

Case No: 2023-0081 Date of visit: 11/10/2023

Time spent on site: 2.5 hrs Main Inspector: [Redacted]

Site No: FS1267 Site Name: Gometra
Business No: FB0169 Business Name: Bakkafrost Scotland

Case Types: 1 REP 2 REG 3 4 5 6

Water Temp (°C): Thermometer No: T304 FHI 045 completed

Observations: Region: ST Water type: S CoGP MA M-37

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:

Adverse weather prevented access to site

Additional Case Information:

Paperwork by [REDACTED], observed by [REDACTED]

High winds prevented access to site, paperwork completed at shorebase. Site staff were unable to undertake daily duties at site due to adverse weather. Site observed on camera's at shorebase and large swell going through site which is exposed, especially to westerly winds. Fish are fed from shorebase feeding station, they were observed shoaling well.

Site manager reported that mortalities have decreased as water temperatures have decreased, although temperatures are still reported to be over 14°C, (14.2°C was displayed by site systems at time of inspection).

Site staff controlling/monitoring feeding from shorebase reported that wrasse could be observed feeding on sea lice, where as the lumpfish didn't display the same behaviour. Bakkafrost are reported to be moving from lumpfish to wrasse for cleaner fish and these were reported to be the last batch of lumpfish that will be input to a Bakkafrost site.

The pens on the westerly side of the site were reported to be worst affected by microjellies (muggiae), although all cages suffered mortalities. From most recent health report muggiae were still being observed in the 5m and 10m trawls, although other species of micro jellyfish were now at lower levels.

Site reportedly trialed skirts to keep microjellies out of cages, these were reported to be ineffective, aeration was also used and this was reported to have a positive effect, with the numbers of microjelly fish observed in cages reportedly almost half of that outside.

WRA mortality w/b 09/10 - 13 (0.07%), w/b 02/10 - 71 (0.36%), w/b 25/09 - 255 (1.29%), w/b 09/10 - 459 (2.26%)

LUM mortality w/b 09/10 - 31 (0.11%), w/b 02/10 - 65 (0.24%), w/b 25/09 - 274 (0.99%), w/b 18/09 - 475 (1.69%)

Worst affected pen (pen 2) was harvested on 10/10/23 and the second worst affected pen (pen 14) is due to be harvested next week (W/B 16/10/23), the site manager expected the mortalities to drop below 1% after pen 14 was harvested.

Case No: 2023-0081

Site No: FS1267

Date of Visit: 11/10/2023

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	16	Facilities stocked	15	No facilities inspected	16
Species	SAL	WRA	LUM		
Age group	2022 Q3	Wild	2022		
No Fish	339,000	19,500	27,000		
Mean Fish Wt	3kg	Mixed	Mixed		
Next Fallow Date (Site)	Feb 2024		Next Input Date (Site)	Sept 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: 21/06/2023
- 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? Whole fish - Dundas Chemicals
- If other detail:
- 3. Mortality records complete and correctly entered? Y
- 4. Recent mortality (last 4 wks): wk 41 (09/10 to 11/10) - 1,033 (0.30%), WK 40 - 5,824 (1.69%), WK 39 (11,580), WK 38 - 17,344 (4.63%) - Main cause of mortality gill issues attributed to jelly fish earlier in summer 2023.
- 5. Evidence of recent increased/atypical mortalities? Y
- If yes, facility nos/no mortality per facility/no stock per facility/reason:
- Mortalities across all cages on site - attributed to gill damage due to microjelly fish.
- 6. Any other peaks in mortality during period checked? Y
- If yes, detail: Refer to Mortality Event spreadsheet
- 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:	Otpomease	
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"/>	N
5. If yes, what treatment(s)?		
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"/>	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).		

SRS lesion reported visually, mostly environmental damage to gills.

Records checked between: 21/06/23 to 11/10/23



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0169	DATE OF VISIT	11/10/2023
SITE No	FS1267	SITE NAME	Gometra
CASE No	20230081	INSPECTORS	[REDACTED]

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected following reports of mortalities above the reporting thresholds for a prolonged period. Due to adverse weather conditions the site could not be accessed. Mortality levels were monitored and fell below the reporting threshold following the visit.

Records

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

Medicine records were inspected and found to be adequately maintained.

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

Signed:

Date: 23/11/23

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 \(www.gov.scot\)](http://www.gov.scot/Topics/marine/science)

R10

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

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:

Paperwork and Inspection by [REDACTED], observed by [REDACTED], Inspector Competency audit conducted by [REDACTED]. Stock details and BMP inspected on 11/10/23 prior to site inspection, remaining paperwork inspected on 12/10/23 at shorebase.

Site currently consists of 6 x 60m circles, stocked with 2 pens of 2021 year class (48,183 @ 1.407kg) and 4 pens of 2022 year class (96,121 @ 1.430kg).

No inputs to site since Jan 2023, fish are normally input to site before being split to other sites within Loch Etive. Current applications in planning system to change species from rainbow trout to Atlantic salmon. It was reported that the intention was thought to be to use the sites as nursery sites if successful in changing species. It was reported that no fish had been taken on to site with the intention of following the loch (dependant on out come of planning application) of rainbow trout.

No issues noted on site, fish were observed shoaling well and no sea lice were observed on the fish sampled for VMD.

All sites within Loch Etive are now reported to have seal pro nets with triple panelling at the waterline and the base of the net. Historically it was reported that from mid November the salinity in the sea loch drops, until spring the following year, which reduces the need to conduct sea lice treatments.

Sites have switched to Aquafarmer in June 2023, prior to this records are in a different system.

Scottish Sea Farms (SSF) also operate within the FMA, no FMAg in place ,but a copy of SSF FMS was available and it was reported that regular communications are held between Dawnfresh and SSF. An MoU is in place between Dawnfresh and SSF and Dawnfresh also have a risk assesment for not synchronously following their sites.

Site manager reported that with the heavy rainfall experienced recently the water temperatures had dropped by a couple of degrees over the last 2 weeks.

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="6"/>	Facilities stocked	<input type="text" value="6"/>	No facilities inspected	<input type="text" value="6"/>
Species	<input type="text" value="RTR"/>				
Age group	<input type="text" value="MVG"/>				
No Fish	<input type="text" value="144,304"/>				
Mean Fish Wt	<input type="text" value="1.423kg"/>				
Next Fallow Date (Site)	<input type="text" value="Dec 2023"/>	Next Input Date (Site)	<input type="text" value="Unknown"/>		
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"/>	Y
If yes, detail:	T.M.S., Azamethiphos	
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)?	T.M.S., Azamethiphos	
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"/>	N
If yes, detail (if not detailed under recent disease problems).		

Records checked between:	05/10/22 to 12/10/23
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Case Number:	2023-0161	Site No:	FS1067	Insp:		
Date of Visit	12/10/2023	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	0
	Number of suppliers	0	5	10	14	5
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				
	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		1
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				
	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		2
	Sites sharing staff and equipment	0	1	2		2
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					31	HIGH

Case No: **2023-0161**

Site No: **FS1067**

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 nets, top nets, tensioned 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: 2023-0161

Site No: FS1067

Date of Visit: 12/10/2023

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	FB0456	DATE OF VISIT	12/10/2023
SITE No	FS1067	SITE NAME	Inverawe (East) Etive 2
CASE No	20230161	INSPECTORS	[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.

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.

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: 30/10/23

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

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:

Paperwork, site inspection and sampling by [REDACTED], observed by [REDACTED]. [REDACTED] conducted an Inspector Competency audit. Stock details and BMP inspected 11/10/23 before site inspection, remaining paperwork completed on site on 12/10/23. 10 x 100m pens on site, 9 stocked at time of inspection. Site manager reported that site had consent for 12 cages. All pens fitted with seal pro nets, triple panel at the water line and the base of the net. Last EC inspection was 15/05/21, SLA was conducted on 06/10/21.

Site experienced high levels of *L. salmonis* during autumn 2021 and Autumn 2022, this was reportedly due to algal blooms within the loch which prevented treatments being conducted. Site manager reported that August 21 the sites experienced a quick resettlement of *L. salmonis*, which was attributed to a failure with the filters on the treatment boat (Skamik system). 1-2 fish observed per pen, with lesion behind dorsal fin, these fish were very active and shoaling with the general population, no dead or moribund fish observed during inspection. Most recent health reports detailed no conclusive bacteriology findings for cause of lesions.

Fish in most easterly cages observed facing in to the current, which was reportedly much stronger than usual due to increase water being released down the river Awe from the power station following the prolonged period of heavy rain. All fish appeared healthy and pens away from the two pens at the eastern end of the pen group, were shoaling normally. Fish sampled for VMD appeared in good condition, with no sea lice visible.

Unsure of future plans for site at present, currently applications in for changing species on site from RTR to SAL, outcome of those applications will determine the next stocking date, at present the site is due to fallow by the end of the year.

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="10"/>	Facilities stocked	<input type="text" value="10"/>	No facilities inspected	<input type="text" value="10"/>
Species	<input type="text" value="RTR"/>				
Age group	<input type="text" value="MVG"/>				
No Fish	<input type="text" value="296,922"/>				
Mean Fish Wt	<input type="text" value="2.872kg"/>				
Next Fallow Date (Site)	<input type="text" value="Dec 2023"/>	Next Input Date (Site)	<input type="text" value="Unknown"/>		
Recent (last 4 wks) disease problems?	<input type="text" value="N"/>		Any escapes (since last visit)?	<input type="text" value="Y"/>	
If yes, detail:	<input type="text" value="MSe151122RTR1 - 0 fish reported to have been lost."/>				

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., Salmosan
 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., Salmosan
 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: 15/06/21 to 12/10/23

Case Number:	2023-0162	Site No:	FS1112	Insp:			
Date of Visit	12/10/2023	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		1	
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				3	
	Collection point for waste from other farms	5				0	
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		2	
	Sites sharing staff and equipment	0	1	2		2	
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	25	
						MEDIUM	

Case No: 2023-0162

Site No: FS1112

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? | Y |
| 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 (<i>L. salmonis</i>) record levels below the suggested criteria for treatment in the CoGP during the period that records are inspected? (CoGP Annex 6) | N |
| 8. Have average adult female sea lice (<i>L. salmonis</i>) 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? | Y |
| If yes, have these been reported to the Fish Health Inspectorate? If no, FHI see comment. | Y |
| 9. Is <i>C. elongatus</i> 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 <i>L. salmonis</i> levels have exceeded the suggested criteria for treatment or where <i>C. elongatus</i> is considered to have welfare implications? (CoGP 4.3.82, 5.3.51) | Y |
| 11. Has any other action been taken (where applicable)? | Y |
| 12. Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded? | Y |
| 13. Are treatments, where conducted, carried out in cooperation between participating farms? | N |
| 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? | Y |
| 2. Are measures in place to mitigate against the predation experienced on site? (Detail below) | Y |

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? | Y |
| If Yes proceed with questions 4 – 9. If No skip to question 10 | |
| 4. Have these been reported to Scottish Ministers? | Y |
| 5. Have these been reported to local DSFB forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17) | Y |
| 6. Have these been reported to the SSPO and local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17) | Y |
| 7. Were methods (if any) used to recover escapees? If yes give detail | N/A |
| 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) | N/A |
| 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) | All nets upgrade to SealPro nets |
| 10. Is the site inspected as satisfactory with regards to containment? If no, please detail reason(s) | Y |

Case No: 2023-0162

Site No: FS1112

Date of Visit: 12/10/2023

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	FB0456	DATE OF VISIT	12/10/2023
SITE No	FS1112	SITE NAME	Etive 4
CASE No	20230162	INSPECTORS	[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.

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.

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: 30/10/23

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: HI 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:

Site inspected at low tide. Bags were securely closed on trestles, some overgrowth with seaweed and some irregular shapes in smaller stock. Site rep stated the site required grading. No unusual mortality observed - if any unexplained mortality is observed (open shells with meat still inside shell) records will be kept detailing number of unexplained mortality and date. Empty shells, taken to Melness waste transfer for disposal. Paperwork conducted by email with business owner as she was not available at the time of inspection, reminded to record species of oyster in movement records.

Sampling details of 30 CGI undertaken for CER on request of Morecambe Bay Oysters - results emailed to Morecambe Bay and business owner.

Site centre left batch: likely 2020 stock (85g approx.)

Shucking and sampling conducted by:

F1: [REDACTED]

F2: [REDACTED]

F3: [REDACTED]

F4: [REDACTED]

F5: [REDACTED]

F6: [REDACTED]

F7: [REDACTED]

F8: [REDACTED]

Top right corner batch, likely 2022 stock (20g approx.)

Shucker: [REDACTED]

Sampler: [REDACTED]

F9 - F15:

Middle right, likely 2022 stock (20g approx.)

Shucker: [REDACTED]

Sampler: [REDACTED]

F16 - F22

Bottom line. Middle site, likely 2021 stock (60g approx.)

Shucker: [REDACTED]

Sampler: [REDACTED]

F23 - F30

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="15,000"/>	Facilities stocked	<input type="text" value="5,000"/>	No facilities inspected	<input type="text" value="All"/>
Species	<input type="text" value="CGI"/>	<input type="text" value="CGI"/>	<input type="text" value="CGI"/>	<input type="text" value="OED"/>	<input type="text" value=""/>
Age group	<input type="text" value="2022"/>	<input type="text" value="2021"/>	<input type="text" value="2020"/>	<input type="text" value="mixed"/>	<input type="text" value=""/>
No Fish	<input type="text" value="~2million"/>	<input type="text" value="~2million"/>	<input type="text" value="800,000"/>	<input type="text" value="15,000"/>	<input type="text" value=""/>
Mean Fish Wt	<input type="text" value="30g"/>	<input type="text" value="70g"/>	<input type="text" value="150g"/>	<input type="text" value="unknown"/>	<input type="text" value=""/>
Next Fallow Date (Site)	<input type="text" value="N/A"/>		Next Input Date (Site)	<input type="text" value="Unknown"/>	
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?		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:	11/03/2021 - 02/10/2023
--------------------------	-------------------------

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	F6	F7	F8	F9	F10	F11	F12
Fish nos	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Pool Group												
Species	CGI	CGI	CGI	CGI	CGI	CGI	CGI	CGI	CGI	CGI	CGI	CGI
Average weight	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.1000	0.0200	0.0200	0.0200	0.0200
Sex	N/A	N/A	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	SW	SW
Stock Details	Tralee Bay Hatchery (Ireland)	Tralee Bay Hatchery (Ireland)	Tralee Bay Hatchery (Ireland)	Tralee Bay Hatchery (Ireland)	Tralee Bay Hatchery (Ireland)	Tralee Bay Hatchery (Ireland)	Tralee Bay Hatchery (Ireland)	Tralee Bay Hatchery (Ireland)	Tralee Bay Hatchery (Ireland)	Seasalter (UK)	Seasalter (UK)	Seasalter (UK)
	Stock Origin	Tralee Bay Hatchery (Ireland)	Tralee Bay Hatchery (Ireland)	Tralee Bay Hatchery (Ireland)	Tralee Bay Hatchery (Ireland)	Tralee Bay Hatchery (Ireland)	Tralee Bay Hatchery (Ireland)	Tralee Bay Hatchery (Ireland)	Tralee Bay Hatchery (Ireland)	Seasalter (UK)	Seasalter (UK)	Seasalter (UK)
Facility No	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom	Top right	Top right	Top right

10/2023 Additional Sample Information:
 CGI collected 2/10/23 [redacted] Sampling conducted in PM room on 3/10/23 - see additional info.

30 Total Tests assigned 1

F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26	F27	F28
F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26	F27	F28
CGI	CGI	CGI	CGI	CGI	CGI	CGI	CGI	CGI	CGI	CGI	CGI	CGI	CGI	CGI	CGI
0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0600	0.0600	0.0600	0.0600	0.0600	0.0600
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
Seasalter (UK)	Seasalter (UK)	Seasalter (UK)	Seasalter (UK)	Seasalter (UK)	Seasalter (UK)	Seasalter (UK)	Seasalter (UK)	Seasalter (UK)	Seasalter (UK)	Seasalter (UK)	Seasalter (UK)	Seasalter (UK)	Seasalter (UK)	Seasalter (UK)	Seasalter (UK)
Top rig	Top rig	Top rig	Middle	Middle	Middle	Middle	Middle	Middle	Middle	Bottom	Bottom	Bottom	Bottom	Bottom	Bottom

Case Number:	2023-0438	Site No:	SS0354		
Date of Visit	02/10/2023	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	
	Frequency of movements on from equivalent zone or compartment including third country	0	10	20	
	Number of suppliers	0	5	10	
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	
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	0
	Sites sharing staff and equipment	0	1	5	
			Yes	No	
	Disinfection of equipment between sites, use of footbaths etc		0	2	
				Total Risk	31 HIGH



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No SB0525
SITE No SS0354
CASE No 20230438

DATE OF VISIT 02/10/2023
SITE NAME Kyle of Tongue Oysters
INSPECTOR [REDACTED]

Certification Test

Thirty Pacific oysters (*Crassostrea gigas*) were tested for the presence of a segment of DNA indicative of the presence of ostreid herpesvirus 1 μ var (OsHV-1 μ var) by PCR.

Number	Stage	Origin	Result
1-8	2020 stock	Tralee Bay Hatchery	Negative
9-15	2022 stock	Seasalter UK	Negative
16-22	2022 stock	Seasalter UK	Negative
23-30	2021 stock	Seasalter UK	Negative

No evidence of OsHV-1 μ var was found in the samples examined.

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: 06/10/2023

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/Topics/marine/science)



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0525	DATE OF VISIT	02/10/2023
SITE No	SS0354	SITE NAME	Kyle of Tongue Oysters
CASE No	20230438	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. The Inspector did not observe any clinical signs associated with the listed diseases as described in the Aquatic Animal Health (Scotland) Regulations 2009.

Samples were taken for certification. A separate report has been issued detailing the results of these tests.

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 found to be inadequately 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.

The following points were raised with the site representative: the species of oyster being moved was not included in the movement records.

Following confirmation of the species moved, the records submitted have been amended. Please ensure amendments are made to the original records and all future records include the species of oysters being moved.

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

Signed:



Date: 19/10/2023

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: 2023-0449 Date of visit: 02/10/2023

Time spent on site: 4 Hours Main Inspector:

Site No: FS0502 Site Name: Scotasay

Business No: FB0169 Business Name: Bakkafrost Scotland

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

Water Temp (°C): 13.35 Thermometer No: T309 FHI 045 completed N/A

Observations: Region: WI Water type: S CoGP MA W-8

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:

Scotasay is currently stocked with fish from Applecross, Barcaldine and Landcatch. So far, they have had a good start to the cycle, mortality on site has remained low since input. In mid August of this year the site experienced a bloom of micro jellyfish which has lead to some environmental damage to the gills. Pens 6 and 8 were worst affected and are displaying some elevated scores for PGD. The site treated with freshwater on 27/08/2023 (Ronja Star) and again on 18/09/23 (Ronja Fisk) which has had a successful impact on treating the gills. Sea lice infestations have remained below the treatment threshold for the duration of this cycle thus far, the site conducted a precautionary SLICE treatment from 28//08/23 - 04/09/23.

The site has been continually stocking with wild caught ballan wrasse between 16/09/23 - 22/09/23. Two cleanerfish mortality events were observed occurring during the inspection of the sites records for this production cycle. These mortality events occurred during the two freshwater treatments the site has conducted this cycle, the first being on 27/08/23, 1766 (26.07%) and 3,521 (49.63%). For 24 hours prior to each FW treatment the site deployed 3 - 4 baited creels into each stocked pen in attempt to remove cleanerfish prior to treatment. The site also tried to separate the salmon stock from the cleaner fish stock using the well boats however this proved difficult due to the wrasse being of similar size to the salmon stocks.

Upon the physical inspection of the stock, fish were observed shoaling well and responding positively to routine feeding regimes. No clinical signs of disease were observed during the inspection of the stocks.

Fish removed for VMD sampling appeared healthy, with no gross pathology observed.

Cleanerfish : Week 39 (32, 0.90%), Week 38 (3,521, 49.63%), Week 37 (21, 0.35%), Week 36 (80, 1.31%).

Case No: **2023-0449** Site No: **FS0502**

Date of Visit: **02/10/2023** 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	8	Facilities stocked	8	No facilities inspected	8
Species	SAL	Wrasse			
Age group	2023 Q2	Wild caught			
No Fish	822,449	3,415			
Mean Fish Wt	758.3g	200g			
Next Fallow Date (Site)	Feb 2025		Next Input Date (Site)	May 2025	
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?
- 2. Date of last inspection: **15/12/2021**
- 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: **Whole fish waste stored in skips and taken to whiteshore cockles.**
- 3. Mortality records complete and correctly entered?
- 4. Recent mortality (last 4 wks): **Week 39 (1,959, 0.24), Week 38 (2,470, 0.30), Week 37 (1,675, 0.20%), Week 36 (1864, 0.22%). Cleaner fish mortality - see additional info.**
- 5. Evidence of recent increased/atypical mortalities?
- If yes, facility nos/no mortality per facility/no stock per facility/reason: **See additional information relating to cleanerfish mortality.**
- 6. Any other peaks in mortality during period checked?
- If yes, detail: **[REDACTED]**
- 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)?	<input type="checkbox"/>	Y
If yes, detail:	Optomease	
If other, detail:	SLICE	
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)?	Optomease	
If other, detail:	SLICE	
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).	AGD and PGD.	

Records checked between:	15/12/2021 - 02/10/2023
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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/Pool - click

Pool/Fish No												
Fish nos	F1 - F3	F4-F6	F7-F9	F10-F12								
Pool Group												
Species	SAL	SAL	SAL	SAL								
Average weight	758g	758g	758g	758g								
Sex	N/A	N/A	N/A	N/A								
Water Type	SW	SW	SW	SW								
Stock Details		Applecross Smolt Unit(FS0500)	Couldoran Hatchery (FS0301)	Ormsary Smolt Unit (FS0575)	Ormsary Smolt Unit (FS0575)							
	Stock Origin											
Facility No	4	5	6	7								

Case Number:	2023-0449	Site No:	FS0502	Insp:		
Date of Visit	02/10/2023	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		2
	Sites sharing staff and equipment	0	1	2		2
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					22	MEDIUM

Case No: **2023-0449**

Site No: **FS0502**

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, bird poles

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: 2023-0449

Site No: FS0502

Date of Visit: 02/10/2023

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	02/10/2023
SITE No	FS0502	SITE NAME	Scotasay
CASE No	20230449	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.

R25
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/>

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: 27/10/2023

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 \(www.gov.scot\)](http://www.gov.scot/policies/fish-health-inspectorate/)

Case No:	<input type="text" value="2023-0451"/>	Date of visit:	<input type="text" value="30/11/2023"/>			
Time spent on site:	<input type="text" value="1 hour"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="SS0877"/>	Site Name:	<input type="text" value="Leac Nan Sgarbh Little Loch Broom"/>			
Business No:	<input type="text" value="SB0534"/>	Business Name:	<input type="text" value="Charron Ltd"/>			
Case Types:	1 <input type="text" value="ECI"/>	2 <input type="text" value=""/>	3 <input type="text" value=""/>	4 <input type="text" value=""/>	5 <input type="text" value=""/>	6 <input type="text" value=""/>
Water Temp (°C):	<input type="text" value="N/A"/>	Thermometer No:	<input type="text" value=""/>	FHI 045 completed	<input type="text" value=""/>	
Observations:	Region:	HI	Water type:	S	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:

Mortality related to Pacific oysters is <3% per grading, for Natives it is a touch higher 5 to 10% per grading (per annum figure). This is in line with what expect for site, in fact the level of mortality in the natives is falling but this could also be influenced by weather patterns.

Main business for the site is native oysters on for restoration projects. No disease issues observed. Heriot Watt had a full disease analysis of a sample of Natives performed within the last month for the Restoration Forth project in the Firth of Forth. This returned clear for all test points.

temperate not taken as tide was out at time of inspection.

Stocks looked good on inspection and very few dead shells observed.

Note; long line site but requires a low tide for inspection as lines are attached to sea bed.

Paperwork and inspection by [REDACTED]. Observed by [REDACTED].

Case No: 2023-0451

Site No: SS0877

Date of Visit: 30/11/2023

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	48 lines	Facilities stocked	29 lines	No facilities inspected	48 lines
Species	OED	OED	OED	OED	Pacific
Age group	seed	GN20K	Market	19	Market
No Fish	6,800	8,530	5,200	3,315	24,505
Mean Fish Wt	<12g	30-50g	50g+	50g+	85g+
Next Fallow Date (Site)	none planned			Next Input Date (Site)	Spring or summer 2024
Recent (last 4 wks) disease problems?				N	Any escapes (since last visit)?
If yes, detail:					

Movement Records

- 1. Movement records available for inspection? Y
- 2. Date of last inspection: 30/08/2022
- 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)?
- 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? Domestic waste - <25kg
- If other detail:
- 3. Mortality records complete and correctly entered? Y
- 4. Recent mortality (last 4 wks): none observed
- 5. Evidence of recent increased/atypical mortalities? N
- If yes, facility nos/no mortality per facility/no stock per facility/reason:
- 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. N/A

Treatments and Medicines Records

1. Recent treatments (see comment)?	<input type="checkbox"/>
If yes, detail:	
If other, detail:	
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)?	
If other, detail:	
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:		

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).		

Records checked between:	30/9/23- 30/11/23
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Case Number:	2023-0451	Site No:	SS0877		
Date of Visit	30/11/2023	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	
	Number of suppliers	0	5	10	
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	6
	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	
	Depuration of stock from sites outwith MSS management area	0	4	8	
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	5	
			Yes	No	
	Disinfection of equipment between sites, use of footbaths etc		0	2	0
				Total Risk	40 HIGH



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0534	DATE OF VISIT	30/10/2023
SITE No	SS0877	SITE NAME	Leac Nan Sgarbh Little Loch Broom
CASE No	20230451	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.

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.

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 \(www.gov.scot\)](http://www.gov.scot/resources/consultations-policies/fish-health-inspectorate-service-charter/)

Case No: 2023-0454 Date of visit: 02/10/2023

Time spent on site: 1h Main Inspector: [Redacted]

Site No: SS0476 Site Name: Seafield Centre
Business No: SB0502 Business Name: Seafield Oysters

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

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

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:
[Redacted]

Additional Case Information:

8 bags of CGI and 2 bags of OED.

Water quality A in the winter and B in the summer

No plans to restock.

CGI, 20 morts counted for the year. OED single figures recorded for the year.

No movements on or off site since the last inspection.

Once remaining stocks are sold site will likely be deregistered.

Case No: **2023-0454** Site No: **SS0476**
 Date of Visit: **02/10/2023** 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	11 trestles (10 bags)	Facilities stocked	11	No facilities inspected	11
Species	OED	CGI			
Age group	Mixed	Mixed			
No Fish	70	~1500			
Mean Fish Wt	mix	mix			
Next Fallow Date (Site)	No plans		Next Input Date (Site)	no plans	
Recent (last 4 wks) disease problems?		N	Any escapes (since last visit)?		N/A
If yes, detail:					

Movement Records

- 1. Movement records available for inspection? **y**
- 2. Date of last inspection: **27/07/2022**
- 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)? **N/A**
- If yes, is there a system in place for maintenance of transportation records? **N/A**

Mortality Records

- 1. Mortality records available for inspection? **y**
- 2. How are mortalities disposed of? **Other (detail)**
- If other detail: **Shells crushed**
- 3. Mortality records complete and correctly entered? **y**
- 4. Recent mortality (last 4 wks): **see additional information**
- 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)?	
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/A
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:	27/7/2022 to 2/10/2023
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Case Number:	2023-0454	Site No:	SS0476		
Date of Visit	02/10/2023	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	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	0
	Sites sharing staff and equipment	0	1	5	0
		Yes No			
	Disinfection of equipment between sites, use of footbaths etc	0	2		0
				Total Risk	33 HIGH



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0502	DATE OF VISIT	02/10/2023
SITE No	SS0476	SITE NAME	Seafield Centre
CASE No	20230454	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 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: 10/10/2023

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: 2023-0456 Date of visit: 03/10/2023

Time spent on site: 3h Main Inspector:

Site No: FS1310 Site Name: Loch Pooltiel
Business No: FB0134 Business Name: Kames Fish Farming Ltd

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

Water Temp (°C): 13.9 Thermometer No: T173 FHI 045 completed

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:

Two dead fish observed in one pen. One pen inspected fully the remaining from the boat due to weather conditions.

Recent morts, wk 39 289 (0.06%), wk 38 766 (0.15%), wk 37 362 (0.07%), wk 36 1426 (0.28%)

Stock reportedly growing well.

Currently only operational site in the management area and reportedly has been since 2021. There was a Farm Partnership Agreement with Grieg but the sites have been taken on by a new operator. The agreement included the synchronisation of treatments and fallowing but the other sites in the management area have not been stocked so no discussion has occurred as of yet.

Site is using seal pro nets in all but one pen, manager reports this had been very effective against seal predation.

Peaks in mortality 2023 wk 33 4212 (0.80%), wk 27 2395 (0.45%) post transfer, wk 18 1831 (0.57%), wk 17 2155 failed fish, seal, handling (0.67%) failed fish/seal wk 16 1647 (0.51%) failed fish

Peaks in mortality 2022, wk 48 1092 (0.94%) post transfer/PKD, wk 47 1234 (1.05%) post transfer/failed fish, wk 46 (1517 (1.28%) post transfer/failed fish and PKD

Peaks in mortality 2021, wk 30 4599 (1.27%) failed fish, wk 29 4711 (1.26%) failed fish

No live fish movements offsite.

Case No: 2023-0456 Site No: FS1310

Date of Visit: 03/10/2023 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)

Table with 7 columns: Total No facilities, Species, Age group, No Fish, Mean Fish Wt, Next Fallow Date (Site), Next Input Date (Site), Any escapes (since last visit)?

Movement Records

- 1. Movement records available for inspection? y
2. Date of last inspection: 12/11/2020
3. Are records complete and correctly entered? Y
4. Are movement records available for dead fish and waste? Y
5. Are records complete and correctly entered? Y
6. Are health certificates for introductions (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? Incinerated - on site
3. Mortality records complete and correctly entered? Y
4. Recent mortality (last 4 wks): see additional information
5. Evidence of recent increased/atypical mortalities? N
6. Any other peaks in mortality during period checked? Y
7. Have increased (unexplained) mortalities been reported to vet or FHI? N/A
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"/>	N
If yes, detail (if not detailed under recent disease problems).		

Records checked between:	12/11/2020 to 3/10/2023
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Case Number:	2023-0456	Site No:	FS1310	Insp:		
Date of Visit	03/10/2023	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	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		0
	Sites sharing staff and equipment	0	1	2		
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					3	
Rank					LOW	

Case No: **2023-0456**

Site No: **FS1310**

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 ter top nets Regular diver visits

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: 2023-0456

Date of visit: 03/10/2023

Site No: FS1310

Inspector: [REDACTED]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp

Report Summary			
Case Type	Date	Insp	2 nd Insp
ECI,CNI,SLI	10/10/2023		



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0134	DATE OF VISIT	03/10/2023
SITE No	FS1310	SITE NAME	Loch Pooltiel
CASE No	20230456	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.

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.

R25

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/>


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: 10/10/2023

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: ST Water type: S CoGP MA: M-45

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:

Salmon came march this year, wrasse in June

Stock on site have come from - Applecross, Kinlochmoidart, Harris Lochs, Hebridean Smolt (Clachen Hatchery) and Couldoran - Most stock are native Hebridian.

Wrasse mortalities - Wk38 - 2.48% (1,321), Wk37 - 2.92% (1,600), Wk36 - 2.98% (1,470), Wk35 - 2.88% (1,250). Wrasse mortality attributed to environmental reasons - jellyfish, possible pollution from forestry upstream (wrasse don't like suspended solids in the water).

Freshwater treatments last week and the rest of the site is being treated tonight.

Latest health report - systemic bacterial infection. Furunculosis, suspected *Tenacibaculum* sp., mixed gill infections with AGD, *Branchiomonas*-like epitheliocysts and lamellar pathology suspicious of infection with *Desmozoon lepeophtherii*. Waterborne environmental damage to gills - possibly jellyfish or stinging cell contact.

Health team including head vet are on site today to collect samples for general health screening.

Sealice - SLICE was a precautionary measure.

During physical inspection of the site, 4 out of 16 pens had a couple of mortalities observed on the surface of the water. No moribund fish were observed on site. A handful of lethargic fish were observed across the whole site but when approached all fish swam off quickly. Water visibility on site was poor due to the large volume of freshwater input from the recent wet weather. Fish that were observed were shoaling a few feet below the water surface.

Fish for VMD samples were collected from pens 1, 4 and 10. Fish sampled for VMD appeared healthy both externally and internally with no lice observed on any fish collected.

Case No: **2023-0460** Site No: **FS1281**
 Date of Visit: **04/10/2023** 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	16	Facilities stocked	16	No facilities inspected	16
Species	SAL	WRS			
Age group	23Q1	Wild/2023			
No Fish	909,723	51,872			
Mean Fish Wt	1.489 kg	250g			
Next Fallow Date (Site)	August 2024		Next Input Date (Site)	Feburary 2025	
Recent (last 4 wks) disease problems?		Y	Any escapes (since last visit)?		N
If yes, detail:	SRS on site, furunculosis detected on site and AGD				

Movement Records

1. Movement records available for inspection? **Y**
 2. Date of last inspection: **04/11/2021**
 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)? **Y**
 If yes, is there a system in place for maintenance of transportation records? **Y**

Mortality Records

1. Mortality records available for inspection? **Y**
 2. How are mortalities disposed of? **Biogas - Barkip**
 If other detail: **[REDACTED]**
 3. Mortality records complete and correctly entered? **Y**
 4. Recent mortality (last 4 wks): **SAL: Wk 39 - 1.61% (14,932 fish), Wk 38 - 2.27% (21,593 fish), Wk 37 - 3.47% (34,181 fish), Wk 36 - 3.12% (31,704)**
 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? **Y**
 If yes, detail: **Mortalities above the reporting threshold in summer of 2022 and 2023 attributed to gill health and bacterial infection and gill health respectively.**
 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. **Y**

Treatments and Medicines Records

1. Recent treatments (see comment)?	<input type="checkbox"/>	Y
If yes, detail:	SLICE - 27th August (7 day treatment), last freshwater 2nd October, Optamase	
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)?	Optamase	
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).	See additional info	

Records checked between:	04/11/2021 - 04/10/2023
--------------------------	-------------------------

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/Pool - click

Pool/Fish No												
Fish nos	1-2	3-4	5-6									
Pool Group												
Species	SAL	SAL	SAL									
Average weight	1.4890	1.4890	1.4890									
Sex	N/A	N/A	N/A									
Water Type	SW	SW	SW									
Stock Details	Stock Origin	Clachan Hatchery (FS0398)	Applecross Hatchery (FS1336)	Loch Huamavat (FS0737)								
	Facility No	1	4	10								

Case Number:	2023-0460	Site No:	FS1281	Insp:		
Date of Visit	04/10/2023	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		1
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				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					21	MEDIUM

Case No: **2023-0460**

Site No: **FS1281**

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)
- Top bird nets, sealpro nets, nets are weighed down (20 x 42g chain weights plus a centre weight)**
- 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: 2023-0460

Site No: FS1281

Date of Visit: 04/10/2023

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?

Site No: FS1281
Case No: 2023-0460
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	FB0169	DATE OF VISIT	04/10/2023
SITE No	FS1281	SITE NAME	Sgian Dubh
CASE No	20230460	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.

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.

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.

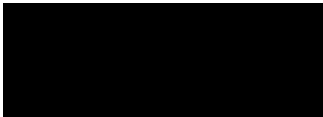
Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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: 11/10/2023

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: 2023-0463 Date of visit: 03/10/2023

Time spent on site: 2.5 hours Main Inspector: [Redacted]

Site No: FS0242 Site Name: Gravir

Business No: FB0169 Business Name: Bakkafrost Scotland

Case Types: 1 DIA 2 REP 3 4 5 6

Water Temp (°C): 13.23 Thermometer No: T309 FHI 045 completed N/A

Observations: Region: WI Water type: S CoGP MA: W-4

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:

Site inspected in order to conduct a further round of diagnostic sampling following increased, further mortality at the site since the date of last inspection, which was 31/07/2023.

Gravir has been harvesting the site out since the start of August this year, during the physical inspection of the site, only one pen remained stocked with 6,000 fish. Due to the size of the pens (120m) only a small number of fish were observed during the inspection, two fish were captured and removed for diagnostic sampling. Of the fish observed during the inspection, clinical signs of disease were observed. Fish appeared extremely lethargic and moribund, some fish presented with a loss of equilibrium in their swimming behaviour and other were observed as being anorexic.

Recent health checks conducted by the companies vet revealed positive results for furunculosis and AGD, which is consistent with the diagnostic findings achieved during the last FHI diagnostic.

No treatments have taken place since the last date of inspection.

Case No: 2023-0463 Site No: FS0242

Date of Visit: 03/10/2023

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 4 columns: Field, Value, Facilities stocked, Next Input Date. Rows include Total No facilities (12), Species (SAL), Age group (2022 S0), No Fish (6,000), Mean Fish Wt (2.5kg), Next Fallow Date (04/10/2023), Recent (last 4 wks) disease problems? (Y), and If yes, detail: (Areomonas salmonicida, AGD, PGD).

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: Whole fish by Whiteshore cockle's, excess mortality has been r
3. Mortality records complete and correctly entered?
4. Recent mortality (last 4 wks): Wk 39 (881, 1.86%), Wk38 10.65%).
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 *increase* 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 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)?

6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission (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?

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:

31/07/2023 - 01/08/2023

Inspector(s): [Redacted]

N
N

1	No facilities inspected	12
te (Site)	08/24	
Any escapes (since last visit)?		N

		Y
	31/07/2023	
		Y
		Y
		Y
		N/A

[Redacted] Y

Other (detail)
removed and ensiled on the Bakkaness.

[Redacted] Y

(3024, 2.32%), Wk37 (24,516, 9.21%), Wk36 (34,281,

[Redacted] N

[Redacted]

[Redacted]

[Redacted] N/A

[Redacted]

[Redacted] N/A

[Redacted]

[Redacted] Y

	<input type="checkbox"/>	N
	<input type="checkbox"/>	
	<input type="checkbox"/>	Y
	<input type="checkbox"/>	Y
	<input type="checkbox"/>	N
	<input type="checkbox"/>	
	<input type="checkbox"/>	Y
	<input type="checkbox"/>	
	<input type="checkbox"/>	
...d (<i>unexplained</i>) mortality at the site been	<input type="checkbox"/>	
...ected been included and <i>how</i> and <i>when</i>	<input type="checkbox"/>	
...tatus, certification if required)?	<input type="checkbox"/>	
...ission of disease been covered	<input type="checkbox"/>	
...imals held on site?	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	Y
	<input type="checkbox"/>	Y
	<input type="checkbox"/>	Y
See additional info		
03/10/2023		

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									
	Fish nos	1	2									
	Pool Group											
Stock Details	Species	SAL	SAL									
	Average weight	2.5kg	2.5kg									
	Sex	N/A	N/A									
	Water Type	SW	SW									
	Stock Origin	Applecross (FS0500)	Applecross (FS0500)									
	Facility No	4	4									

Case no: 2023-0463

Site No: FS0242

Method of killing:

Date of visit: 03/10/2023

Inspector(s):

Sheet Relevant: Y

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

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

Case no: 2023-0463

Date of visit: 03/10/2023

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:

Swollen PC in F2.

Site No: FS0242
Case No: 2023-0463
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	FB0169	DATE OF VISIT	03/10/2023
SITE No	FS0242	SITE NAME	Gravir
CASE No	20230463	INSPECTOR	[REDACTED]

Section 1: Summary

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

Histopathology examination revealed moderate, multifocal, hyperplastic branchitis. F2 also displayed features resembling *Aeromonas salmonicida* (furunculosis). Hepatocellular necrosis and necrotising nephritis also observed. One fish also displayed areas of light HE stain in the compactum stratum.

Aeromonas salmonicida was identified on plates taken from kidney material from both fish tested, the level and purity of growth would suggest that this bacterium is present as a primary pathogen. From our antimicrobial sensitivity testing there is no evidence of resistance to AML, FFC, SXT or OT.

Serratia liquefaciens was identified on plates taken from kidney material of fish 1 and gill material of 2/2 fish. The level and purity of growth would suggest this bacterium may also be implicated in morbidity in this fish.

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 previously inspected on 31/07/2023 and diagnostic samples were taken, please refer to the previous report for results.

The site was reinspected due to continued high levels of reported mortality since the date of last inspection. At the time of inspection, Garvir were nearing the end of their harvest, approximately 6,000 fish were left onsite from one pen which was due to be harvested the following day. Due to the low biomass, only a few fish were observed within this pen. Of the visible stock which was observed, fish appeared lethargic and moribund. Two fish were captured and removed for diagnostic sampling. The stock had previously been diagnosed with Furunculosis and have had ongoing, persistent issues with gill health which had been exacerbated by an environmental insult earlier in the year.

Both fish sampled presented as lethargic and moribund prior to removal for sampling. Externally, F2 had shortened opercula and haemorrhaging was observed at the ventrum. The Gills of both fish were pale. Internally, F2 had bloody ascites within the body cavity, the heart was pale and anaemic

and some tissue breakdown was observed on the liver. Petechial haemorrhaging was observed on the pyloric caeca, the spleen was enlarged and the swim bladder was fluid filled in F2. Both fish had yellow pseudo-faeces present within the gut.

Samples

Samples were collected from 2 fish according to the table below:

Fish number	Facility number	Species	Stage	Origin
F1	4	Atlantic Salmon	2022 S0 2.5kg	Applecross (FS0500)
F2	4	Atlantic Salmon	2022 S0 2.5kg	Applecross (FS0500)

Results

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

The following bacteria were isolated:

- *Areomonas salmonicida* : F1 & F2 (Kidney)
- *Serratia liquefaciens* : F1 (Kidney), F1 & F2 (Gill)

From the tests conducted, we do not have evidence of resistance to amoxicillin, oxytetracycline, sulphamethoxazole/trimethoprim 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).

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), salmon gill poxvirus (SGPV), piscine reovirus (PRV) 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	19.36	29.88	29.78	29.95	POSITIVE
F2	18.99	26.64	26.43	26.65	POSITIVE

Neoparamoeba perurans (AGD)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	19.36	32.94	32.17	32.62	POSITIVE
F2	18.99	33.23	-	-	Negative

Histology: Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from 2 fish. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

Gill: Filament branchitis, moderate, multifocal (F1, F2), mainly observed at the filament tips. F2 also displayed tiny areas of necrosis. Free blood among gill filaments (F1 & F2).

Skin & Muscle: Degeneration of the white skeletal musculature, mild, multifocal (F2).

Heart: Marked eipcarditis and Gram-negative bacterial aggregates observed on the atrium chamber wall (F2). Areas of light H&E stain observed in the compact layer (F2).

Gut and pyloric caeca: Peritonitis, mild (F2).

Pancreas: Within the normal range.

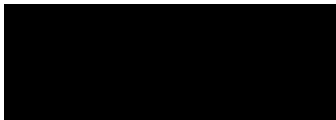
Liver: Hepatocellular necrosis, mild, multifocal (F1 & F2). Moderate, capsulitis (F2), some cuffing (F1). Mild, multifocal, hepatocellular vacuolation (macrovesicles) (F2).

Kidney: Foci of interstitial cell (haemopoietic) granuloma-like structures with few rod-shaped Gram negative bacetria (F1) and areas of interstitial cell (haemopoietic) necrosis (F2), mild, multifocal.

Spleen: Necrotising splenitis with Gram-negative rod-shaped bacteria, multifocal, mild (F3), few aggregates of Gram-negative rod-shaped bacteria in F2, F3, F4. F5 exhibited cuffing (F4).

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

Signed:

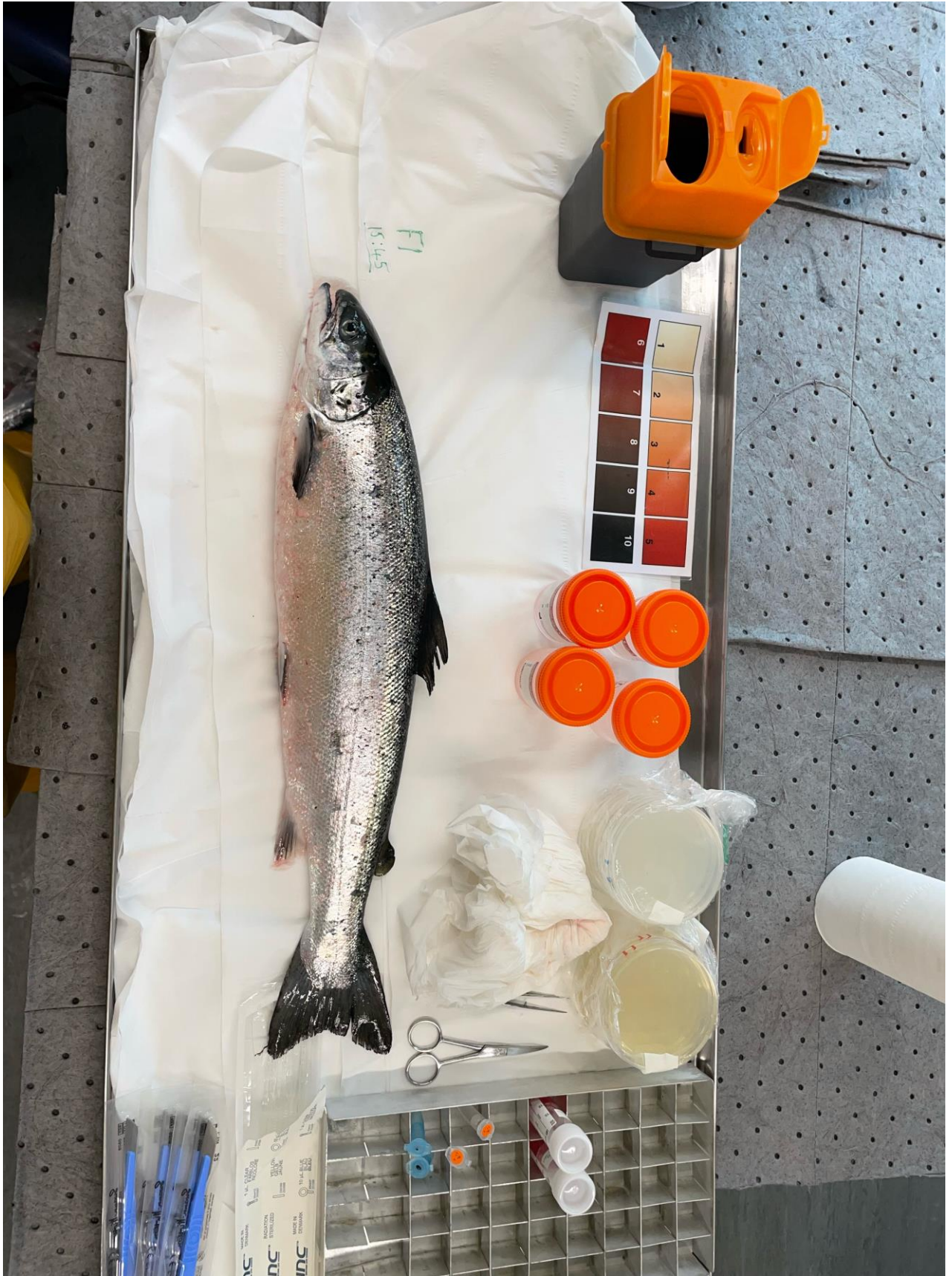


Date: 03/10/2023

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/Topics/marine/science)

AFH-2023-0463

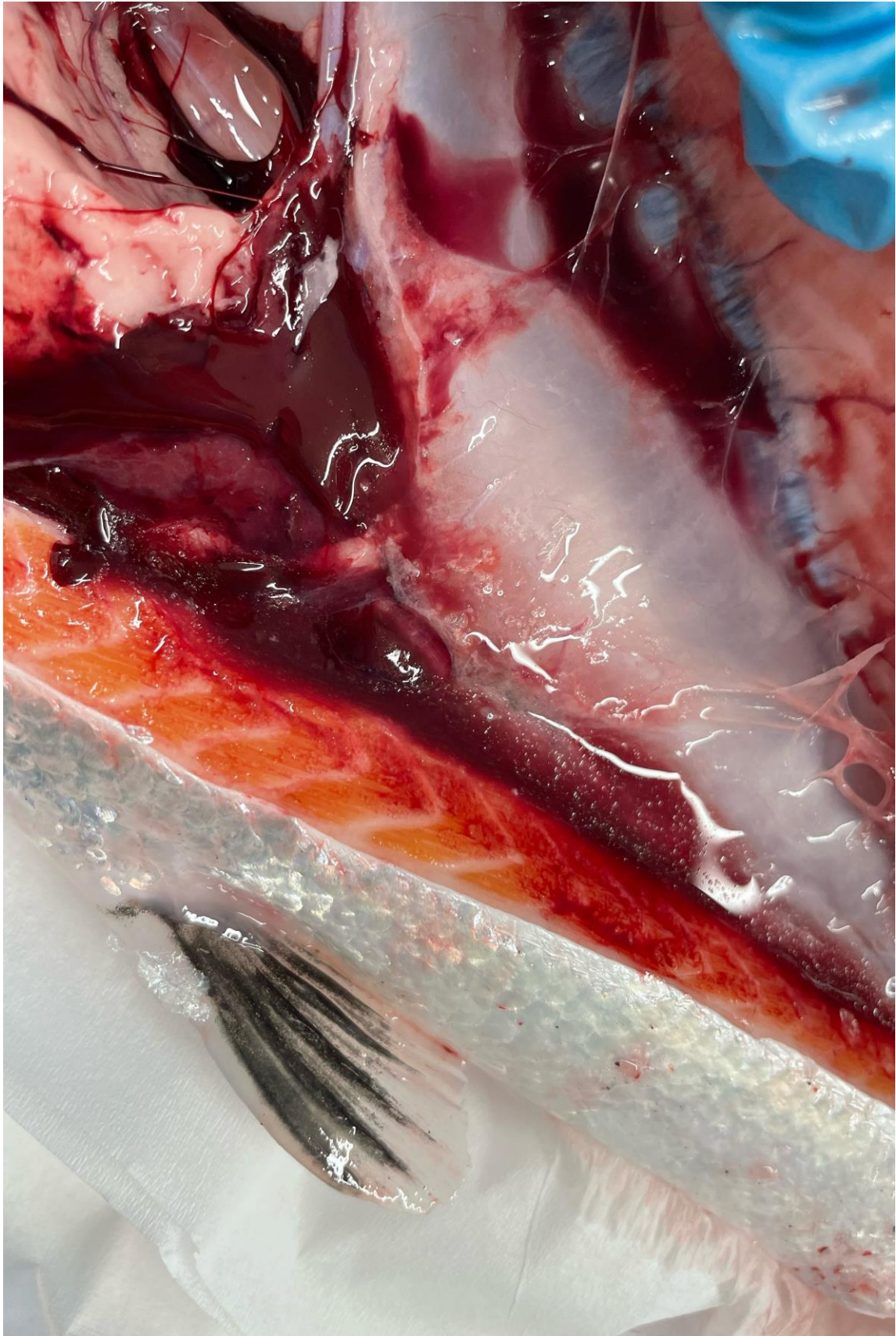














Case No: 2023-0465 Date of visit: 11/10/2023

Time spent on site: 3.5hrs Main Inspector: [Redacted]

Site No: FS0805 Site Name: Bagh Dail Nan Cean
Business No: FB0119 Business Name: Mowi Scotland Ltd

Case Types: 1 REP 2 VMD 3 DIA 4 [] 5 [] 6 []

Water Temp (°C): 13.38 Thermometer No: T309 FHI 045 completed N/A

Observations: Region: ST Water type: S CoGP MA: M-40

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:

Current fish on site moved on from Maclean's Nose: wk33. Previous cycle fish were harvested and site was fallowed out in wk 31. 13/08/2023

Stock origin of fish: Loch Lochy, Ireland. Transferred to site from Maclean's Nose.

Cleanerfish mortality 2023 (recent 4 weeks):

Wrasse; Wk39, 4.96%, 2275; Wk38, 2.61%, 1230; Wk37, 2.49%, 1205; Wk36, 1.30%, 488 (attributed to furunculosis)

Lumpfish culled following harvest of fish from previous cycle in Wk31.

2/08/2023 - culled out the lumpfish.

Health visits: more swabs taken on 05/10/2023, AGD, 2/10 positive. Health checks conducted every 2 weeks.

Movement of fish from MacLean's Nose: first two deliveries fish exhibited AGD. Pen 2 and 3 were experiencing higher levels of AGD. Gentle peroxide treatment in the well but stopped immediately as temperature was too high. Mortality in wk 33 corresponds to this treatment loss. Risk assessment in place (dated 11/08/2023) for transfer of fish from 13/08/2023 - inspected.

Site inspected on 11/10/2023 (7/8 stocked pens inspected) and two moribund fish removed for diagnostic sampling. F1 was observed to have many small, almost circular lesions on its flanks and operculum. F2 presented with very pale, grey gills. Due to weather, one pen was not inspected.

Pen 1 harvested out 11/10/2023. Plans to harvest pen 10 12/10/2023.

movement records inspected: some harvests conducted via deadhaul. Either shipped to Larne or Blar Mhor from Oban pier.

Case No: **2023-0465** Site No: **FS0805**

Date of Visit: **11/10/2023** 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	12	Facilities stocked	8	No facilities inspected	7
Species	SAL WRS				
Age group	2022 Q4	wild caught			
No Fish	250,000	43,500			
Mean Fish Wt	3.5kg	mix			
Next Fallow Date (Site)	End of November		Next Input Date (Site)	Start April 2024	
Recent (last 4 wks) disease problems?			Any escapes (since last visit)?	Y	
If yes, detail:	PRV-1, SRS, AGD				

Movement Records

1. Movement records available for inspection? **Y**

2. Date of last inspection: **15/03/2023**

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? **[REDACTED]**

Mortality Records

1. Mortality records available for inspection? **Y**

2. How are mortalities disposed of? **Other (detail)**

If other detail: **Taken to Kames Pier, ensiled and then taken to Barkip Biogas**

3. Mortality records complete and correctly entered? **Y**

4. Recent mortality (last 4 wks): **2023: Wk39, 1.78%,5764; Wk38, 1.43%,5490; Wk37,1.13%,4371; Wk36, 1.20%,4699 (mortalities attributed to HSMI and anaemia) ; cleanerfish mortality: see additional information**

5. Evidence of recent increased/atypical mortalities? **Y**

If yes, facility nos/no mortality per facility/no stock per facility/reason: **pen 1, 2 and 10 and 11 (anaemia and HSMI).**

6. Any other peaks in mortality during period checked? **Y**

If yes, detail: **Wk33, 10.28%, 17382 (medicinal loss, paramove, pen 2 and 3); Wk31, 1.77%, 414; Wk30, 3.79%,3493; Wk29, 2.05%, 4274; Wk28, 1.95%, 4135; Wk27, 1.85%, 4165 (attributed to PD)**

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. **Y**

Treatments and Medicines Records

1. Recent treatments (see comment)?	<input type="checkbox"/>	Y
If yes, detail: T.M.S		
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)?	<input type="checkbox"/>	T.M.S
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"/>	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). PRV-1, <i>Piscirickettsia salmonis</i> (4/7) 19.09.2023; CMS seen in larger fish.		

Records checked between:	15/03/2023-11/10/2023
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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	F1	F2										
Fish nos	1	2	3									
Pool Group	P1	P2										
Species	SAL	SAL	SAL									
Average weight	3.5kg	3.5kg	3.5kg									
Sex	N/A	N/A	N/A									
Water Type	SW	SW	SW									
Stock Details		MacLean's Nose (FS0599)	MacLean's Nose (FS0599)	MacLean's Nose (FS0599)								
	Stock Origin											
Facility No	10	11	10									

10/2023

Additional Sample Information:

2

Total Tests assigned

7

Case no: **2023-0465** Site No: **FS0805** Method of killing: **Percussive**
 Date of visit: **11/10/2023** Inspector(s): **[REDACTED]** Sheet Relevant: **Y**

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

Fish Number		1	2						
Time sampled after death (if > 45 minutes)		74mins	80mins						
External Signs									
Behaviour	Moribund	M	M						
	Lethargic	M	M						
	Hanging vertical								
	Spiralling								
	Flashing								
Body	Loss of equilibrium								
	Dark								
	Distended abdomen								
	Anorexic								
Opercula	Scale Oedema								
	Shortened								
Haemorrhaging	Flared								
	Throat								
	Ventrum	W	W						
Eyes	Base of fins								
	Elsewhere								
	Exophthalmic								
	Enophthalmic (sunken)								
Gills	Cataract								
	Haemorrhagic								
	Pale		S						
Lesions	Zoned	W	S						
	Necrotic		M						
	Flank	S							
Vent	Elsewhere								
	Inflamed								
Lice Load	Trailing faeces								
	Estimate numbers		30						
Internal Signs									
Ascites	Clear								
	Bloody		W						
Oedema	In tissues								
Heart	Pale/anaemic								
	Granulomas								
	Deformed	W							
Liver	Petechial haem								
	Gross haem								
	Tissue breakdown								
	Enlarged								
	Colour number(s)	4	3						
Pyloric caeca	Granulomas								
	Lesions								
	Petechial haem								
	Tubules mauve								
Spleen	Lack of fat								
	Enlarged								
Gut	Granulomas								
	No food present	S	S						
	Yellow pseudo-faeces	S	S						
	External haem								
Body wall	Internal haem								
	Haemorrhaging								
Swim bladder	Haemorrhaging								
	Fluid filled								
Kidney	Swollen								
	Grey								
	Granular								
	Liquefied								
General	Parasites present								
	Anaemia								

Case no:

Date of visit:

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

Fish Number																				
Time sampled after death (if > 45 minutes)																				
External Signs																				
Behaviour	Moribund																			
	Lethargic																			
	Hanging vertical																			
	Spiralling																			
	Flashing																			
Body	Loss of equilibrium																			
	Dark																			
	Distended abdomen																			
	Anorexic																			
Opercula	Scale Oedema																			
	Shortened																			
Haemorrhaging	Flared																			
	Throat																			
	Ventrum																			
	Base of fins																			
Eyes	Elsewhere																			
	Exophthalmic																			
	Enophthalmic (sunken)																			
	Cataract																			
Gills	Haemorrhagic																			
	Pale																			
	Zoned																			
Lesions	Necrotic																			
	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)																			
Pyloric caeca	Granulomas																			
	Lesions																			
	Petechial haem																			
	Tubules mauve																			
Spleen	Lack of fat																			
	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: FS0805
Case No: 2023-0465
Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology



Case No: **2023-0465** Date of visit: **11/10/2023**
 Site No: **FS0805** Inspector: **[REDACTED]**

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
AGD	2/2	17/10/2023		17/10/2023		07/11/2023		
SALP	0/2	17/10/2023		17/10/2023		07/11/2023		
VHSP	0/2	17/10/2023		17/10/2023		07/11/2023		
IHNP	0/2	17/10/2023		17/10/2023		07/11/2023		
IPNM	0/2	17/10/2023		17/10/2023		07/11/2023		
ISAQ	0/2	17/10/2023		17/10/2023		07/11/2023		
PNST	2/2	17/10/2023		17/10/2023		07/11/2023		
PISP	2/2	17/10/2023		17/10/2023		07/11/2023		
PMVP	0/2	17/10/2023		17/10/2023		07/11/2023		
PRVP	2/2	17/10/2023		17/10/2023		07/11/2023		
SPVP	2/2	17/10/2023		17/10/2023		07/11/2023		
PSFL	1/2	26/10/2023		26/10/2023		07/11/2023		
VSPE	1/2	26/10/2023		26/10/2023		07/11/2023		

Report Summary			
Case Type	Date	Insp	2 nd Insp
DIAG, REP	07/11/2023		
VMD	07/11/2023		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0119	DATE OF VISIT	11/10/2023
SITE No	FS0805	SITE NAME	Bagh Dail Nan Cean
CASE No	20230465	INSPECTOR	██████████

Section 1: Summary

The above site was inspected following a report of increased mortality. During the physical inspection, two moribund Atlantic salmon were removed for diagnostic sampling.

Histopathology examination revealed mixed and complex pathology. There was pathology consistent with salmonid rickettsial septicaemia (SRS), which was confirmed via qPCR in both fish testing positive for *Piscirickettsia salmonis*. Gills displayed multifocal, mild, hyperplastic lamellar branchitis associated with complex gill issues. Hepatocellular necrosis and very mild myocarditis were also observed.

Bacteriology results identified *Pseudomonas fluorescens* on plates taken from gill material in one fish. In addition, *Vibrio* sp. was identified. However, the level and purity of growth would not suggest that these bacteria would be implicated as a primary pathogen in the morbidity of the fish and are likely to be of environmental origin.

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 recent reports of increased mortality for a few weeks on site. During the site inspection, two moribund and lethargic fish were removed for sampling. Haemorrhaging was observed around the vents on both fish, whilst circular lesions were only observed on F1. Very pale zoned gills were seen on F2, with slight necrosis observed also. Thirty lice were counted on F2. Internally, F1 exhibited a slightly deformed/rounded heart, and no food was present in the gut expect for pseudofaeces. F2 was observed with bloody ascites and pseudofaeces was present, as well as a lack of food in the gut.

Samples

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

Fish number	Facility number	Species	Stage	Origin
1	10	Atlantic salmon	2022 Q4	Maclean's Nose (FS0599)
2	11	Atlantic salmon	2022 Q4	Maclean's Nose (FS0599)

Results

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

The following bacteria were isolated:

- *Pseudomonas fluorescens*: F2 (Gill)
- *Vibrio* sp.: F1 (Lesion)

Tissue samples 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	20.14	35.12	34.84	34.98	POSITIVE
F2	20.52	>40	>40	>40	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).

Piscine Reovirus (PRV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	17.55	35.63	35.13	36.75	POSITIVE
F2	17.71	35.65	34.74	35.72	POSITIVE

Salmon Gill Poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	20.78	34.12	33.64	33.73	POSITIVE
F2	21.49	33.92	34.36	33.96	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	20.78	27.87	27.93	27.86	POSITIVE
F2	21.49	31.58	31.18	31.53	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	20.78	30.11	30.07	30.33	POSITIVE
F2	21.49	37.64	36.10	35.50	POSITIVE

Histology: Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from two fish.

Histopathological examination revealed the following:

Gill: lamellar hyperplastic branchitis mild, multifocal (F1 & F2), F1 slightly more severe and chronic and F2 mainly at the gill filament tips. Lamellar telangiectasia with multifocal thrombosis and free blood among gill filaments (F1 & F2).

Skin & Muscle: Dermatitis with few intracellular round blue structures resembling bacteria (likely *Piscirickettsia* sp.), moderate, multifocal, observed in F1.

Heart: Small foci of cellular degeneration (F1) and inflammatory cells (F1). Few thrombi (F2).

Gut and pyloric caeca: Within the normal range.

Pancreas: Within the normal range.

Liver: Hepatocellular necrosis, random, mild, multifocal (F2). F1 displayed hepatocellular vacuolation (macrovesicles), mild, diffuse.

Kidney: Few renal tubules displaying hyaline droplets (F1).

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: 07/11/2023

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 \(www.gov.scot\)](http://www.gov.scot/Topics/marine/science)



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0119	DATE OF VISIT	11/10/2023
SITE No	FS0805	SITE NAME	Bagh Dail Nan Cean
CASE No	20230465	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:

Date: 07/11/2023

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/)

R20

Diagnostic case photos: 2023-0465



Figure 1 Overview photo of a) fish 1 and b) fish 2.

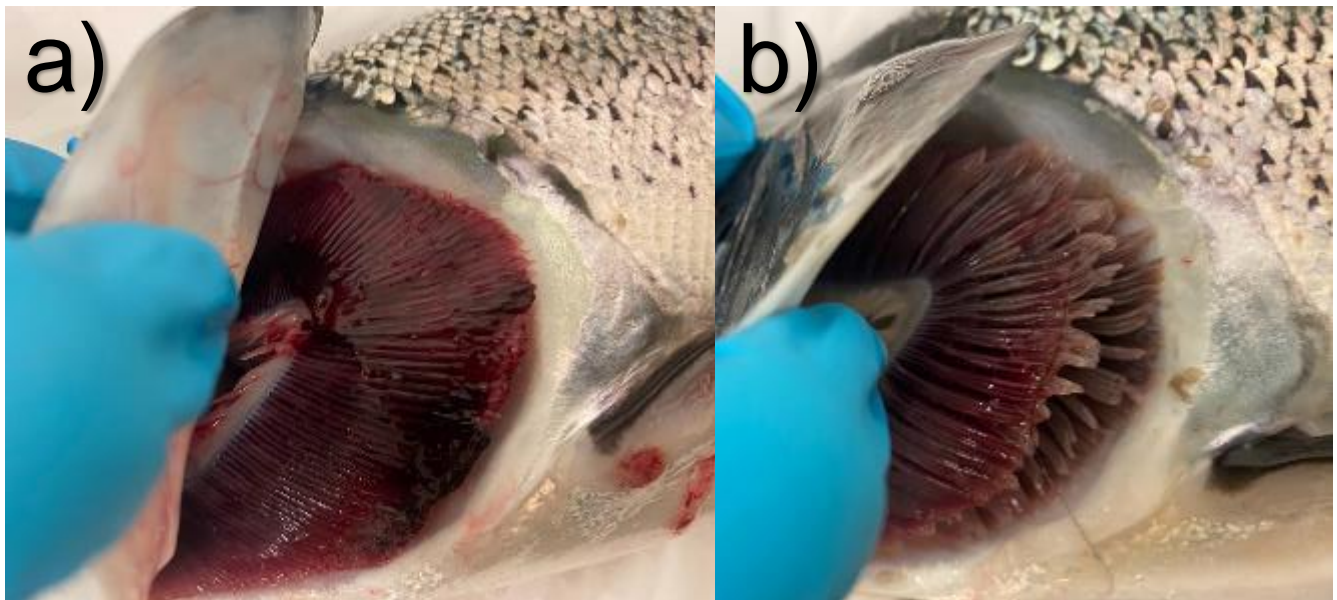


Figure 2 Photos of gills on a) fish 1 and b) fish 2.

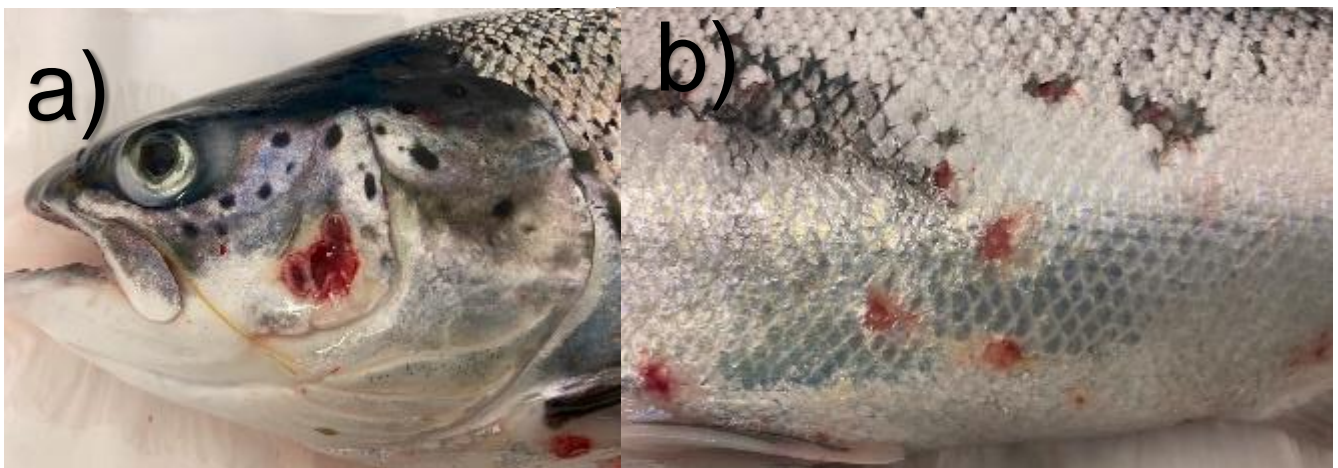


Figure 3 Picture of lesions observed on fish 1; a) lesion on head/operculum of fish 1 and b) small-rounded lesions on flanks of fish 1



Figure 4 Internal view of fish 1



Figure 5 Internal view of fish 2