| | | | |
|---|---|---|---|
| Case No: | 2024-0205 | Date of visit: | 04/07/2024 |
| Time spent on site: | 4h | Main Inspector: | [redacted] |
| Site No: | FS1175 | Site Name: | Gob na Hoe |
| Business No: | FB0398 | Business Name: | Loch Duart Ltd |

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

Water Temp (°C): 11.7 Thermometer No: T173 FHI 045 completed N/A

Observations: Region: HI Water type: S CoGP MA M-25

| | | |
|---|---|---|
| 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? | 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:**

Wrasse mortality last four weeks: 53 (1.97%).

Sal mortalities last four weeks: wk 26 4470 (1.53%) mainly post treatment, wk 25 1510 (0.51%) mainly post treatment, wk 24 342 (0.11%), wk 23 262 (0.09%).

Salmosan treatment administered during transfer onto site with discharge occurring at Leinish.

Only sea lice medicine available is hydrogen peroxide. FW and wrasse are the main sea lice treatments but mechanical treatments could be administered if required.

On inspection of the site a number of lethargic fish were observed with physical damage, three were removed for further examination but no gross pathology was noted. There was an issue with a FW treatment the week before which resulted in some abrasion. Site staff have been removing moribunds on a daily basis. The general population appeared in good general health and were shoaling and feeding well.

Site was stocked with a sw to sw transfer from two separate management areas (Stock from Loch A Chairn Bhain (FS0621) (known by the company as Reintrad) and Loch Maddy (FS0853). Risk assessment for these movements was available however these types of movement are not in compliance with the CoGP.

Records were inspected remotely on the 27th, 28th June and also the 1st and 2nd July. Records were also inspected on the day of inspection.

Issues raised: information was provided on the 2/9/2024 to clear the issues raised.

Case No: 2024-0205 Site No: FS1175

Date of Visit: 04/07/2024 Inspector(s): [redacted]

**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 | 8 | Facilities stocked | 4 | No facilities inspected | 8 | | | |
| Species | SAL | WRA | | | | | | |
| Age group | 2023 S1 | Wild | | | | | | |
| No Fish | 288,485 | 2,736 | | | | | | |
| Mean Fish Wt | 3.8 kg | N/A | | | | | | |
| Next Fallow Date (Site) | Dec 2024 | Next Input Date (Site) | March 2025 | | | | | |
| 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: | 28/03/2024 |
| 3. Are records complete and correctly entered? | N |
| 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? | Ensiled - on site |
| If other detail: | Uplifted by Fergusons transport |
| 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? | N |
| 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. | Y |

**Treatments and Medicines Records**

| | |
|---|---|
| 1. Recent treatments (see comment)? | Y |
| If yes, detail: | TMS |
| 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)? | TMS |
| 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? | N |
| If yes, detail (if not detailed under recent disease problems). | |

| | |
|---|---|
| Records checked between: | 15/4/2024 to 4/7/2024 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Case no: | 2024-0205 | Site No: | FS1175 | Date of visit/ Sampling: | 04/07/2024 | 04/0 | | | | | | | |
| Priority samples: | VI | | BA | | PA | | MG | | HI | | | | |
| Time sampling starts/ends: | 11:00:00 | 11:20:00 | Inspector: | | VMD No. | 4 | | | | | | | |
| Environmental conditions: | 1 | Indoors | 2 | | 3 | | 4 | | 5 | | | | |
| Summary samples | HIST | | BA | | MG | | VI | | PA | | Total Samples | | |

**Add Fish/Pools - click**

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Pool/Fish No | | | | | | | | | | | | |
| | Fish nos | 1 | | | | | | | | | | | |
| | Pool Group | | | | | | | | | | | | |
| Stock Details | Species | SAL | | | | | | | | | | | |
| | Average weight | 3.8kg | | | | | | | | | | | |
| | Sex | N/A | | | | | | | | | | | |
| | Water Type | SW | | | | | | | | | | | |
| | Stock Origin | Lochmaddy | | | | | | | | | | | |
| | Facility No | 3 | | | | | | | | | | | |

07/2024 Additional Sample Information:

0 Total Tests assigned 0

| Case Number: | 2024-0205 | | Site No: | FS1175 | Insp: | |
|---|---|---|---|---|---|---|
| Date of Visit | 04/07/2024 | | | | | |

| | | 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 | 0 |
| | Number of destinations | 0 | 3 | 6 | 10 | 0 |
| **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 | | | | |
| | 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 | | 0 |
| 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 | | | | |
| | No | 3 | | | | 3 |
| Platform access to cages | Yes | 0 | | | | 0 |
| | No | 2 | | | | |

| | |
|---|---|
| **Total** | **8** |
| Rank | **LOW** |

Case No: 2024-0205 Site No: FS1175

**Sea Lice Inspection (Seawater Sites Only)**

| | |
|---|---|
| 1. Has the site experienced sea lice problems in the previous 4 years? | Y |
| 2. Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis? | N |
| 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? | N |
| 4. Is there a signed documented farm management agreement or statement relevant to the site and CoGP Farm Management Area (or equivalent)? | Y |
| 5. Are sea lice count records available for inspection? (Legal SSI, CoGP Annex 6) | Y |
| 6. Do records adequately reflect the required standard specified in the SSI and the CoGP? (Legal SSI, CoGP Annex 6) | Y |
| 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) | Y |
| 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? | N |
| If yes, have these been reported to the Fish Health Inspectorate? If no, FHI see comment. | N/A |
| 9. Is *C. elongatus* infestation at a level which is considered to cause significant welfare problems? (CoGP 4.3.81, 5.3.50) | N |
| 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) | N/A |
| 11. Has any other action been taken (where applicable)? | N/A |
| 12. Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded? | N/A |
| 13. Are treatments, where conducted, carried out in cooperation between participating farms? | Y |
| 14. Is there a harvesting strategy for the site, where fewer populations or part populations are held without treatment for sea lice? | Y |
| 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? | Y |
| 16. Do the sea lice levels observed on stocks reflect sea lice count data? If no please detail reasons. | Y |

**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 |

Top nets, Tensioned nets froya, Wild life interactions diary, HDPE net (equivalent to 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? | 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 |

Case No: 2024-0205 Site No: FS1175

Date of Visit: 04/07/2024 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? | N |
| 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? | N |
| 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? | N |
| 19. Does the FMAg/S identify the arrangements for the movement of live fish on and off sites in the area or individual farms? | N |

**Harvesting**

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

**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? | Y |
| 22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement? | Y |
| 23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement? | Y |

**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? | N/A |

**Management and operation**

| | |
|---|---|
| 25. Is the fish farm being managed and operated in accordance with the agreement or statement? | Y |
| 26. What is the version no/date of issue of the FMAg/S? | version 14 June 2024 |

Case No: 2024-0205 Date of visit: 04/07/2024

Site No: FS1175 Inspector:

| Results Summary | Freq. | Date of Notification | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Database | Insp | Phone | Insp | Writing | Insp | 2nd Insp |
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| Report Summary | | | |
|---|---|---|---|
| Case Type | Date | Insp | 2nd Insp |
| ECI,CNI,SLI,VMD | 05/08/2024 | | |
| Case completion | 02/09/2024 | | |
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# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|---|---|---|---|
| **BUSINESS NO** | FB0398 | **DATE OF VISIT** | 04/07/2024 |
| **SITE NO** | FS1175 | **SITE NAME** | Gob na Hoe |
| **CASE NO** | 20240205 | **INSPECTOR** | [redacted] |

**Case completion report**

Recommendations in relation to the above case were made for implementation by 2nd September 2024. Following submission of the required documentation, evidence has now been provided to the Fish Health Inspectorate to demonstrate that the recommendations have been implemented.

This case will now be closed. This site may be subject to further audit and recommendations in the future.

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

Signed: [redacted] Date: 2/9/2024

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)



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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/

# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|---|---|---|---|
| **BUSINESS NO** | FB0398 | **DATE OF VISIT** | 04/07/2024 |
| **SITE NO** | FS1175 | **SITE NAME** | Gob na Hoe |
| **CASE NO** | 20240205 | **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 found to be inadequately 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.

The following points were raised with the site representative during the inspection:

- Movements of wrasse were not recorded in the correct format, the movement book was updated during the inspection so no further action is required.



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**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, containment and escapes.

The farm management agreement/statement was inspected and found to be inadequately maintained. Please see the attached annex detailing the points that must be addressed.

Please ensure that these points have been addressed by **02/09/2024**. Records or documentation demonstrating that these points have been addressed should be sent to the Fish Health Inspectorate (contact details below). The site may be subject to further inspection or enforcement action should the appropriate action regarding the above points not be taken within the time period stipulated.

Please contact myself or the duty inspector should you require any assistance or clarification in implementing any requirement or recommendation detailed in this report.

Signed: [redacted] Date: 5/8/2024

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)



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**Annex - The Aquaculture and Fisheries (Scotland) Act 2007**

Section 4A of the Aquaculture and Fisheries (Scotland) Act 2007, as amended, introduces the requirement for a person carrying out the business of fish farming within a farm management area[1] to;

(a) be party to a farm management agreement, or prepare and maintain a farm management statement, in relation to the fish farm, and

(b) ensure that the fish farm is managed and operated in accordance with the agreement or statement.

To ensure compliance with the Aquaculture and Fisheries (Scotland) Act 2007, as amended, the following points must be addressed in the farm management agreement/statement:

- The management of parasites[2]
  - The arrangements for the sharing of data and information on sea lice numbers and treatments.

- The movements of live fish on and off the farms
  - The methods and circumstances in which live fish will be introduced to or removed from the site.

[1] Farm management area means an area specified as such in the Code of Good Practice for Scottish Finfish Aquaculture

[2] Parasites as defined in The Aquaculture and Fisheries (Scotland) Act 2007 which means *Caligus elongatus* and *Lepeophtherius salmonis*



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Case No: 2024-0255 Date of visit: 04/07/2024

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

Site No: FS0887 Site Name: Sallachy Site
Business No: FB0235 Business Name: Cooke Aquaculture (Freshwater) Ltd

Case Types: 1 OTH 2 3 4 5 6

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

Observations: Region: HI 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:**

Site inspection undertaken to observe procedures for transfer of stock onto site, following reports of feral farmed fish being caught in Loch Shin.

Farm containment and escape response procedure, fish intake SOP, smolt transfer SOP, Vaki service report, Dive inspection of nets in place to receive fry intake and net certificates of inspection were all available for inspection.

Nets were serviced on 28/03/24 and 23/05/24 with only minor repairs carried out. Dive report from 1/07/24 details that no holes were observed in any of the nets in advance of the intakes on 2nd, 4th and 6th July. The Vaki counter was serviced in February 24 when a small fault with the visibility was noted, causing issues with calibration. It was suggested that the mirror should be cleaned regularly.

298, 928 fish were input last crop over 3 inputs (108,593, 110,151 and 80,184) on the 26th, 27th and 28th October 2023 at 47g. Fish are only held on this site for a couple of months before moving off to a SW site for ongrowing. A total of 299,498 (count from wellboat at discharge) fish from last crop were moved off to Vestness (FS1210). However, the Vaki count of fish being loaded onto the lorry was 299,812, a discrepancy of 314 fish between being loaded onto the lorry at site, and being discharged at Vestness. This was attributed to counter inaccuracies.

Total mortality for the site was 3,303 (1.1% total of input). A total discrepancy for fish on and fish off the site was 3,873 (1.3% of the wellboat count). This discrepancy has been attributed to variations in counter accuracies and is deemed acceptable.

Stocking procedure: Cages are not towed and remain in place during stocking. Pipes run from the cages to the shorebase and are visually checked at the cage side and at the shorebase but the floating lines are not inspected at regular intervals. A suggestion for improvement would be to incorporate regular visual inspections of the floating transfer pipes in order to detect any faults or failures and that these be recorded, along with any repair work that is undertaken.

Lorries reverse into shoreabse and the transfer pipe is connected to the outlet of each tank on the lorry in turn. The pipes are not secured to the outlet on the tank, but is placed over the outlet and secured by a rope. Failure of this rope would result in the pipe being forced away from the lorry, resulting in a failure in containment. A suggestion for improvement was made to include the addition of a catch net under the outlet so that if a failure was to occur, any fish that are spilled, would be captured and could be returned to the tank. The valve for each tank is opened and fish are gravity fed into the cages. The lorry driver supervises the discharge from above the tank and confirms when all the fish have been discharged. The pipe is then flushed with water to ensure no fish remain in the transfer pipe, before it is disconnected and moved onto the next tank.

The pipe that discharges into the cage, is secured with a single rope to the cage structure and is placed across the lowered side net and submerged in the water within the cage. Using radios, site staff located at cage side confirm with staff at the shorebase when the discharge pipe is in position and secure before fish are discharged into the cage. Cage side staff supervise the discharge of the fish into the cage and notify shorebase staff when no more fish are coming through and to begin flushing the pipe to ensure any fish remaining in the transfer pipe are flushed out and into the cage before the pipe is

The transfer pipe is made up of several sections of pipe which are attached by secure locks and supported by ratchet straps to ensure contingency if the locks were to fail.

Evidence that the recommendations in relation to the case were made for implementation was submitted by 06/09/24.

Case No: 2024-0255 Date of visit: 04/07/2024

Site No: FS0887 Inspector: [redacted]

| Results Summary | Freq. | Date of Notification | | | | | | |
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| | | Database | Insp | Phone | Insp | Writing | Insp | 2nd Insp |
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| Report Summary | | | |
|---|---|---|---|
| Case Type | Date | Insp | 2nd Insp |
| OTH | 23/07/2024 | | |
| Case completion | 03/09/2024 | | |
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# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|---|---|---|---|
| **BUSINESS NO** | FB0235 | **DATE OF VISIT** | 04/07/2024 |
| **SITE NO** | FS0887 | **SITE NAME** | Sallachy Site |
| **CASE NO** | 20240255 | **INSPECTOR** | [redacted] |

The site was inspected in accordance with the Aquaculture and Fisheries (Scotland) Act 2007 with respect to section 5 regarding containment and escapes, following reports of feral farmed fish being caught in Loch Shin.

An inspection was conducted of the procedures for the transfer of stock onto the site. On this occasion recommendations were issued in relation to the procedure and contingency measures in place for the stocking of fish. The following recommendations are made for improvement:

- As the floating transfer pipeline had not been inspected prior to being used, it is recommended that a review of the stocking procedure is undertaken to ensure compliance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) (chapter 3, point 4.28); where fish are to be handled, it is recommended that the integrity of all handling equipment be checked, including: pipelines, pumps, transport tanks, graders, counters and vaccination stations.

- It was also observed that no safety nets were in place at transfer pipe joints or at the attachment to the transfer tanks. It is recommended that a documented review of whether safety nets, secondary pipe joint security devices or other forms of bunding are required to be put in place at potential risk points, to ensure compliance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) (chapter 3, point 4.30).

**Further Action**

Please ensure that these points have been addressed by 30th August 2024. Records or documentation demonstrating that these points have been addressed should be sent to the Fish Health Inspectorate (contact details below). The site may be subject to further inspection or enforcement action should the appropriate action regarding the above points not be taken within the time period stipulated.

Please contact myself or the duty inspector should you require any assistance or clarification in implementing any requirement or recommendation detailed in this report.

Signed: [redacted] Date: 23/07/2024

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).



Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB
Tel – 0131 244 3498 Fax – 0131 244 0944 Email – ms.fishhealth@gov.scot
Website - www.gov.scot/Topics/marine/science

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# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|---|---|---|---|
| **BUSINESS NO** | FB0235 | **DATE OF VISIT** | 04/07/2024 |
| **SITE NO** | FS0887 | **SITE NAME** | Sallachy Site |
| **CASE NO** | 20240255 | **INSPECTOR** | [redacted] |

**Case completion report**

Recommendations in relation to the above case were made for implementation by 06/09/24. Following submission of the required documentation, evidence has now been provided to the Fish Health Inspectorate to demonstrate that the recommendations have been implemented.

This case will now be closed. This site may be subject to further audit and recommendations in the future.

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

[redacted]

Signed: Date: 03/09/2024

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)



UKAS Accredited Inspection Body - Type C No. 0269
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/

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Case No: | 2024-0275 | | | | | | | | |
| Time spent on site: | 2hrs | | | | | | | Main Inspec | |
| Site No: | FS0253 | | Site Name: | | Loch Spelve (B) | | | | |
| Business No: | FB0125 | | Business Name: | | Scottish Sea Farms Ltd | | | | |
| Case Types | 1 ECI | | 2 CNI | | 3 SLI | | 4 | | 5 |
| Water Temp (°C): | 13.36 | | Thermometer No: | | | | T308 | | |
| Observations: | | | Region: | | ST | | Water type: | | |
| Dead/weak/abnormally behaving fish present? | | | | | N | | If yes, see additional inf | | |
| Clinical signs of disease observed? | | | | | N | | If yes, see additional inf | | |
| Gross pathology observed? | | | | | N | | If yes, see additional inf | | |
| Diagnostic samples taken? | | | | | N | | | | |

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

Date of visit: 24/07/2024

ctor: [redacted]

6

FHI 045 completed N/A

S CoGP MA: M-39

ormation/clinical score sheet.
ormation/clinical score sheet.
ormation/clinical score sheet.

**Additional Case Information:**

Site has been fallow since 08/09/2022. First input of fish were transferred from pen 10 at Tanera (B) on 02/06/2024 (fanad stock). Next input of fish onto site will be from Fishnish B- potential broodstock. These fish will have a different yearclass from current stock. On the day of the site inspection, only 1 pen was stocked. New net was being installed on pen 2. There are currently no plans to stock pen 3.

WRS planning to arrive on site; 01/08/2024 Wild caught origin. Procedures relating to movements of wrasse onto site were inspected and template transfer records were inspected; no wrasse had moved onto when site was inspected.

Fish were checked prior to the transfer from Tanera (B); no issues identified at the time, fish were observed to be healthy.

Site routinely sample every pen; PCR swabs. Health team visit minium every 6 months. Staff trained in health.

Mortality and waste disposal: plans are to move the incinerator onto the barge and therefore the incinerator is not operational. Currently, mortalities are stored in sealed bins and transported via pick up to Fishnish shorebase and then placed into skips. Skips are taken away from Fishnish shorebase by Billy Bowie. Records relating to movement of mortality waste to Fishnish shorebase not recorded. Issue raised.

Mortality levels had exceeded the reporting criteria since the last inspection. Mortality events in 2021 and 2022 had been reported to the Fish Health Inspectorate as required.

Aeration currently being fitted on site.

Biological risk assessment inspected for movements from Tanera to Spelve. This risk assessment has been updated to assess the SW-SW movement to a single site from different a FMA/DMA.

| | | | |
|---|---|---|---|
| Case No: | 2024-0275 | Site No: | FS0253 |
| Date of Visit: | 24/07/2024 | Inspector(s): | [redacted] |

**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 | 3 | Facilities stocked | | 1 | No facilities inspected | | |
| Species | SAL | | | | | | |
| Age group | 2023 Q1 | | | | | | |
| No Fish | 1,449 | | | | | | |
| Mean Fish Wt | 7.2kg | | | | | | |
| Next Fallow Date (Site) | Nov 2024 | | Next Input Date (Site) | | Currently no plans | | |
| 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: | 14/05/2021 |
| 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: | see additional information |
| 3. Mortality records complete and correctly entered? | |
| 4. Recent mortality (last 4 wks): | 2024: Wk29, 1.04%,15; Wk28, 0.3%, 4; Wk27, 0.2%, 3; Wk26, 0.3%, 4; V 1.5%,22 |
| 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: | **2021**: Wk27, 1.0%, 2955; |
| 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: T.M.S; Alphamax

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)? T.M.S; Alphamax

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: 14/05/2021-23/07/2024

3

N

Y

Y

Y

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N/A

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*N*k25,

N

Y

N/A

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Y

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Y

Y

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Y

Y

Y

Y

N

| Case Number: | 2024-0275 | | Site No: | FS0253 | Insp: | |
|---|---|---|---|---|---|---|
| Date of Visit | 24/07/2024 | | | | | |

| | | 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 | | 1 |
| | 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 | | 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** | **17** |
| Rank | **MEDIUM** |

Case No: 2024-0275 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 a
well as access to suitable biological and/or mechanical control measures, and can these be deployed in a reasonable period of tir
4. Is there a signed documented farm management agreement or statement relevant to the site and CoGP Farm Management Ar
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 a
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 a
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
*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 scena
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; tensioned nets; Top 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? (
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)

FS0253

| | |
|---|---|
| | Y |
| | Y |
| and emamectin benzoate) as me? | Y |
| ea (or equivalent)? | Y |
| | Y |
| | Y |
| re inspected? (CoGP Annex 6) | N |
| bove (from w/b 10/6/19) during | Y |
| | Y |
| | N |
| d criteria for treatment or where | Y |
| | N/A |
| | Y |
| | Y |
| | Y |
| arios during the escalation of a | Y |
| | Y |
| | N |
| | Y |
| | N |
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| Legal, CoGP – 4.4.38, 5.4.18) | |
| | Y |

Case No: 2024-0275 Site No: FS0253

Date of Visit: 24/07/2024 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? | Y |

**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? | Y |
| 22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement? | Y |
| 23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement? | Y |

**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? | N/A |

**Management and operation**

| | |
|---|---|
| 25. Is the fish farm being managed and operated in accordance with the agreement or statement? | Y |
| 26. What is the version no/date of issue of the FMAg/S? | 12.07.2024 |

Case No: 2024-0275 Date of visit: 24/07/2024

Site No: FS0253 Inspector: [redacted]

| Results Summary | Freq. | Date of Notification | | | | | | |
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| Report Summary | | | |
|---|---|---|---|
| Case Type | Date | Insp | 2nd Insp |
| ECI, CNI, SLI | 29/07/2024 | | |
| Case completion | 30/08/2024 | | |
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# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|---|---|---|---|
| **BUSINESS NO** | FB0125 | **DATE OF VISIT** | 24/07/2024 |
| **SITE NO** | FS0253 | **SITE NAME** | Loch Spelve (B) |
| **CASE NO** | 20240275 | **INSPECTOR** | [redacted] |

**Case completion report**

Issues were raised in relation to the above case, with a requirement for records unavailable for inspection to be submitted by 30/08/2024. The required records have now been provided to the Fish Health Inspectorate.

This case will now be closed. This site may be subject to further audit and recommendations in the future.

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

Signed: [redacted] Date: 30/08/2024

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)



UKAS Accredited Inspection Body - Type C No. 0269
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/

# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|---|---|---|---|
| **BUSINESS NO** | FB0125 | **DATE OF VISIT** | 24/07/2024 |
| **SITE NO** | FS0253 | **SITE NAME** | Loch Spelve (B) |
| **CASE NO** | 20240275 | **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 found to be inadequately maintained.

Records in relation to aquaculture animals transported by the business were inspected and found 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.

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

The following points were raised with the site representative during the inspection:

- Fish waste movement records from site to another shorebase out with the farm management area were not available. These movements need to be recorded and available for inspection.

These must be addressed to ensure the conditions of authorisation for your Aquaculture Production Business (APB) are being met. Records or documentation demonstrating that these



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points have been addressed should be sent to the Fish Health Inspectorate (contact details below) within 30 days of the date this report was issued.

**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: 29/07/2024

Fish Health Inspector

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| | | | |
|---|---|---|---|
| Case No: | 2024-0281 | Date of visit: | 25/07/2024 |
| Time spent on site: | 4 Hours | Main Inspector: | [redacted] |
| Site No: | FS0646 | Site Name: | Soay |
| Business No: | FB0119 | Business Name: | Mowi Scotland Ltd |

Case Types: 1 DIA 2 REP 3 4 5 6

Water Temp (°C): 14.4 Thermometer No: T309 FHI 045 completed N/A

Observations: Region: WI Water type: S CoGP MA: W-7

| | | |
|---|---|---|
| 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:**

Site inspected in overcast conditions and a calm sea state, visibility of the stocks was good. The site was inspected following reports of prolonged increased mortality. The site was previously inspected on 26/03/2024 and diagnostic samples were taken, case 2024-0096.

Upon inspection of the stocks, fish were observed to be residing quite deep within the pens. The majority of the population were observed shoaling well. A small population of fish in each pen were slightly lethargic. 2 moribunds, with one fish displaying abnormal swimming behaviour was removed from pen 7 for diagnostic sampling. 3 further moribunds were observed in pens 3 and 14 and were removed for sampling.

Salmon mortalities at Soay have been persistently elevated throughout the duration of 2024. For May June and July mortality has regularly been above 1% weekly. Since the date of last inspection, mortality peaked at 4.74% w/b03/06/24 and 3.58% wb 24/06/2024. In these weeks mortality was mainly attributed to treatment losses (post thermolicer treatment), Gill damage and HSMI.

Cleanerfish mortality within last 4 weeks : Ballan Wrasse - 44, 1.15%. Lumpfish - 867, 4.36%.
Recent mortality within the last 4 weeks has been mainly attributed to HSMI and treatment losses.

Lice levels on site appeared low upon inspection of the stocks.

| | | | |
|---|---|---|---|
| Case No: | 2024-0281 | Site No: | FS0646 |
| Date of Visit: | 25/07/2024 | 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 | | 16 | Facilities stocked | | 6 | No facilities inspected | | 16 |
| Species | SAL | WRS | LUMP | | | | | |
| Age group | 2023 Q2 | 2023 | 2023 | | | | | |
| No Fish | 107,919 | 3,836 | 19,870 | | | | | |
| Mean Fish Wt | 3.7Kg | 45g | 140g | | | | | |
| Next Fallow Date (Site) | | 08/24 | | Next Input Date (Site) | | 10/24 | | |
| Recent (last 4 wks) disease problems? | | | Y | Any escapes (since last visit)? | | | | N |
| If yes, detail: | HSMI | | | | | | | |

**Movement Records**

| | |
|---|---|
| 1. Movement records available for inspection? | Y |
| 2. Date of last inspection: | 26/03/2024 |
| 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)? | |
| 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? | Ensiled - on site |
| If other detail: | Ensiled waste transferred to whiteshore cockles |
| 3. Mortality records complete and correctly entered? | Y |
| 4. Recent mortality (last 4 wks): | Week 30 (782, 0.72%), Week 29 (2,198, 1.77%), Week 28 (2,458, 1.23%), Week 27 (3,350, 1.46%) |
| 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? | N |
| 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. | Y |

**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? | |
| 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? | Y |
| If yes, detail (if not detailed under recent disease problems). | See additional information |
| | |
| Records checked between: | 26/03/2024 - 25/07/2024 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Case no: | 2024-0281 | Site No: | FS0646 | Date of visit/ Sampling: | 25/07/2024 | 25/0 | | | | | | | |
| Priority samples: | VI | | BA | | PA | | MG | | HI | | | | |
| Time sampling starts/ends: | 11:15:00 | 12:17:00 | Inspector: | | VMD No. | 0 | | | | | | | |
| Environmental conditions: | 1 | Indoors | 2 | | 3 | | 4 | | 5 | | | | |
| Summary samples | HIST | Y | BA | Y | MG | Y | 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 | P1 | P1 | P1 | P1 | P1 | | | | | | | |
| Stock Details | Species | SAL | SAL | SAL | SAL | SAL | | | | | | | |
| | Average weight | 3.7Kg | 3.7Kg | 3.7Kg | 3.7Kg | 3.7Kg | | | | | | | |
| | Sex | N/A | N/A | N/A | N/A | N/A | | | | | | | |
| | Water Type | SW | SW | SW | SW | SW | | | | | | | |
| | Stock Origin | Hellisay (FS1261) | Hellisay (FS1261) | Hellisay (FS1261) | Hellisay (FS1261) | Hellisay (FS1261) | | | | | | | |
| | Facility No | 3 | 3 | 14 | 6 | 6 | | | | | | | |

07/2024 Additional Sample Information:

5 Total Tests assigned 3

Case no: 2024-0281 Site No: FS0646 Method of killing: Percussive

Date of visit: 25/07/2024 Inspector(s): [redacted] Sheet Relevant: Y

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

| Fish Number | | F1 | F2 | F3 | F4 | F5 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Time sampled after death (if > 45 minutes) | | | | 5 | 20 | 35 | | | | | |
| External Signs | | | | | | | | | | | |
| Behaviour | Moribund | S | M | M | M | M | | | | | |
| | Lethargic | S | S | S | S | S | | | | | |
| | Hanging vertical | S | | | | | | | | | |
| | Spiralling | | | | | | | | | | |
| | Flashing | | | | | | | | | | |
| | Loss of equilibrium | | | | | | | | | | |
| Body | Dark | M | | | W | | | | | | |
| | Distended abdomen | | | | | | | | | | |
| | Anorexic | M | | | W | | | | | | |
| | Scale Oedema | | | | | | | | | | |
| Opercula | Shortened | | | | | | | | | | |
| | Flared | | | | | | | | | | |
| Haemorrhaging | Throat | | | | | | | | | | |
| | Ventrum | | | | | | | | | | |
| | Base of fins | | | | | | | | | | |
| | Elsewhere | | | | | | | | | | |
| Eyes | Exophthalmic | | | | S | | | | | | |
| | Enophthalmic (sunken) | S | | | | | | | | | |
| | Cataract | | | | | | | | | | |
| | Haemorrhagic | | | | | | | | | | |
| Gills | Pale | M | | | | | | | | | |
| | Zoned | | | | | | | | | | |
| | Necrotic | | | | | | | | | | |
| Lesions | Flank | | | | | | | | | | |
| | Elsewhere | | | | | | | | | | |
| Vent | Inflamed | | M | M | | M | | | | | |
| | Trailing faeces | | | | | | | | | | |
| Lice Load | Estimate numbers | 2 | 2 | 1 | 3 | 1 | | | | | |
| | | | | | | | | | | | |
| Internal Signs | | | | | | | | | | | |
| Ascites | Clear | M | M | M | W | M | | | | | |
| | Bloody | | | | | | | | | | |
| Oedema | In tissues | | | | | | | | | | |
| Heart | Pale/anaemic | | | | | | | | | | |
| | Granulomas | | | | | | | | | | |
| | Deformed | | | | | | | | | | |
| Liver | Petechial haem | | | | | | | | | | |
| | Gross haem | | | | | | | | | | |
| | Tissue breakdown | | | | | | | | | | |
| | Enlarged | | | | | | | | | | |
| | Colour number(s) | 5 | 3 | 5 | 4 | 3 | | | | | |
| | Granulomas | | | | | | | | | | |
| | Lesions | | | | | | | | | | |
| Pyloric caeca | Petechial haem | | | M | | W | | | | | |
| | Tubules mauve | | | | | | | | | | |
| | Lack of fat | W | | | | W | | | | | |
| Spleen | Enlarged | | | | | | | | | | |
| | Granulomas | | | | | | | | | | |
| Gut | No food present | S | S | S | S | S | | | | | |
| | Yellow pseudo-faeces | | | | | | | | | | |
| | External haem | | | | | | | | | | |
| | Internal haem | | | M | | | | | | | |
| Body wall | Haemorrhaging | | | W | | | | | | | |
| Swim bladder | Haemorrhaging | | | | | | | | | | |
| | Fluid filled | | W | M | | S | | | | | |
| Kidney | Swollen | | | | | | | | | | |
| | Grey | | | | | | | | | | |
| | Granular | | | | | | | | | | |
| | Liquefied | | | | | | | | | | |
| General | Parasites present | | | | | | | | | | |
| | Anaemia | | | | | | | | | | |

Case no: 2024-0281

Date of visit: 25/07/2024

**S** for strong presence: **M** for medium presence: **W** for w

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Fish Number** | | | | | | | | | | | |
| **Time sampled after death (if > 45 minutes)** | | | | | | | | | | | |
| **External Signs** | | | | | | | | | | | |
| **Behaviour** | **Moribund** | | | | | | | | | | |
| | **Lethargic** | | | | | | | | | | |
| | **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** | | | | | | | | | | |
| | **Zoned** | | | | | | | | | | |
| | **Necrotic** | | | | | | | | | | |
| **Lesions** | **Flank** | | | | | | | | | | |
| | **Elsewhere** | | | | | | | | | | |
| **Vent** | **Inflamed** | | | | | | | | | | |
| | **Trailing faeces** | | | | | | | | | | |
| **Lice Load** | **Estimate numbers** | | | | | | | | | | |
| | | | | | | | | | | | |
| **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** | | | | | | | | | | |
| | **Granulomas** | | | | | | | | | | |
| **Gut** | **No food present** | | | | | | | | | | |
| | **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:

Site No: FS0646

Case No: 2024-0281

Nature of non-compliance:

Action taken (FHI):

Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology

Case No: 2024-0281 Date of visit: 25/07/2024

Site No: FS0646 Inspector: [redacted]

| Results Summary | Freq. | Date of Notification | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Database | Insp | Phone | Insp | Writing | Insp | 2nd Insp |
| MG AGD | 4/5 | 01/08/2024 | | 30/07/2024 | | 29/08/2024 | | |
| MG IHN | 0/5 | 01/08/2024 | | 30/07/2024 | | 29/08/2024 | | |
| MG PARA_THER_Q | 5/5 | 01/08/2024 | | 30/07/2024 | | 29/08/2024 | | |
| MG SAL POX | 2/5 | 01/08/2024 | | 30/07/2024 | | 29/08/2024 | | |
| MG SAV | 4/5 | 01/08/2024 | | 30/07/2024 | | 29/08/2024 | | |
| MG IPN | 4/5 | 01/08/2024 | | 30/07/2024 | | 29/08/2024 | | |
| MG ISA | 0/5 | 01/08/2024 | | 30/07/2024 | | 29/08/2024 | | |
| MG PMCV | 0/5 | 01/08/2024 | | 30/07/2024 | | 29/08/2024 | | |
| MG VHS | 0/5 | 01/08/2024 | | 30/07/2024 | | 29/08/2024 | | |
| MG PRV | 5/5 | 07/08/2024 | | 07/08/2024 | | 29/08/2024 | | |
| NSIG | 3/5 | 29/08/2024 | | 29/08/2024 | | 30/08/2024 | | |
| YRUK | 4/5 | 29/08/2024 | | 29/08/2024 | | 30/08/2024 | | |
| HPAT | 5/5 | 29/08/2024 | | 29/08/2024 | | 30/08/2024 | | |
| EPIT | 1/5 | 29/08/2024 | | 29/08/2024 | | 30/08/2024 | | |
| LPAT | 4/5 | 29/08/2024 | | 29/08/2024 | | 30/08/2024 | | |
| GPAT | 5/5 | 29/08/2024 | | 29/08/2024 | | 30/08/2024 | | |
| MPAT | 2/5 | 29/08/2024 | | 29/08/2024 | | 30/08/2024 | | |
| SPAT | 3/5 | 29/08/2024 | | 29/08/2024 | | 30/08/2024 | | |
| SALH | 5/5 | 29/08/2024 | | 29/08/2024 | | 30/08/2024 | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Report Summary | | | |
|---|---|---|---|
| Case Type | Date | Insp | 2nd Insp |
| DIG, REP | 29/08/2024 | | |
| | | | |
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# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|---|---|---|---|
| **BUSINESS NO** | FB0119 | **DATE OF VISIT** | 25/07/2024 |
| **SITE NO** | FS0646 | **SITE NAME** | Soay |
| **CASE NO** | 20240281 | **INSPECTOR** | [redacted] |

## Section 1: Summary

The above site was inspected following reports of increased mortality by the farm operator. During the physical inspection of the site, five fish were removed for diagnostic sampling.

Histopathology examination revealed features of necrotising myocarditis, myositis and splenitis that could be related to viral infection. Coagulative hepatic necrosis was also observed. Molecular testing confirmed the presence of salmonid alphavirus.

*Yersinia ruckeri* was identified on plates taken from kidney material. The level and purity would suggest that it would be implicated in morbidity.

Five fish tested positive for piscine orthorevirus, the causative agent of heart and skeletal muscle inflammation (HSMI) and *Paranucleospora theridion* by qPCR. Four fish tested positive for *Neoparamoeba perurans*, salmonid alphavirus and infectious pancreatic necrosis virus and two fish tested positive for salmon gill poxvirus by qPCR.

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

The site was inspected following reports of prolonged mortality by the farm operator. At the time of visit the site was stocked with 107,919 Atlantic salmon at an average weight of 3.7kg.

Mortality in the weeks leading up to the date of inspection was mainly being attributed to HSMI and treatment losses. On the date of inspection fish were observed residing deep within the pens. The majority of the population were observed shoaling well however a small population in each pen presented as slightly lethargic. Two fish from pen 6, two fish from pen 3 and one fish from pen 14 were observed displaying clinical signs of disease and were removed for diagnostic sampling.

All fish sampled presented lethargic and moribund prior to removal for sampling. Externally, lice counts were observed as low with only 1 – 3 lice per fish observed of all stages. F1 and F4 had a dark body colour and were anorexic. The eyes of F1 were enophthalmic and the eyes of F4 were exophthalmic. The gills of F1 were pale and the vent of F2, F3 & F5 was inflamed.



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Internally, all fish sampled had clear ascites within the body cavity. Petechial haemorrhaging of the pyloric caeca was observed in F3 and F5. F1 and F5 also had a lack of fat present on the pyloric caeca. No food within the gut was observed in any of the fish sampled. The swim bladder of F2, F3 and F5 was fluid filled. F3 displayed signs of internal haemorrhaging of the gut and haemorrhaging to the body wall.

Samples

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

| Fish number | Facility number | Species | Stage | Origin |
|---|---|---|---|---|
| F1 – F2 | 3 | Atlantic Salmon | 2023 Q2, 3.7kg | Hellisay (FS1261) |
| F3 | 14 | Atlantic Salmon | 2023 Q2, 3.7kg | Hellisay (FS1261) |
| F4 – F5 | 6 | Atlantic Salmon | 2023 Q2, 3.7kg | Hellisay (FS1261) |

Results

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

The following bacteria were isolated:

- *Yersinia ruckeri* : F1 – F5 (Kidney)

From the tests conducted for *Yersinia ruckeri* we have evidence which may indicate some resistance to oxytetracyline, however, there was no evidence of resistance to sulphamethoxazole/trimethoprim, amoxycillin or florfenicol.

**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

| **Fish Number** | **Endogenous control Cp value** | **Cp Values** | | | **Reported Result (PCR)** |
|---|---|---|---|---|---|
| **F1** | - | - | - | - | Negative |
| **F2** | - | - | - | - | Negative |
| **F3** | 18.34 | 35.04 | 35.09 | 34.32 | POSITIVE |
| **F4** | 19.01 | 34.22 | 33.30 | 34.36 | POSITIVE |
| **F5** | - | - | - | - | Negative |



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Salmonid alphavirus (SAV)

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|---|---|---|---|---|---|
| **F1** | - | - | - | - | Negative |
| **F2** | 14.85 | 25.95 | 25.76 | 25.79 | POSITIVE |
| **F3** | 16.82 | 32.62 | 33.66 | 33.24 | POSITIVE |
| **F4** | 16.55 | 32.44 | 32.51 | 32.25 | POSITIVE |
| **F5** | 15.75 | 27.15 | 27.27 | 27.19 | POSITIVE |

Infectious pancreatic necrosis virus (IPNV)

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|---|---|---|---|---|---|
| **F1** | 15.68 | 34.50 | 34.90 | 33.94 | POSITIVE |
| **F2** | - | - | - | - | Negative |
| **F3** | 16.82 | 38.51 | 38.25 | 36.25 | POSITIVE |
| **F4** | 16.55 | 35.76 | 35.63 | 35.60 | POSITIVE |
| **F5** | 15.75 | 32.20 | 32.27 | 32.74 | POSITIVE |

Piscine orthoreovirus (HSMI)

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|---|---|---|---|---|---|
| **F1** | 15.48 | 37.79 | 38.82 | 36.60 | POSITIVE |
| **F2** | 15.29 | 35.32 | 34.33 | 35.20 | POSITIVE |
| **F3** | 16.68 | 36.49 | 36.77 | 36.12 | POSITIVE |
| **F4** | 16.33 | 35.95 | 38.26 | 36.60 | POSITIVE |
| **F5** | 15.51 | 37.74 | 37.11 | 35.93 | POSITIVE |

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), infectious salmon anaemia virus (ISAV), 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** | 18.79 | 33.47 | 33.97 | 33.72 | POSITIVE |
| **F2** | - | - | - | - | Negative |
| **F3** | 18.34 | 35.40 | 34.91 | 35.09 | POSITIVE |
| **F4** | 19.01 | 31.67 | 31.81 | 32.01 | POSITIVE |
| **F5** | 18.72 | 32.08 | 31.60 | 31.61 | POSITIVE |



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*Paranucleospora theridion*

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|---|---|---|---|---|---|
| **F1** | 18.79 | 31.91 | 31.67 | 31.87 | POSITIVE |
| **F2** | 19.25 | 36.27 | 36.69 | 38.24 | POSITIVE |
| **F3** | 18.34 | 29.29 | 30.03 | 29.61 | POSITIVE |
| **F4** | 19.01 | 29.99 | 30.32 | 30.14 | POSITIVE |
| **F5** | 18.72 | 26.18 | 26.58 | 26.57 | POSITIVE |

**Histology:** Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from F1 – F5. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

**Gill:** Some lamellar epithelial hyperplasia and fusion (F1-F5). Several basophilic epithelial inclusions (likely epitheliocystis) observed in F4. Few lamellar telangiectasia with multifocal thrombosis (F2-F5). Some post-mortem artefacts also observed.

**Skin & Muscle:** White musculature inflammation and fibre necrosis, very mild to mild, multifocal (F2, F3).

**Heart:** Ranging from mild to marked and from multifocal to diffuse, necrotising myocarditis (F1-F5). F5 also displayed 2 areas basophilic nests at compact/spongy layer junction. Epicarditis, mild (F2, F4).

**Gut and pyloric caeca:** Peritonitis, mild (F1, F2, F5). Some cell sloughing (potentially associated with post-mortem artefact) observed in F3 & F5.

**Pancreas:** Within the normal range.

**Liver:** Hepatocellular necrosis, mild, multifocal (F2, F3) to a lesser extension in F4. Some sinusoidal congestion, subcapsular, focal (F1). Hepatocellular vacuolation (macrovesicles), mild, diffuse (F3, F4). Some cuffing (F4). Capsulitis (F3).

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

Signed: [redacted] Date: 30/08/2024

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)

R09

2024-0281

F1

F1 C3
11.15
SWANN MORTON LIMITED
EFFIELD S6 2BH ENGLAND
www.swann-morton.com

F1 C3
REF 0508
LOT 6042308
2028-08
Swann-Morton
SHEFFIELD S6 2BJ ENGLAND
DISPOSABLE SCALPEL
2797
UK

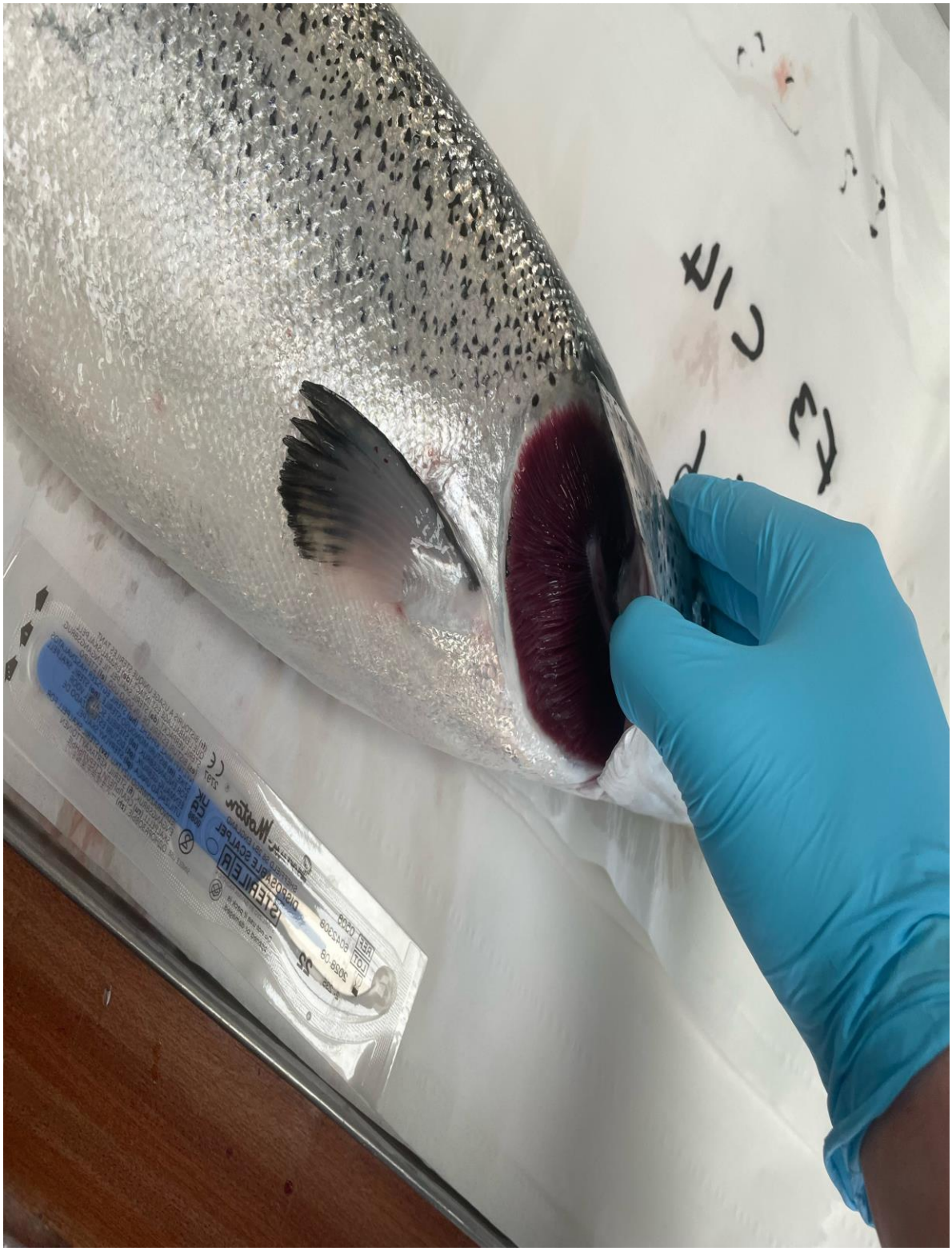
REF 0508
LOT 6042308
2028-08
2- 235
22
Swann-Morton
SHEFFIELD S5 2BJ ENGLAND
DISPOSABLE SCALPEL
STERILE R
2797
UK CA 0086

**F2**

F2 C3
11:30

STERILE R
Disposable scalpel
Smiths Medical
REF 0208
LOT 80458308
8-938
SS

**F3**



STERILE
DISPOSABLE SCALPEL
Gamma-Medizintechnik

**F4**

STERILE
Disposable Scalpel
Swann-Morton
LOT 6045308
REF 0208
SS
5058-08

**F5**

REF 0508
LOT 604/2308
2028-08
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