes entries like '19', '0', 'Currently fallow.', 'Dec 23', 'N/A', 'Any escapes (since last visit)'.

Movement Records

- 1. Movement records available for inspection?
2. Date of last inspection:
3. Are records complete and correctly entered?
4. Are movement records available for dead fish and waste?
5. Are records complete and correctly entered?
6. Are health certificates for introductions (outwith GB) available?

Transport Records

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

Mortality Records

- 1. Mortality records available for inspection?
2. How are mortalities disposed of? Other (detail)
If other detail: Mortalities will be incinerated via the universities approved clinical waste route.
3. Mortality records complete and correctly entered?
4. Recent mortality (last 4 wks): Site has never been stocked so no mortality records to
5. Evidence of recent increased/atypical mortalities?
If yes, facility nos/no mortality per facility/no stock per facility/reason:
6. Any other peaks in mortality during period checked?
If yes, detail:
7. Have increased (unexplained) mortalities been reported to vet or FHI?
If yes, detail action:
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

1. Recent treatments (see comment)?

If yes, detail:

If other, detail:

2. Medicines records available for inspection?

3. Are records complete and correctly entered?

4. Are fish in a withdrawal period?

5. If yes, what treatment(s)?

If other, detail:

6. Are medicines stored appropriately?

Biosecurity Records

1. Biosecurity records available for inspection?

2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?

3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any *increased (unexplained)* mortality at the site been included?

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 included and *how* and *when* that will be notified to Scottish Ministers?

5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status certification if required)?

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.)?

7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals on site?

8. Have the biosecurity procedures been adequately implemented on site?

If no, detail:

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?

2. If yes, are results available for inspection?

3. Any significant results?

If yes, detail (if not detailed under recent disease problems).

Records checked between:

09/11/2022 - 01/11/2023

| | | | | | | |
|--|---|-----------------------------|---------------|-----------------|---------------|------------|
| Case Number: | 2023-0500 | Site No: | FS1353 | Insp: | | |
| Date of Visit | 01/11/2023 | No of movements/supp./dest. | | | Score | |
| Live fish movements | | 0 | 1-5 | 6-10 | >10 | |
| Movements on (from out with GB) of susceptible species | Frequency of movements on from equivalent MS | 0 | 5 | 10 | 14 | 0 |
| | Frequency of movements on from equivalent zone or compartment including third country | 0 | 9 | 18 | 26 | 0 |
| | Number of suppliers | 0 | 5 | 10 | 14 | 0 |
| Movements off | Frequency of movements off | 0 | 3 | 6 | 10 | 6 |
| | Number of destinations | 0 | 3 | 6 | 10 | 3 |
| Exposure via water | Site contacts | 0 | 1-5 | 6-10 | | |
| Water contacts with other farms (holding species susceptible to same diseases) | Farm is protected (secure water supply through disinfection or borehole) | 0 | | | | 0 |
| | Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion | 1 | 2 | 4 | | |
| | Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion | 1 | 3 | 6 | | |
| | Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion | 1 | 4 | 8 | | |
| Management practices | | None | Secure | Unsecure | | |
| Water contacts with processors | Any processing plant discharging into adjacent waters | 0 | 1 | 2 | | 0 |
| On farm processing within the rules of the directive | No on farm processing | 0 | | | | |
| | Processing own fish (re-cycling risk) | 1 | | | | 1 |
| | Processing fish from MS of equivalent status | 2 | | | | |
| | Processing fish from zone or compartment of equivalent status | 4 | | | | |
| | Processing fish from Category III farm | 8 | | | | |
| | Processing fish from Category V farm | 10 | | | | |
| Disposal of fish and fish by-products | Site's own waste only processed. | 0 | | | | 0 |
| | Common processes with other farms | 3 | | | | |
| | Collection point for waste from other farms | 5 | | | | |
| Use of unpasteurised feeds | No feeding of unpasteurised feed | 0 | | | | 0 |
| | Feeding unpasteurised feed | 5 | | | | |
| Biosecurity | Number of sites | 1 | 2 or 3 | ≥ 4 | | |
| Contacts with other sites | Sites operating from single shorebase | 0 | 1 | 2 | | 1 |
| | Sites sharing staff and equipment | 0 | 1 | 2 | | 1 |
| Disinfection of equipment between sites, use of footbaths etc | Yes | 0 | | | | 0 |
| | No | 1 | | | | |
| CoGP/Regulator | | | | | | |
| Practices in accordance with regulator or industry code of practice | Yes | 0 | | | | 0 |
| | No | 3 | | | | |
| Platform access to cages | Yes | 0 | | | | 0 |
| | No | 2 | | | | |
| Total Rank | | | | | 12 | LOW |



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|--------------|
| BUSINESS No | FB0568 | DATE OF VISIT | 01/11/2023 |
| SITE No | FS1353 | SITE NAME | AGRF (RAS B) |
| CASE No | 20230500 | INSPECTOR | [REDACTED] |

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

On this occasion, the site was found to be fallow and has not been stocked since authorisation in July 2021.

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

Signed:



Fish Health Inspector

Date: 03/11/2023

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](http://www.gov.scot/Topics/marine/science)