

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: OR Water type: S CoGP MA: O-1

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:

Fish on site will not be harvested. The site is used for smolt production before fish get moved off around 2.5kgs to neighbouring sites for final on-growing and harvest.

Fish have been performing well so far with no significant health challenges. No medicinal treatments on this crop (with the exception of tricaine used for weekly sea lice counts); only FW baths combined with a flush have been completed on site and is reportedly resulting in 80-95% clearance.

Companies biologist will be visiting the site in wk32 to perform gill and lice checks along with water sampling.

Mortality events above reporting threshold:

Wk45 2022: 2,260 (1.15%), wk47: 5,390 (2.78%), Wk48: 3,712 (1.97%), Wk49: 2,892 (1.56%), Wk50: 10,289 (5.66%), Wk51: 2,426 (1.41%), Wk52: 2,607 (1.54%) - all attributed to poor gill health combined with seal ice treatments and early maturation. 2023 wk31 3% (13489) recorded as handling.

FMA is not followed synchronously on a single year class basis, however a risk assessment was available and was deemed acceptable at the time of inspection.

Mortalities for the last few weeks, wk35 796 (0.21%), wk 34 (723 (0.19%), wk 33 817 (0.22%), wk 32 794 (0.21%) attributed mainly to environmental, handling and transport and other.

Water temperature at 14.3 so REG only completed. Full inspection of the site conducted including completing checks for CNA. Stocks seemed in good general health, one dead and two runts noted across the site.

CNA paperwork and remote inspection completed by [REDACTED] with records checked up to 4/8/2023 but site inspection cancelled due to changing priorities. [REDACTED] completed on site CNA and inspected mortality, medicine and sea lice records from 4/8/2023 to 3/9/2023.

Case No: 2023-0351

Site No: FS1080

Date of Visit: 12/09/2023

Inspector(s):

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

Total No facilities	16, 80 metre circle pens	Facilities stocked	16	No facilities inspected
Species	SAL			
Age group	23 S1			
No Fish	372,804			
Mean Fish Wt	939g			
Next Fallow Date (Site)	Jan 24	Next Input Date (Site)	April 24	
Recent (last 4 wks) disease problems?		N	Any escapes (since last visit)?	
If yes, detail:				

Movement Records

1. Movement records available for inspection?
2. Date of last inspection:
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: transported in sealed mort bins Kirkwall Dounby, bulk carrier to Pelagia
3. Mortality records complete and correctly entered?
 4. Recent mortality (last 4 wks): see additional information
 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: See additional information.
7. Have increased (unexplained) mortalities been reported to vet or FHI?
- If yes, detail action:
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

1. Recent treatments (see comment)?

If yes, detail: TMS

If other, detail:

2. Medicines records available for inspection?

3. Are records complete and correctly entered?

4. Are fish in a withdrawal period?

5. If yes, what treatment(s)?

TMS

If other, detail:

6. Are medicines stored appropriately?

Biosecurity Records

1. Biosecurity records available for inspection?

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

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

4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected included and *how* and *when* that will be notified to Scottish Ministers?

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

6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?

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

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

If no, detail:

Results of Surveillance

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

2. If yes, are results available for inspection?

3. Any significant results?

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

Records checked between:

2/12/2020 - 3/09/2023

		Y
		Y
		Y
		Y
		Y
		Y
		Y
ted been		Y
s,		Y
on of		Y
ls held on		Y
		Y
		Y
		Y
		N

Case Number:	2023-0351	Site No:	FS1080	Insp:		
Date of Visit	12/09/2023	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: **2023-0351** Site No: **FS1080**
 Date of visit: **12/09/2023** Inspector(s): **[REDACTED]**

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
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ENHANCED CONTAINMENT INSPECTION (SEAWATER)

a. Enquiry relating to i) escape incidents and ii) contingency procedures

1.1. Have escape incidents or events ¹ been experienced on or in the vicinity of the site since the last MSS inspection? If yes answer 1.2-1.8:		N		Farm containment and escape response procedure available. All equipment checked daily, nets inspected monthly and moorings inspected annually.
1.2. Have appropriate reports been made to Scottish Government within 24 hours of discovery?	High		AAAH Regs ⁴ 31D,E	
1.3. Have these been reported to the SSPO ² and, where in existence, the local DSFB and fisheries trust?	Medium		CoGP 4.4.37, 5.4.17	
1.4. Were methods (if any) used to recover escapees? If yes give detail				
1.5 Was the decision to attempt to recapture and the method employed agreed with the local DSFB and FT	Low		CoGP 4.4.38, 5.4.18	
1.6. Was permission sought from Marine Scotland prior to recapture?	Medium		CoGP 4.4.38, 5.4.18	
1.7 Were the gill nets deployed in accordance with the permission issued by Marine Scotland?	Low		CoGP 4.4.38, 5.4.18	
1.8. In light of the escape event, has appropriate action been taken to prevent and minimise the risk of further escapes?	High			
1.9. Is there a site specific contingency plan in response to failures in containment, aimed at preventing escapes and recovering escaped fish?	High	Y	SSI, 2,9	

b(i). Inspection of records relating to equipment, facilities and the site

General records			CoGP: 4.4.9, 4.4.14, SSI 2,1			Nets were manufactured and supplied by Knox. Attestation was available for inspection. Grid and moorings manufactured and supplied by Gaelforce. Attestation and invoice available. Fusion marine manufactured and installed the cages. Attestation available.
2.1 With regard to each facility, net, screen and mooring at each site, a record should be maintained of:-			Facilities	Moorings	Nets	
a) The name of the manufacturer	Low	Y	Y	Y		
b) Any special adaptations	Low	Y	Y	Y		
c) The name of the supplier	Low	Y	Y	Y		
d) The date of purchase	Low	Y	Y	Y		
e) Each inspection including						

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
i) the name of the person conducting the inspection	Low	Y	Y	Knox service summaries available
ii) the date of each inspection	Medium	Y	Y	
iii) the place of each inspection	Low	Y	Y	
iv) the outcome of each inspection	High	Y	Y	
f) the date and result of each repair, equipment test and antifouling treatment carried out	High	Y	Y	Site also has access to mortality removal ROVs that are deployed twice per week.
2.2. In relation to each net a record of:				
i) The mesh size	Medium	Y	SSI, 2,2	Site plan in Aquacom
ii) The code which appears on the identification tag	Medium	Y		
iii) The place of use, storage and disposal	Medium	Y		
iv) The depth of water between the bottom of the net and the seabed as measured at the mean low water spring	Low	Y		
2.3. In relation to each facility a record of:				
i) The date of construction	Low	Y	SSI, 2,3	Net lengths recorded and cross-checked with admiralty charts.
ii) The material used in construction	Low	Y		
iii) Its dimensions	Low	Y		
2.4. In relation to each mooring a record of-			SSI, 2,4	Site plan details location and type of navigational marker.
i) The date of installation	Low	Y		
ii) The design and weight of the anchors	Low	Y		
iii) The length of the mooring ropes or chains	Low	Y		
2.5. A record of any navigation markers deployed at each site at which fish are farmed	Low	Y	SSI, 2,5	
2.6 In respect of sites at which fish are farmed in inland waters ³			SSI, 2,6	
a) The type, method of and date of construction of any flood prevention or flood defence measures in place	Low	N/A		
b) The date of and results of any tests conducted on any such measures	Low	N/A		
c) The date of any incident where the site was flood	Low	N/A		
d) The water course height during any such flood incident	Low	N/A		
2.7 A record of-			SSI, 2,7	
a) The date of any severe weather event which caused damage to any facility, net or mooring	Medium	Y	SSI, 2,11 (a)	Recorded in site diary.
b) Any action taken to rectify any such damage	High	Y	SSI, 2,11 (b)	Repair work completed by site staff would also be included in site diary and any remedial action i.e. divers called to site or net removed and returned to Knox for repair.
Pen and mooring systems				
2.8 Are there documented procedures maintained regarding the selection and installation of pens and moorings?	High	Y	CoGP 4.4.8, 4.4.13	Environmental survey, hydro graphic reports supplied to manufacturers to select equipment that is suitable for the conditions on site.

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
2.9 Can the site demonstrate evidence that the design specification of pens and moorings are suitable for purpose and correctly installed?	High	Y	CoGP 4.4.9, 4.4.14	All equipment on site was manufactured and supplied by industry experts based on the results of the environmental and hydro graphic survey results from the site. Fusion Marine manufactured and installed cages on site. Equipment installed by industry leaders. Any repair work is either completed by Cooke engineers or by equipment manufacturer.
2.10 Do pen systems meet the manufacturers guidelines?	High	Y	CoGP 4.4.10	
2.11 Are pen systems inspected and approved by suitably qualified / experienced person(s)?	High	Y	CoGP 4.4.11	
2.12 Is there evidence of the competence of personnel involved in the design, installation and maintenance of pen and mooring systems?	High	Y	CoGP 4.4.12, 4.4.15	
2.13 Are pen and mooring components inspected with a) a documented SOP b) a documented inspection plan based on a risk assessment	High	Y	CoGP 4.4.16	
2.14 Do all nets used on site meet industry standards?	High	Y	CoGP 4.4.17	Yes supplied by Knox following environmental surveys. Fish size recorded in fishtalk and mesh size recorded in aquacom. Stored out of direct sunlight when not in use, however rarely stored. Always in water or at Knox. Every fallow, so before each production cycle. Nets are sent back to Knox for servicing and repairs. Daily inspections by site staff and with regular ROV dives. Nets inspected by Knox before each cycle. Inspected annually by ROV Divers carry out small repairs. Larger repair works are completed by Knox.
2.15 Can the site demonstrate an awareness of the minimum fish size in relation to net size	High	Y	CoGP 4.4.19	
2.16 Does the net design, quality and standard of manufacture take into account the conditions that are likely to be experienced on site and include adequate safety margins?	High	Y	CoGP 4.4.20	
2.17 Are nets treated with a UV inhibitor?	Low	N	CoGP 4.4.21	
2.18 Are nets tested at a pre-determined frequency?	High	Y	CoGP 4.4.22	
2.19 Is the method of test procedure based upon the manufacturers advice?	High	Y	CoGP 4.4.22	
2.20 Are frequent net inspections conducted to look for damage?	High	Y	CoGP 4.4.23	
2.21 Are net inspection records maintained?	High	Y	CoGP 4.4.23	
2.22 Is the system by which nets are attached to the pen and weighted inspected frequently?	High	Y	CoGP 4.4.24	
2.23 Where damage to nets and/or associated fittings has occurred, or the potential for damage exists, has remedial action been taken?	High	Y	CoGP 4.4.25	
b(ii). Inspection of records relating to training				
3.1 Are training programmes and plans relevant to the various onsite activities documented?	High	Y	CoGP 7.1.8	Training records and SOPs available for various handling activities conducted on site. Training covers containment and escape response, crowding events, harvesting and boat handling etc. powerboat licence and day skipper tickets held by certain members of staff. Staff are trained in containment and escapes and SOPs available for handling activities.
3.2 Is there a satisfactory record of all training and qualifications for each person working at the site in relation to any boat operations? (This excludes well boat operations)	High	Y	SSI 2,6,a	
3.5 With respect to any transfer of or handling of fish is there a record of all training of each person working on site in relation to containment and prevention of escape of fish, and recovery of escaped fish?	High	Y	SSI 2,7,a	

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
b(iii). Inspection of records relating to procedures and risk assessments				
4.1 Are procedures which could increase the risk of fish escaping considered to be carefully planned and supervised to minimise risk?	High	Y	CoGP 4.4.29, 5.4.12	Site staff in containment and escapes, SOPs for various activities, RA available for site activities. SCMS workboat certificate available on Aquacom. List of work boats used at the site cross-examined with photos of the boats at dry dock showing propellers and guards (if installed). RA developed before each individual movement.
4.2 Before procedures are conducted on site, are the following in place:			CoGP 4.4.30, 5.4.13 SSI 2,7, b , SSI 2, 8, c	
a) a documented risk assessments	High	Y		
b) standard operating procedures	High	Y		
c) contingency plan	High	Y		
4.3 In relation to any boat operations at each site at which fish are farmed is there a record of				
-The type and size of each boat used for operations on the site	Low	Y	SSI 2,6,b	
- The type and size of any propeller guard fitted to each boat used on the site	Low	Y	SSI 2,6,c	
4.4 Does the site suffer from regular or heavy predation?		N		
4.5 Are there records of site specific risk assessments ascertaining the risk of predator attack?	Medium	Y	CoGP 4.4.26	
4.6 Are there risk assessments undertaken on a pre-determined frequency?	Low	Y	CoGP 4.4.26	
4.7 A record of any anti-predator measures undertaken at each site at which fish are farmed including:			SSI, 2,8,a	
The type and location of each net, fence and scarer deployed	Medium	Y		
- The use of lethal means by any person involved in operations on the site	Low	N/A	SSI, 2,8,b	
4.8 Where predator nets are deployed is the advice of Annex 7 considered?	Low	N/A	CoGP 4.4.27	
c. Inspection of site and site equipment				
5.1 Are there any obvious containment issues on the site?	High	N		
5.2 Is the net mesh size considered to be capable of containing all fish sizes present on site?	High	Y	CoGP 4.4.18	

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
5.3 Do nets carry numbered ID tags?	Low	Y	SSI 2,2 ii	
Look at a percentage of nets on site - Does the net location meet the inventory?	Low	Y		
5.4 Are nets stored away from direct sunlight?	Low	Y	CoGP 4.4.21	
5.6 Are appropriate measures in place to mitigate predation on site? (Provide detail if necessary)		Y		
5.7 Are boat operations conducted in such a manner which prevents damage to nets and pens?	High	Y	CoGP 4.4.28	
5.8 Is there a requirement for navigation markers to be deployed?	Low	Y	MSA ⁵ 2010 P4, S21	
5.9 If yes, has this been done in accordance with the necessary requirements?	Low	Y	MS Marine licence	
5.10 If Yes to 5.8 is there a record of any navigation markers deployed?	Low	Y	SSI 2,5	
d. Inspection of site specific procedures				
6.1 Are pen nets examined for holes, tears or damage prior to and during the stocking, moving or crowding of fish?	High	N/A	CoGP 4.4.31	No onsite procedures ongoing at time of inspection
6.2 If helicopter transfer of fish is conducted are receiving pen(s) properly prepared:-			CoGP 4.4.32	
a) nets should be secure	High	N/A		
b) pens should be marked with buoys clearly visible from the air	High	N/A		
c) radio contact between farm staff and helicopter crew should be maintained or where this is not possible, pens receiving fish should be manned	High	N/A	CoGP 4.4.33	
Consideration should be given to all other site procedures being undertaken during the visit with respect to containment and the risk of fish farm escapes				

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
Additional actions	Powers			Comments and advice given or action taken if necessary
e) Collection of samples If necessary collect samples. Indicate if samples have been taken and detail what those samples are and the purpose of their collection	Power granted under the Act – section 5 (3) (a)			
h) Enforcement Notice. If an enforcement notice has been issued then maintain a copy / duplicate and record detail Guidance on completing the Enforcement Notice	Power granted under the Act – Section 6 (2)			

1 An 'escape event' can be defined as any circumstances on or in the vicinity of a fish farm which are believed to have caused an escape, or which may have given rise to a significant risk of an escape of fish.

2 FHI interpretation – Informing the SSPO is only a requirement where the site belongs to an Authorised Production Business which is signed up to the CoGP.

3 being waters which do not form part of the sea or any creek, bay or estuary or of any river as far as far as the tide flows

4 The Aquatic Animal Health (Scotland) Regulations 2009 (as amended)

5 The Marine Scotland Act 2010

Case No:

2023-0351

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, 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?
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 available?
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 since 10/6/19? 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 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?
16. Do the sea lice levels observed on stocks reflect sea lice count data? If no please detail reasons.

Containment Inspection

1. Has the site experienced equipment damage due to predators in the current or previous production cycles?
2. Are measures in place to mitigate against the predation experienced on site? (Detail below)

If other, detail below:

3. Have escape incidents or events been experienced on or in the vicinity of the site since the last FHI inspection?

If Yes proceed with questions 4 – 9. If No skip to question 10

4. Have these been reported to Scottish Ministers?
5. Have these been reported to local DSFB forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
6. Have these been reported to the SSPO and local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
7. Were methods (if any) used to recover escapees? If yes give detail

8. If gill nets were deployed was this action agreed with local wild fish interests and was permission given by Scottish Ministers? (Detail below)

9. What action was taken to prevent and minimise the risk of further escapes? (Not covered in code but could be considered under satisfactory measures of the Act)

10. Is the site inspected as satisfactory with regards to containment? If no, please detail reason(s)

Site No:

and emamectin benzoate) as well as access to suitable biological and/or

ea (or equivalent)?

are inspected? (CoGP Annex 6)

above (from w/b 10/6/19) during the period that records are inspected?

and criteria for treatment or where *C. elongatus* is considered to have

arios during the escalation of a sea lice infestation?

Legal, CoGP – 4.4.38, 5.4.18)

Case No: 2023-0351

Site No: FS1080

Date of Visit: 12/09/2023

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?



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

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

Pool/Fish No													
Fish nos	1	2	3	4	5	6	7	8	9	10			
Pool Group													
Species	sal	sal	sal	sal	sal	sal	sal	sal	sal	sal			
Average weight	850g	850g	850g	850g	850g	850g	850g	850g	850g	850g			
Sex	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Water Type	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW			
Stock Details		Loch Garasdale	Loch Garasdale	Quoys	Quoys	Loch Garasdale	Loch Garasdale	Loch Garasdale	Loch Garasdale	Loch shin	Loch shin		
	Stock Origin												
Facility No	1	1	5	5	16	16	17	17	21	21			



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0095	DATE OF VISIT	12/09/2023
SITE No	FS1080	SITE NAME	Bay of Cleat (North)
CASE No	20230351	INSPECTOR	██████████

ENHANCED CONTAINMENT INSPECTION

An enhanced inspection to ascertain the risk of escape from the fish farm was conducted in accordance with the Aquaculture and Fisheries (Scotland) Act 2007.

The visit consisted of an inspection of facilities, records and the provision of advice.

a) Inspection of i) escape incidents and ii) contingency procedures

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

b)i) Inspection of records relating to equipment, facilities and the site

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

b)ii) Inspection of records relating to training

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

b)iii) Inspection of records relating to procedures and risk assessments

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

c) Inspection of site and site equipment

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

d) Inspection of site specific procedures

No site-specific procedures were observed during the inspection.

Further Action

The site meets the requirement of current Scottish industry best practice. No further recommendations are made, or further action required.

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

Signed:

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

Date: 21/9/2023

Fish Health Inspector

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



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0095	DATE OF VISIT	12/09/2023
SITE No	FS1080	SITE NAME	Bay of Cleat (North)
CASE No	20230351	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.

Due to the water temperature being above 14°C, an inspection to determine the presence of listed disease could not be completed as clinical signs may not be present at such temperatures, an inspection will be rescheduled at a later date.

Records

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

The site was also inspected in accordance with the Aquaculture and Fisheries (Scotland) Act 2007, as amended, with respect to section 3 regarding parasites (sea lice), section 4A regarding fish farm management agreements and statements and section 5 regarding containment and escapes.

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

An enhanced sea containment inspection was conducted. A separate report will be issued in due course.

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

Signed:



Date: 21/9/2023

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: 2023-0424 Date of visit: 07/09/2023

Time spent on site: 6 hours Main Inspector:

Site No: FS0413 Site Name: Camas Glas
Business No: FB0119 Business Name: Mowi Scotland Ltd

Case Types: 1 REP 2 DIA 3 4 5 6

Water Temp (°C): 14.1 Thermometer No: T172 FHI 045 completed

Observations: Region: HI Water type: S CoGP MA: M-34

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

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

Additional Case Information:

Inspection taking place following several mortality notifications since mid-July being over the reporting criteria. First mortality event reported for wk 28 at 1.01% (10,597 fish) and peaked at wk 33 at 5.24% (49,691 fish).

Recently mortality has reportedly been falling since wk 33. The mortality notification for wk 34 was down to 3.69% (33,209 fish).

Mortality has been attributed to multifactorial causes as PD, SAV, AGD, PGD, *Pasturella skyensis* and *Rickettsia* have all been identified on site. *Caligus* levels are reported to be rising at wk 30. *Rickettsia* being treated with florfenicol and is reported to be effective. A freshwater treatment has been carried out on 28/05 - 09/06 to deal with AGD and caligus. Another freshwater treatment was due to take place on the week of the inspection but has been postponed to reduce potential for physical damage following a successful antibiotic treatment

Pasteurella skyensis test positive from 07/08/2023. Fish vaccinated against this.

Antibiotics (florfenicol in-feed) used on site, finished on 22/08/2023 after a week long treatment.

Cage 2 mortality highest this summer (from Loch Ness). Loch Ness fish went to cages 2 and 6. Mortality in cage 6 is in line with other cages

Fish reportedly feeding well on week of inspection. Feeding has increased substantially since antibiotic treatment

At least one of the biologist team on site each week.

Fish from Loch Lochy and Loch Ness (both hatched in Loch Ailort)

Cages are 100m plastic circles

Background mortality is dealt with by ensiling. Due to increased mortality skips are being used currently. Two companies are used to dispose of increased mortality. One (J.A. MacDonald) takes mortality to Whiteshore Cockles and Dundas and the other (Billy Bowie) disposes of fish at Barkip and Dundas.

Peroxide treatment ended early on 11/08/23 as fish in cage 2 did not respond well to treatment and mortality increased. Water temperature at the time was about 15 degrees C.

Thermolicer treatment from 19/06 - 22/06 and 10/07 - 13/07 to deal with lice levels

Peroxide used on 17/7/23 and 11/07/23 both to treat for AGD

Alphamax treatment from 27/07 - 30/07 and 30/08/23 - 06/09/23 to treat rising *Caligus* levels

All lice treatments are reported to be successful.

Feed supply issues (caused by excessive heat where the feed was stored at the feed mill) meant that the fish ate less feed than planned for the 8 weeks before the inspection.

Farmed and wild wrasse on site.

Case No: Site No:

Date of Visit: Inspector(s):

Registration/Authorisation Details

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

2. Changes made to details?

Site Details (include cleaner fish for all sections)

Total No facilities	<input type="text" value="12"/>	Facilities stocked	<input type="text" value="12"/>	No facilities inspected	<input type="text" value="12"/>
Species	<input type="text" value="SAL"/>	<input type="text" value="WRS"/>			
Age group	<input type="text" value="Q4 23"/>	<input type="text" value="Varied"/>			
No Fish	<input type="text" value="840,346"/>	<input type="text" value="83,097"/>			
Mean Fish Wt	<input type="text" value="1.6kg"/>	<input type="text" value="Varied"/>			
Next Fallow Date (Site)	<input type="text" value="Spring 2024"/>		Next Input Date (Site)	<input type="text" value="Summer 2024"/>	
Recent (last 4 wks) disease problems?			<input type="text" value="Y"/>	Any escapes (since last visit)?	<input type="text" value="N"/>
If yes, detail:	<input type="text" value="See additional info"/>				

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: Florfenicol (in-feed) antibiotic treatment to treat bacterial issues diagnosed by Patogen		
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)?	Florfenicol	
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 increased (unexplained) 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 how and when 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). See additional comments		

Records checked between:	22/02/2023 - 07/09/2023
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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	F3	F4	F5							
Fish nos	1	2	3	4	5							
Pool Group												
Species	SAL	SAL	SAL	SAL	SAL							
Average weight	1.8000	1.6000	1.5000	1.8000	2.1000							
Sex	N/A	N/A	N/A	N/A	N/A							
Water Type	SW	SW	SW	SW	SW							
Stock Details		Loch Ness	Loch Ness	Loch Ness	Loch Lochy	Loch Lochy						
	Stock Origin											
Facility No	2	2	2	12	12							

Case no: 2023-0424

Site No: FS0413

Method of killing:

Date of visit: 07/09/2023

Inspector(s):

Sheet Relevant: Y

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

Fish Number		F1	F2	F3	F4	F5				
Time sampled after death (if > 45 minutes)		1 hour	1 hour	1 hour	1 hour	1 hour				
External Signs										
Behaviour	Moribund	S	S	S	S	S				
	Lethargic	S	S	S	S	S				
	Hanging vertical	S			S					
	Spiralling									
	Flashing									
	Loss of equilibrium									
Body	Dark				W					
	Distended abdomen									
	Anorexic		M	S		W				
	Scale Oedema									
Opercula	Shortened									
	Flared									
Haemorrhaging	Throat									
	Ventrum									
	Base of fins									
	Elsewhere									
Eyes	Exophthalmic									
	Enophthalmic (sunken)									
	Cataract									
	Haemorrhagic					M				
Gills	Pale	M	M	M	M	S				
	Zoned									
	Necrotic									
Lesions	Flank			S						
	Elsewhere									
Vent	Inflamed	W	W	W						
	Trailing faeces									
Lice Load	Estimate numbers		0	0	0	0	0			
Internal Signs										
Ascites	Clear	M								
	Bloody									
Oedema	In tissues									
Heart	Pale/anaemic									
	Granulomas									
	Deformed									
Liver	Petechial haem									
	Gross haem									
	Tissue breakdown									
	Enlarged									
	Colour number(s)		4	4	4	4	4			
	Granulomas									
	Lesions									
Pyloric caeca	Petechial haem									
	Tubules mauve									
	Lack of fat	W	W	S	W	W				
Spleen	Enlarged	W								
	Granulomas									
Gut	No food present	S	S	S	S	S				
	Yellow pseudo-faeces	S	S	S	S	S				
	External haem									
	Internal haem									
Body wall	Haemorrhaging									
Swim bladder	Haemorrhaging									
	Fluid filled									
Kidney	Swollen									
	Grey									
	Granular									
	Liquefied									
General	Parasites present									
	Anaemia									

Additional comments:

F4 had a slightly swollen heart

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0119	DATE OF VISIT	07/09/2023
SITE No	FS0413	SITE NAME	Camas Glas
CASE No	20230424	INSPECTOR	██████████

Section 1: Summary

The above site was visited following notification from the business that mortality had occurred on site over the notifiable threshold.

Upon inspection, moribund fish were observed exhibiting behaviour and gross pathology associated with disease. A necropsy was performed and samples taken for laboratory analysis.

Histopathological examination revealed that amoebic gill disease (AGD) was present (confirmed by qPCR). Fish also displayed evidence of salmon pancreatic diseases. One fish also displayed ulcerative dermatitis with the presence of Gram-negative rod-shaped bacteria which may impact on the osmotic balance. Chronic, multifocal splenitis was also observed (potentially associated with bacterial infection). Some round structures resembling bacteria (likely *Piscirickettsia* sp.) were also observed in one fish.

The following were also identified using real-time PCR (qPCR):

- Salmon gill poxvirus (SGPV)
- Salmonid alphavirus (SAV)
- Piscine reovirus (PRV)
- *Neoparamoeba perurans* (AGD)
- *Paranucleospora theridion*

Pseudomonas fluorescens was identified on plates taken from gill material of 5/5 fish and lesion material of 1/1 fish. The level of growth could not be determined due to condensation run, however the prevalence would indicate a potential risk to a stressed fish population.

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 above site was visited following notification from the business that mortality had occurred on site over the notifiable threshold. The first notification of the cycle was from week 28 (10/07/23 – 16/07/23) at 1.01% and peaked during week 33 (14/08/23 – 20/08/23) at 5.24%. This mortality had fallen to 1.6% the week prior to the inspection (week 35).

Piscirickettsia was diagnosed by the biologist for the business before the inspection. A week long in-feed treatment using the antibiotic florfenicol was first administered on 16/08/2023.

During the inspection several moribund fish were observed on the site. These were all lethargic and fish 1 and 4 were also hanging vertically in the water column. Fish 4 had a darkened abdomen, while fish 2, 3 and 5 were all anorexic. All fish had pale gills, most notably fish 5. The vent of fish 1, 2 and 3 were slightly inflamed. Fish 5 had a haemorrhagic eye and fish 3 had a lesion on the flank.

Internally, the body cavity of fish 1 contained clear ascites and a slightly enlarged spleen. The heart of fish 4 was slightly swollen. All fish exhibited a lack of fat around the pyloric caeca. The hind gut of all fish contained yellow pseudo-faeces and no food.

Samples

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

Fish number	Facility number	Species	Stage	Origin
F1 – F3	2	Atlantic salmon (<i>Salmo salar</i>)	2023 Q4 (~1.6kg)	Loch Ness
F4 and F5	12	Atlantic salmon (<i>Salmo salar</i>)	2023 Q4 (~1.9kg)	Loch Lochy

Results

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

The following bacteria were isolated;

- *Vibrio* sp. (isolates A and B) kidney F1-F4, lesion F3
- *Pseudomonas fluorescens* gill F1-F5, lesion F3

Vibrio sp. was identified on plates taken from kidney material of 4/5 fish and lesion material of 1/1 fish. The level and purity of growth would not suggest this bacterium would be present as a primary source of morbidity overall, however, the level observed on lesion material of fish 3 would suggest it would be the primary source of this lesion.

A second *Vibrio* sp. was identified on plates taken from kidney material of 4/5 fish and lesion material of 1/1 fish. The level and purity of growth would not suggest this bacterium would be present as a primary source of morbidity.

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

Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	19.21	28.43	28.46	28.57	POSITIVE
F2	19.33	26.67	26.82	26.74	POSITIVE
F3	18.58	27.97	27.70	27.98	POSITIVE
F4	19.54	27.51	27.46	27.50	POSITIVE
F5	-	-	-	-	Negative

Salmonid alphavirus (SAV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	17.13	30.20	30.08	30.06	POSITIVE
F2	17.63	24.98	25.20	25.09	POSITIVE
F3	-	-	-	-	Negative
F4	-	-	-	-	Negative
F5	18.60	35.18	35.13	36.90	POSITIVE

Piscine reovirus (PRV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F2	17.30	30.84	31.09	30.95	POSITIVE

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

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

Amoebic gill disease (*Neoparamoeba perurans*) (AGD)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	19.21	29.45	29.28	29.37	POSITIVE
F2	19.33	27.00	26.99	27.03	POSITIVE
F3	18.58	27.78	27.48	27.61	POSITIVE
F4	19.54	28.79	28.89	28.86	POSITIVE
F5	18.79	31.94	32.18	32.71	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	19.21	29.58	29.71	29.58	POSITIVE
F2	19.33	26.84	26.58	27.03	POSITIVE
F3	18.58	26.79	26.67	26.82	POSITIVE
F4	19.54	30.97	31.24	31.29	POSITIVE
F5	18.79	25.89	25.90	25.89	POSITIVE

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

Histopathological examination revealed the following:

R09

UKAS accredited testing laboratory No. 1964

Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB

Tel - 0131 244 3498 Fax - 0131 244 0944 Email - ms.fishhealth@gov.scot

Website - www.gov.scot/Topics/marine/science

Gill: Gill autolysis hindered the reading of all fish. F1 displayed minor lamellar hyperplasia with few amoeboid cells resembling *Neoparamoeba perurans*. Few aneurysmal dilation/telangiectasia observed in F4.

Skin & Muscle: Moderated myositis observed in skeletal red muscle, mainly observed at the area close to the white muscle (F2). Bacterial ulcerative dermatitis (F3).

Heart: Myocarditis, mild, multifocal to diffuse (F1, F2, F3, F4) and mild, multifocal, peritonitis (F1, F2, F3, F4).

Gut and pyloric caeca: Marked, diffuse cell sloughing (potentially associated with post-mortem artefact). Absence of adipose tissues observed in F3 and some peritonitis observed in F3.

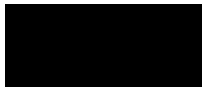
Pancreas: Areas of absence of acinar pancreatic tissue (F2).

Liver: Within the normal range.

Kidney: Interstitial cell (haemopoietic) necrosis, mild, multifocal (F3, F5), increase numbers of melanomacrophage aggregates (F5), hyaline droplets observed in few renal tubules (F3).

Spleen: Granulomatous infiltration, mild, multifocal, observed in F3. F3 also displayed some intracellular round structures resembling bacteria (likely *Piscirickettsia* sp.).

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



Image 1: Fish 1 -5

Case No: 2023-0428 Date of visit: 11/09/2023

Time spent on site: 2 Hours Main Inspector:

Site No: FIS0123 Site Name: Kinross Trout Fishery
Business No: FIB0110 Business Name: Kinross Trout Fishery

Case Types: 1 REG 2 3 4 5 6

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

Observations: Region: TA Water type: F CoGP MA

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

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

Additional Case Information:

Site inspection conducted by [REDACTED] and [REDACTED].

The fishery was inspected following a report of non - native fish species being held at the site and to update some outdated information for the fishery's registration details.

Kinross consists of 3 fly fishing only ponds and one bait point. The fishery is stocked with Rainbow, Golden, Blue and Brown trout sourced from 4 suppliers within Scotland. West Mill, College Mill, Northern Trout and Ae Fishery.

The site has been subject to high water temperatures in recent weeks and the fishing has been slow due to lethargy in the stocks due to the warm weather. No reports of increased mortality has been observed by site staff in recent years. From an inspection of the sites fishery ponds, a few fish were observed cruising close to the banks, fish appeared healthy with no clinical signs of disease observed. One fish was also inspected which had been caught by an angler, prior to release. No issues were observed and no evidence of stocking non-native species was observed.

Fishery registration details were checked and have since been updated.



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FIB0110	DATE OF VISIT	11/09/2023
SITE No	FIS0123	SITE NAME	Kinross Trout Fishery
CASE No	20230428	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.

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.

The information required for the registration of a put and take fishery regarding this site was verified and where necessary updated.

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

Signed:

[REDACTED]

Date: 09/10/2023

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/Topics/marine/science)

Case No: 2023-0429 Date of visit: 11/09/2023

Time spent on site: 1 hour Main Inspector:

Site No: FIS0629 Site Name: Hopetoun Fishery
Business No: FIB0472 Business Name: Hopetoun Fishery

Case Types: 1 REG 2 3 4 5 6

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

Observations: Region: LO Water type: F CoGP MA

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

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

Additional Case Information:

Site inspection conducted by [REDACTED] and [REDACTED].

The site was inspected following reports of non native fish species and to update fishery registration details.

Hopetoun fishery is a small, deep water created from an old disused quarry. The fishery is stocked solely with Rainbow and Brown trout. There are some pike held within the water however these were not introduced by the current owners.

The fishery in recent years has been subject to some sever aglae blooms in the summer months, the site have treated the water with DYOFIX which has dyed the water a deep blue colour. DYOFIX is a licenced product and the site have obtained their licence for use from SEPA which appears to have worked well to reduce blooms at the fishery.

The fishery has a small fish holding facility connected to the main fishery pond however this is due to be removed.

During the inspection of the site no clinical signs of disease were observed.

Fishery registration details were checked and have since been updated.



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FIB0472	DATE OF VISIT	11/09/2023
SITE No	FIS0629	SITE NAME	Hopetoun Fishery
CASE No	20230429	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.

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.

The information required for the registration of a put and take fishery regarding this site was verified and where necessary updated.

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

Signed:

[REDACTED]

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

Case No: 2023-0430 Date of visit: 12/09/2023

Time spent on site: 2 Hours Main Inspector:

Site No: FIS0797 Site Name: Avon Trout Fishery
Business No: FIB0599 Business Name: Avon Trout Fishery

Case Types: 1 REG 2 3 4 5 6

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

Observations: Region: ST Water type: F CoGP MA

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

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

Additional Case Information:

Site inspection conducted by [REDACTED] & [REDACTED].

The fishery was inspected following a report of non - native fish species being held at the site and to update some outdated information for the fishery's registration details.

Avon has two stocked fishery ponds, a bait fishing pond and a fly fishing pond. Rainbow, brown and tiger trout are stocked in both ponds and a wild population of roach are present in both ponds. During the physical inspection of the site, fish were observed being caught by anglers and also observed swimming close to the margins of the ponds. Fish looked healthy and fully finned. No clinical signs of disease were observed.

Fishery registration details were checked and have since been updated.



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FIB0599	DATE OF VISIT	12/09/2023
SITE No	FIS0797	SITE NAME	Avon Trout Fishery
CASE No	20230430	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.

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.

The information required for the registration of a put and take fishery regarding this site was verified and where necessary updated.

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)

Case No: 2023-0432 Date of visit: 13/09/2023

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

Site No: FIS0750 Site Name: Black Loch Fishery
Business No: FIB0564 Business Name: Black Loch Fishery

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

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

Observations: Region: CE Water type: F CoGP MA

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

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

Additional Case Information:

Site inspection conducted by [REDACTED] and [REDACTED].

The site was inspected following reports of non native fish species and to update fishery registration details.

Black loch fishery is a large put and take fishery at 109hec. The water open to the public for fishing and watersports. The lake is stocked with Rainbow trout and has wild populations of pike, perch and roach. Due to the size of the water and the weather at the time of inspection the stock could not be successful inspected for any clinical signs of disease. Staff and anglers have not reported any incidences of sick or diseased fish within the water.

Fishery registration details were checked and have since been updated.



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FIB0564	DATE OF VISIT	13/09/2023
SITE No	FIS0750	SITE NAME	Black Loch Fishery
CASE No	20230432	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.

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.

The information required for the registration of a put and take fishery regarding this site was verified and where necessary updated.

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

Signed:

[REDACTED]

Date: 06/10/2023

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/Topics/marine/science)

Case No: 2023-0433 Date of visit: 13/09/2023

Time spent on site: 2 Hours Main Inspector:

Site No: FIS0342 Site Name: Morton Trout Fishery
Business No: FIB0305 Business Name: Morton Clay Targets & Fishery

Case Types: 1 REG 2 3 4 5 6

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

Observations: Region: LO Water type: F CoGP MA

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

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

Additional Case Information:

Site inspection conducted by [REDACTED] and [REDACTED].

The site was inspected following reports of non native fish species and to update fishery registration details.

Morton trout fishery has just been reopened following a change of site management in March 2023. The site is stocked with Rainbow trout, blue trout and brown trout. The loch also has a small wild population of brown trout present. During the inspection of the loch, a few fish were observed cruising in the shallows near the banks, fish appeared to be in good condition. The site have not had any health issues or noticed any increased mortality on site since the changover in management.

Fishery registration details were checked and have since been updated.



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FIB0305	DATE OF VISIT	13/09/2023
SITE No	FIS0342	SITE NAME	Morton Trout Fishery
CASE No	20230433	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.

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.

The information required for the registration of a put and take fishery regarding this site was verified and where necessary updated.

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

Case No: 2023-0434 Date of visit: 13/09/2023

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

Site No: FIS0084 Site Name: Selmmuir Fishery
Business No: FIB0079 Business Name: Selmwood Coarse and Carp Fishery

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

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

Observations: Region: LO Water type: F CoGP MA

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

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

N/a

Additional Case Information:

Site inspection conducted by [REDACTED] & [REDACTED]. Paperwork completed by [REDACTED].

The site was inspected in order to gather further information regarding a potential transfer of common carp to the fishery and to investigate a report of non - native fish species at the fishery.

Selmmuir fishery has been in operation for the last 25 years and under its current management since 2010. The fishery was run as a put and take trout fishery up until 2016. Since then the fishery has been transformed into coarse and carp fishery, offering catch and release angling to its private, syndicate members. The fishery has stocked a total of 150 carp into its waters, fish initially went in at around 6- 8lb, it is believed that these fish have now grown to be between 14 - 32lb. The site is stocked with common carp species Koi and mirror, green tench and golden orfe. The fishery also holds wild populations of roach, perch and brown trout.

During the inspection of the sites main fishery pond a few golden orfe were observed cruising close to the banks, visibility was poor however due to the high silt quantity in the water. No clinical signs of disease were observed.

The fishery used to have some large glass tanks held onsite for on growing 8 ornamental diamond back sturgeon, these fish were purchased as an online sale sourced from England. 8 sturgeon were kept in these tanks and ongrown prior to being sold and moved back to England following an online sale as ornamental fish. The fishery manager recently moved the last fish off site due to it outgrowing the tank facilities onsite to a nearby half acre pond, which is owned by a neighbouring land owner. Upon inspection of this pond the sturgeon was not observed, however approximately 20 small koi carp and one ghost carp was observed in this water. No clinical signs of disease were observed. Details of this observation are to be passed to the freshwater licencing department in Pitlochry for further investigation.

The fishery is currently planning on arranging a transfer of 47 common carp from Edinburgh zoo. The Zoo have held these fish in isolation within a large tank within their chimpanzee facility. The fish are thought to be of an average weight of 20 lb and 17 years old. The zoo have held this stock for the past 15 years. Work is currently ongoing to ascertain the initial source of these fish to the zoo in order to clarify the health status of these animals. Edinburgh zoo have been contacted and paperwork has been provided in order for them to register as an Aquaculture Production Business before any movement can take place. Following a successful application from the zoo, the fishery plans to hire an independent fishery management team to capture and transport the carp to Selmmuir in the near future.

Fishery registration details were checked and have now been updated.



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No FIB0079
SITE No FIS0084
CASE No 20230434

DATE OF VISIT 13/09/2023
SITE NAME Selmmuir Fishery
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.

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.

The information required for the registration of a put and take fishery regarding this site was verified and where necessary updated.

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

Case No: 2023-0435 Date of visit: 14/09/2023

Time spent on site: 2 Hours Main Inspector:

Site No: FIS0933 Site Name: Drumtassie Fishery and Coarse Fishery
Business No: FIB0727 Business Name: Drumtassie Fishery

Case Types: 1 STI 2 3 4 5 6

Water Temp (°C): 16.07 Thermometer No: T309 FHI 045 completed N/A

Observations: Region: LO Water type: F CoGP MA

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

Additional Case Information:

Site inspected by [REDACTED] and [REDACTED].

The fishery was inspected following a previous report of a suspicion of KHV in some of the stocks held at Drumtassie. The delay in follow up being due to waiting for the water temperature to be optimal and the coarse fishery having been closed due to a breach of the water main which traverses the site. The FHI previously visited the site in January of this year in response to the report, however the site could not be inspected for clinical signs as the water temperature was below 16oC.

Upon inspection of the Drumtassie fishery, no clinical signs of disease were observed. Inspectors observed an angler catching a juvenile mirror carp in one of the coarse fishery ponds during the time of inspection which appeared healthy and in good condition. The water temperature on site at the time of inspection was 16.07oC.

Drumtassie consists of a trout fishery site and a separate coarse fishery site. The trout fishery has three fishery ponds consisting of two fly fishing ponds and one bait fishing pond. The site also has a small fish holding pond which was stocked at the time of inspection. This pond is used for ongrowing stock prior to being transferred into the main fishing ponds. Rainbow trout, Golden trout and Tiger trout were observed closely within the sites holding pond, fish were observed responding positively to hand feeding by site management with no clinical signs of disease observed. The coarse fishery is positioned a short drive from the trout ponds and consists of three coarse fishing ponds. Coarse fish stocks were said to have been obtained from England and transferred by the fishery owners.

Site and business details have been updated.



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FIB0727	DATE OF VISIT	14/09/2023
SITE No	FIS0933	SITE NAME	Drumtassie Fishery and Coarse Fishery
CASE No	20230435	INSPECTOR	[REDACTED]

Statutory Inspection

The above site was inspected due to receipt of information where there was a suspicion of the presence of koi herpes virus (KHV).

All epidemiological units were inspected. No clinical signs associated with KHV were observed.

If clinical signs of KHV are observed on the site, the Inspectorate must be informed immediately.

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

The information required for the registration of a put and take fishery regarding this site was verified and where necessary updated.

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

Signed:

Date: 09/10/2023

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: HI Water type: S CoGP MA M-26

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 visited following the report of a mortality event on site by the operator business

Aeration present on site and has been running since April, will run until Nov. Looking to install permanent water circulation system

Solmaris corona (plankton) identified and suspected to have caused mortality. Reportedly identified at Greshornish. Fish moved off site due to this species of jellyfish about 2-3 months before day of inspection.

Mortality was reportedly low up until the event. Cage 2 was slightly higher than usual.

Mortality was on the way up in cage 2. Large scale mortality observed on Monday 28th August in all cages. Cameras discovered the morts at the bottom of the cages.

Bakkaness vessel bought onto site (mortality processing vessel). Work boats and well boats all used on the site. Up to ten vessels present at any site, up to 50-60 staff involved (usually 7 staff).

Uplifts used to remove fish. These discharge into nets and then lifted into mortality tubs.

All morts processed on the Bakkaness. Morts macerated and then ensiled on boat.

wk 30: 0.21%, 1,215 fish, wk 31: 0.21%, 1,193 fish, wk 32: 0.23%, 1,294 fish, wk 33: 0.34%, 1,112 fish, wk 34: 0.45%, 2,562 fish (increase in mortality was due to cage 2, due to gill issues), wk 35: 31.14% 175,115 fish, wk 36: 3.1% 12,001 fish, wk 37 morts: 2.02%, 7,582 fish

Bakkaness vessel deck surrounded by steel "gunnel" to act as a bund to stop any spillage entering environment. Another drop bund around mort chute.

Vaccinations: Aquavac, PD3, Ridgeway ERM (dip 1 and 2), Alpha-ject micro 1 and 6.

Outer morts:

wk 35 morts: 3.34%, 20,188 fish

wk 34 morts: 0.23%, 1,412 fish

Feeding reportedly at 80% (approx.) of expected. It was at 100% before event.

Site staff measure water quality every morning. They measure water temp, plankton, secchi depth, oxygen

Head biologist visits every week due to the issue. Visit frequency is usually less than this during routine times.

Fish on both farms from Stockinfiskur. Fish at Portree from Gravir, Portree outer fish from West Strome

Portree outer mortality has returned to normal after slightly increase. Portree mortality still slightly elevated but reduced greatly. FW treatment conducted in conjunction with FLS treatment conducted wk 35 and start of wk 36. This was an attempt to flush gills and, as sea lice on site, to flush sea lice.

FW and FLS treatment planned for wk 39.

Lice numbers under control on site at 0.8 adult females per fish.

When fish are transported the mort tubs reportedly are all lidded. No boats are moved whilst mort tubs do not have lids on.

Lids must be removed prior to lifting (due to lid attachment method) and prior to emptying.

Bakkaness vessel (with 900 tonne capacity) transports ensiled waste to Ferguson transport on Kishorn pier taken to Fairlie and Dundas chemicals via tankers.

Cage 1 empty on 20/09/2023 and cage 2 empty on 17/09/2023. Harvested and transported off site live

Site biologist on site regularly to help site staff identify plankton species. If any plankton species cannot be identified, a photo is taken and sent away to be identified.

An APHA officer accompanied the FHI inspector on site. An RSPCA officer also attended the site the same day.

Case No: **2023-0437** Site No: **FS0708**
 Date of Visit: **14/09/2023** 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	10	Facilities stocked	8	No facilities inspected	10
Species	SAL				
Age group	Q3 2022				
No Fish	367,683				
Mean Fish Wt	2.19kg				
Next Fallow Date (Site)	June 2024	Next Input Date (Site)	Sept - Oct 2024		
Recent (last 4 wks) disease problems?		Y	Any escapes (since last visit)?		N
If yes, detail:	See additional info				

Movement Records

- 1. Movement records available for inspection? **Y**
- 2. Date of last inspection: **02/08/2023**
- 3. Are records complete and correctly entered? **N/A**
- 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/A**
- 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? **Whole fish - Dundas Chemicals**
- If other detail: **Whole fish taken to Dundas chemicals for routine mortality. For recent mortality event ensiled fish taken to Fairlie and Dundas**
- 3. Mortality records complete and correctly entered? **Y**
- 4. Recent mortality (last 4 wks): **See additional info**
- 5. Evidence of recent increased/atypical mortalities? **Y**
- If yes, facility nos/no mortality per facility/no stock per facility/reason: **See additional info**
- 6. Any other peaks in mortality during period checked? **N**
- If yes, detail: **[REDACTED]**
- 7. Have increased (unexplained) mortalities been reported to vet or FHI? **Y**
- If yes, detail action: **Vet and biologist on site more frequently than normal**
- 8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet. **Y**

Treatments and Medicines Records

1. Recent treatments (see comment)? Y

If yes, detail:

If other, detail:

2. Medicines records available for inspection? Y

3. Are records complete and correctly entered? Y

4. Are fish in a withdrawal period? N

5. If yes, what treatment(s)?

If other, detail:

6. Are medicines stored appropriately? Y

Biosecurity Records

1. Biosecurity records available for inspection? Y

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

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

4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and *how* and *when* that will be notified to Scottish Ministers? Y

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

6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)? Y

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

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

If no, detail:

Results of Surveillance

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

2. If yes, are results available for inspection? Y

3. Any significant results? Y

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

Records checked between:

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

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

Pool/Fish No	F1	F2	F3	F4	F5							
Fish nos	1	2	3	4	5							
Pool Group												
Species	SAL	SAL	SAL	SAL	SAL							
Average weight	2.0000	2.0000	1.5000	1.5000	1.0000							
Sex	N/A	N/A	N/A	N/A	N/A							
Water Type	SW	SW	SW	SW	SW							
Stock Details												
	Stock Origin	Gravir	Gravir	Gravir	Gravir	Gravir						
Facility No	1	4	2	2	7							

Case no: 2023-0437

Site No: FS0708

Method of killing: Percussive

Date of visit: 14/09/2023

Inspector(s):

Sheet Relevant: Y

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

Fish Number		1	2	3	4	5				
Time sampled after death (if > 45 minutes)		1 hour	1 hour	1.5	1.5	2 hours				
External Signs										
Behaviour	Moribund	S	S	S	S	S				
	Lethargic	S	S	S	S	S				
	Hanging vertical									
	Spiralling									
	Flashing									
	Loss of equilibrium									
Body	Dark				S	M				
	Distended abdomen									
	Anorexic					S				
	Scale Oedema									
Opercula	Shortened									
	Flared									
Haemorrhaging	Throat									
	Ventrum									
	Base of fins									
	Elsewhere									
Eyes	Exophthalmic									
	Enophthalmic (sunken)				M					
	Cataract									
	Haemorrhagic									
Gills	Pale	M	M	M	S	S				
	Zoned				M	M				
	Necrotic				M					
Lesions	Flank	M	M							
	Elsewhere									
Vent	Inflamed									
	Trailing faeces									
Lice Load	Estimate numbers	2	2	2	7	12				
Internal Signs										
Ascites	Clear									
	Bloody		S							
Oedema	In tissues									
Heart	Pale/anaemic									
	Granulomas									
	Deformed									
Liver	Petechial haem	M								
	Gross haem									
	Tissue breakdown									
	Enlarged									
	Colour number(s)									
	Granulomas									
	Lesions									
Pyloric caeca	Petechial haem									
	Tubules mauve									
	Lack of fat				M	S				
Spleen	Enlarged									
	Granulomas									
Gut	No food present	W	W	W	S	S				
	Yellow pseudo-faeces				M	S				
	External haem									
	Internal haem									
Body wall	Haemorrhaging									
Swim bladder	Haemorrhaging	S								
	Fluid filled	S								
Kidney	Swollen									
	Grey									
	Granular			W	W	W				
	Liquefied									
General	Parasites present									
	Anaemia									

Additional comments:

Case Number:	2023-0437	Site No:	FS0708	Insp:	
Date of Visit	14/09/2023	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
	Frequency of movements on from equivalent zone or compartment including third country	0	9	18	26
	Number of suppliers	0	5	10	14
Movements off	Frequency of movements off	0	3	6	10
	Number of destinations	0	3	6	10
Exposure via water	Site contacts	0	1-5	6-10	
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0			
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4	2
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6	
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8	
Management practices		None	Secure	Unsecure	
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1	2	0
On farm processing within the rules of the directive	No on farm processing	0			0
	Processing own fish (re-cycling risk)	1			
	Processing fish from MS of equivalent status	2			
	Processing fish from zone or compartment of equivalent status	4			
	Processing fish from Category III farm	8			
	Processing fish from Category V farm	10			
Disposal of fish and fish by-products	Site's own waste only processed.	0			
	Common processes with other farms	3			3
	Collection point for waste from other farms	5			
Use of unpasteurised feeds	No feeding of unpasteurised feed	0			0
	Feeding unpasteurised feed	5			
Biosecurity	Number of sites	1	2 or 3	≥ 4	
Contacts with other sites	Sites operating from single shorebase	0	1	2	1
	Sites sharing staff and equipment	0	1	2	1
Disinfection of equipment between sites, use of footbaths etc	Yes	0			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					20 MEDIUM

Case No: **2023-0437**

Site No: **FS0708**

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)

SealPro nets, jump nets, seal blinds, mortality removed daily, nets tensioned (recently increased using froyer ring), fish
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: 2023-0437

Site No: FS0708

Date of Visit: 14/09/2023

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: FS0708
Case No: 2023-0437
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	14/09/2023
SITE No	FS0708	SITE NAME	Portree
CASE No	20230437	INSPECTOR	██████████

Section 1: Summary

The fish health inspectorate received notification from the business operator that the above site had mortality exceeding the criteria for notification.

The site was subsequently inspected. During the inspection moribund fish were observed and five were removed for a necropsy. Samples were taken and submitted to our laboratory. Analysis revealed the following.

Histopathology examination revealed features consistent with *Aeromonas salmonicida* (furunculosis) (confirmed by bacteriology) and mild hyperplastic branchitis. Hepatocellular necrosis and necrotising nephritis were also observed. Fish 5 displayed evidence of osmotic imbalance.

Aeromonas salmonicida was also identified by bacteriology. The level and purity suggests this bacterium would be a primary cause of morbidity.

The samples tested positive for salmon gill poxvirus (SGPV), salmonid alphavirus (SAV), *Neoparamoeba perurans* (AGD) and *Paranucleospora theridion* using real-time PCR (qPCR)

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

Section 2: Case Detail

Observations

The fish health inspectorate received notification from the business operator that the above site had mortality exceeding the criteria for notification.

The site had experienced an acute mortality event in week 35 that had led to the death of over 30% of the stock on site. After this initial mortality spike, the rate fell to 3.1% and then 1.4% in weeks 36 and 37 respectively. Mortality then fell below the level of notification. The event was attributed by the business to a significant environmental challenge as a result of a suspected micro-jellyfish bloom of the species *Solmaris corona*.

During an inspection of the site, several moribund and lethargic fish were observed and 5 were removed for a necropsy and sampling. All fish removed displayed pale gills, the gill of fish 4 and 5 were also zoned and the gills of fish 4 were necrotic. The bodies of fish 4 and 5 were dark and fish 5 also appeared anorexic. The eye of fish 4 was enophthalmic (sunken). Fish 1 and 2 had lesions of their flank. All fish carried a lice load of between 2 and 12 lice.

Internally, all fish had no food present in the gut, and fish 4 and 5 had yellow pseudo-faeces in the gut and a lack of fat associated with the pyloric-caeca. Fish 1 exhibited petechial haemorrhaging around the liver and swim bladder the latter of which was also filled with fluid. The visceral cavity of fish 2 contained bloody ascites. The kidneys of fish 3, 4 and 5 were slightly granular.

Samples

Samples were collected from 5 fish according to the table below:

Fish number	Facility number	Species	Stage	Origin
1	1	Atlantic salmon (<i>Salmo salar</i>)	Grower ~2kg	Gravir
2	4	Atlantic salmon (<i>Salmo salar</i>)	Grower ~2kg	Gravir
3 and 4	2	Atlantic salmon (<i>Salmo salar</i>)	Grower ~1.5kg	Gravir
5	7	Atlantic salmon (<i>Salmo salar</i>)	Grower ~1kg	Gravir

Results

Bacteriology: Kidney, gill, and lesion material from 5 fish was inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated:

Aeromonas salmonicida: kidney (F1,F2,F3,F5), lesion (F1,F2), gill. (F2)

From the tests conducted, we do not have evidence of resistance to amoxycillin, oxytetracycline, sulphamethoxazole/trimethoprim or florfenicol.

Vibrio sp. lesion (F1). kidney (F5)

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

Salmonid alphavirus

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	-	-	-	-	Negative
F2	16.50	25.55	25.64	25.61	POSITIVE
F3	15.52	34.86	34.67	35.09	POSITIVE
F4	-	-	-	-	Negative
F5	-	-	-	-	Negative

Salmon gill poxvirus

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	18.93	29.73	29.93	29.84	POSITIVE
F2	20.28	26.70	26.84	26.52	POSITIVE
F3	20.47	28.48	28.67	28.82	POSITIVE
F4	18.54	27.70	27.55	28.07	POSITIVE
F5	19.91	35.96	36.86	34.88	POSITIVE

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

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

Neoparamoeba perurans (AGD)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	-	-	-	-	Negative
F2	-	-	-	-	Negative
F3	-	-	-	-	Negative
F4	18.54	29.08	29.17	29.12	POSITIVE
F5	19.91	32.61	31.88	31.54	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	18.93	32.58	31.92	32.09	POSITIVE
F2	20.28	29.53	30.41	29.21	POSITIVE
F3	20.47	26.34	36.52	26.36	POSITIVE
F4	18.54	26.13	26.11	26.03	POSITIVE
F5	19.91	31.29	31.61	30.88	POSITIVE

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

Histopathological examination revealed the following:

Gill: Lamellar hyperplastic branchitis, some, multifocal (F1, F3, F4), some adhesions also observed in F4. F1, F2 and F3 exhibited few aggregates of Gram-negative rod-shaped bacteria with necrosis and haemorrhage. Aneurysmal dilation/telangiectasia observed in F3 and free blood among gill filaments. Some features of autolysis observed in F2 and F5.

Skin & Muscle: Dermatitis and myositis with several aggregates of aggregates of Gram-negative rod-shaped bacteria, mild, multifocal (F1, F2).

R09

UKAS accredited testing laboratory No. 1964

Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB

Tel - 0131 244 3498 Fax - 0131 244 0944 Email - ms.fishhealth@gov.scot

Website - www.gov.scot/Topics/marine/science

Heart: Few small dense aggregates of Gram-negative bacteria (F1, F2) and mild, multifocal myocarditis (F2, F4). Epicarditis (F1, F2).

Gut and pyloric caeca: Haemorrhage of adipose tissue, mild, focal (F1). Mild peritonitis (F2, F5). Marked cell sloughing (potentially associated with post-mortem artefact) observed in F2, F3. F4 & F5: pyloric caeca tissue present.

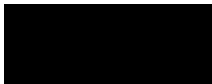
Pancreas: Within the normal range. F4 & F5: No tissue present.

Liver: Hepatocellular necrosis, very mild to mild, multifocal (F2) and some mild haemorrhage with Gram-negative rod-shaped bacterial aggregates (F2). Mild, diffuse hepatocellular vacuolation (macrovesicles) observed in F1, F2.

Kidney: Few dense aggregates of Gram-negative rod-shaped bacteria observed in interstitial cell (haemopoietic) (F1, F2, F3) with necrosis in F2. F1 also displayed vessels filled with leucocytes and few Gram-negative bacteria. Increased number of melanomacrophages observed in F5.

Spleen: Small foci of Gram-negative rod-shaped bacteria (F1, F2) and necrosis in F2.

Signed:



Fish Health Inspector

Date: 13/10/2023

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	FB0169	DATE OF VISIT	14/09/2023
SITE No	FS0708	SITE NAME	Portree
CASE No	20230437	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.

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

Records

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

Inspection under the 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.

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/>

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: 05/10/2023

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/)

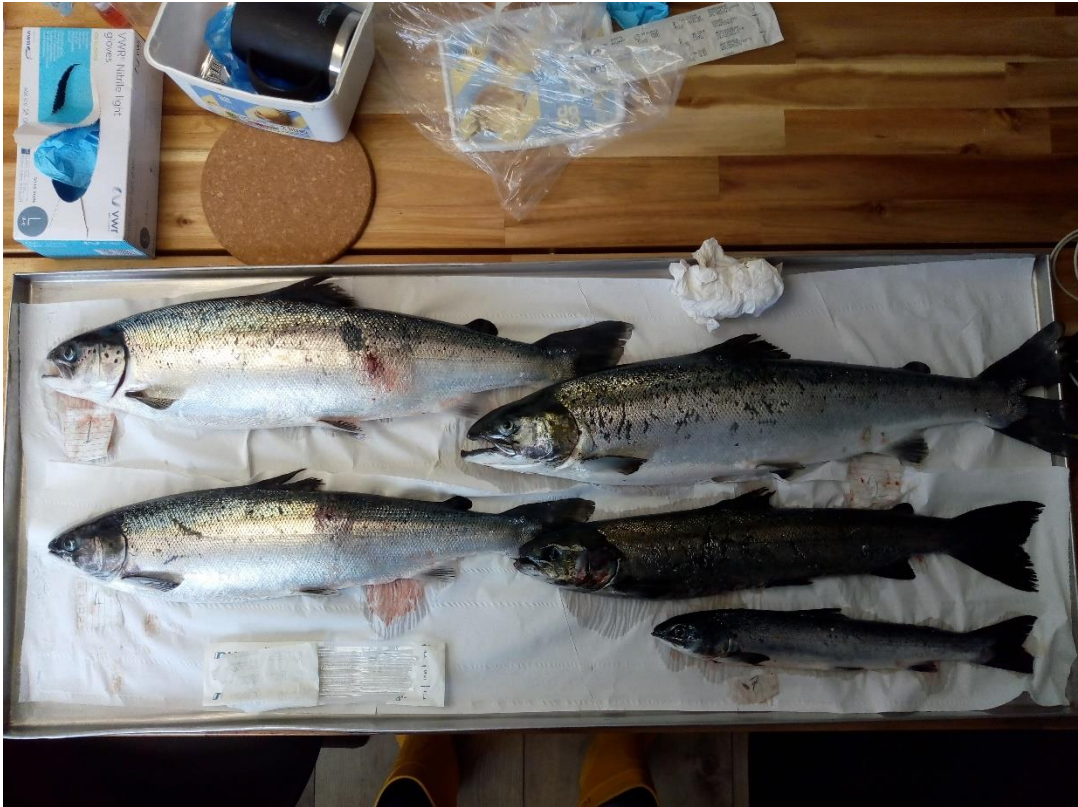


Image 1: Fish 1 – 5



Image 2: Fish 1 and 2



Image 3: Fish 3 – 5



Image 4: Fish 1 gross pathology

Case No: 2023-0446 Date of visit: 26/09/2023

Time spent on site: 2 hours Main Inspector:

Site No: FS1040 Site Name: Zoology Aquarium
Business No: FB0405 Business Name: Aberdeen University

Case Types: 1 REG 2 3 4 5 6

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

Observations: Region: GR Water type: B 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 following notification that *Crepidula fornicata* has been stocked on site (in room B41) since 2020. These are wild caught near Southampton, in the Dorset and Hampshire Bonamia CDN. Embryoes of the limpets are used for developmental studies; limpets are used as broodstock.

Most recent shipments of *Crepidula* ; 10/08/2023; 85 animals

On arrival to the site (via Royal Mail), animals are removed from ziplock bags and epibionts are scraped off. Any epibionts are then autoclaved and disposed of. Limpets are then moved into their respective tanks in secure closed facility, adjacent to disinfection area. This room has 5 tanks, 3 of which house the limpets, 1 is used as a feeding tank and one is used as a brood tank where temperature is raised to 20 deg to activate reproduction. This is the location where eggs sacs are removed from the limpets. The feeding tank is used to conduct 8hr feeds with phyto-feast.

The tank room facility is a closed system, with only air supplemented and adding new water (artificial SW from tap water). Prefiltered water (via carbon and sock filteres to 100 microns) is piped in and salt is added to make artificial SW. No full clean/empty of the tanks has been conducted since the facility was established in 2020. Weekly water testing occurs to ensure chemistry is within adequate thresholds. There is one drain in the tank room which has a 150micron filter associated with it, prior discharging to municiple waste. The mesh filter is autoclaved if ever removed.

Any seawater that the limpets come in contact with during transport or maintenance is treated with sodium hypochlorite (up to 24hrs) prior to disposal in drain either the disinfection room or culture room. No equipment is used elsewhere on site and does not leave B41. All animal tissues/mortality is frozen, then autoclaved, prior to disposal.

Daily checks are conducted and temperature noted as well as any mortalities.

Bisecurity plan and risk assessment for B41 reviewed by [REDACTED] and [REDACTED].

Rest of the site (includes, challenge room, main aquairum and SW aquarium):

Challenge room: currently empty. Buffer filter, UV and large carbon filters make up filtration system. Facility can also go to sump where water is then treated with sodium hyochlorite and/or treated with UV.

Main Aquarium: RAS system made up of 3 x 10 tank streams. Currently housing salmon and rainbow trout (see site records). Rainbow trout: input of 68 fish on 09/08/2023 observed fish with white patch discolorations on flanks and suspected RMS. Fish presenting patches were culled as a precaution and low salt treatment given (2 weeks). Salt bath was successful. Filtration system includes, sand, biomedica, UV, sock and carbon filters. Skimmers are also used.

Inspection of all rooms associated with the Zoology Aquarium was conducted by [REDACTED] and [REDACTED] on 26/09/2023.

Case No: 2023-0446

Site No: FS1040

Date of Visit: 26/09/2023

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	07	Facilities stocked	37	No facilities inspected	
Species	Crepidula	SAL	RTR		
Age group	mix	2022 Q4	2022		
No Fish	123	300	29		
Mean Fish Wt	mix	62g	300g		
Next Fallow Date (Site)	no plans		Next Input Date (Site)	unsure	
Recent (last 4 wks) disease problems?			Y	Any escapes (since last visit)?	
If yes, detail:	suspected red mark syndrome (RMS) in rainbow trout stock				

Movement Records

- 1. Movement records available for inspection?
- 2. Date of last inspection: 10/11/2010
- 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)
 mortalities are bagged up and frozen before autoclaved and disposed off in aquarium biological waste
- If other detail:
- 3. Mortality records complete and correctly entered?
- 4. Recent mortality (last 4 wks): 2023 (Crepidula annual mortality): 92 (in summer mortality higher due to and shucking stacks of crepidula causes mortality; spikes in mortality aft Outdoor, Main Aquarium: salmon had just been brought onto site 19/09/ mortality ; rainbow trout, no mortality since input (09/08/2023)
- 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.



67
N/A

Y
Y
N/A
N/A
N/A

Y

e.
Y
experiments er shipment). 2023, no

N

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N

N/A

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?

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

3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any *increased (unexplained)* mortality at the site been included?4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and *how* and *when* that will be notified to Scottish Ministers?

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

6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?

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

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

If no, detail:

Results of Surveillance

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

2. If yes, are results available for inspection?

3. Any significant results?

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

Red Mark Syndrome suspected, low salt treatment given. Histology has been taken but not processed. Autopsy was not required since salt treatment was successful.

Records checked between:

10/11/2010-26/09/2023



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0405	DATE OF VISIT	26/09/2023
SITE No	FS1040	SITE NAME	Zoology Aquarium
CASE No	20230446	INSPECTOR	[REDACTED]

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

This report replaces the fish health report R10 issued on 26/10/2023 by [REDACTED]. The report has been amended to correct the misspelling of 'closed facility' from 'close facility'. The previous report should be discarded.

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, following notification from the business that they have imported *Crepidula fornicata* from the Dorset & Hampshire CND for *Bonamia ostreae*. The purpose of the investigation was to determine if acceptable biosecurity measures were in place to ensure to eliminate the risk of viable propagule escaping into the natural environment.

Following the inspection, it was determined that the site, a 'closed facility', had implemented adequate measures eliminating the risk of viable propagule of *Crepidula fornicata* into the natural environment. No recommendations were made.

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

Signed:

Date: 16/11/2023

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)

R10

Case No: 2023-0447 Date of visit: 28/09/2023

Time spent on site: 2 Hours Main Inspector:

Site No: FS0562 Site Name: Geocrab Hatchery
Business No: FB0169 Business Name: Bakkafrost Scotland

Case Types: 1 MIX 2 VMD 3 4 5 6

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

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

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

[Empty text box for visit detail reason]

Additional Case Information:

No clinical signs of disease observed during the inspection of the site. Fish were observed shoaling well and responding positively to routine feeding regimes. The site was inspected in fair weather with a good level of visibility.

Fish sampled for VMD appeared healthy both internally and externally.

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="46"/>	Facilities stocked	<input type="text" value="4"/>	No facilities inspected	
Species	<input type="text" value="SAL"/>				
Age group	<input type="text" value="Q1 2023"/>				
No Fish	<input type="text" value="361,911"/>				
Mean Fish Wt	<input type="text" value="57g"/>				
Next Fallow Date (Site)	<input type="text" value="Oct/Nov 2023"/>	Next Input Date (Site)	<input type="text" value="December 2023"/>		
Recent (last 4 wks) disease problems?	<input type="text" value="N"/>		Any escapes (since last visit)?		
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: Cress

If other, detail: Aquacen Formalin

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)?

Cress

If other, detail: Aquacen Formalin, SLICE

6. Are medicines stored appropriately?

Biosecurity Records

1. Biosecurity records available for inspection?

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

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

4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and *how* and *when* that will be notified to Scottish Ministers?

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

6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?

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

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

If no, detail:

Results of Surveillance

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

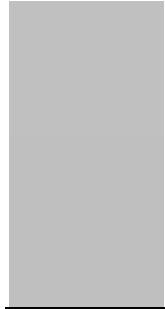
2. If yes, are results available for inspection?

3. Any significant results?

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

Records checked between:

18/10/2022 - 28/09/2023



46
N

Y
Y
Y
Y
N/A

Y

Y
6), Week 36
N

N
N/A
Y

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

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

	Pool/Fish No												
	Fish nos	F1 - 10	F11-20	F21-30	F31-40								
	Pool Group												
Stock Details	Species	SAL	SAL	SAL	SAL								
	Average weight	57g	57g	57g	57g								
	Sex	N/A	N/A	N/A	N/A								
	Water Type	FW	FW	FW	FW								
	Stock Origin	Geocrab Incubation Hatchery (FS1086)	Geocrab Incubation Hatchery (FS1086)	Geocrab Incubation Hatchery (FS1086)	Geocrab Incubation Hatchery (FS1086)								
	Facility No	103	104	105	106								

Site No: FS0562

Case No: 2023-0447

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	28/09/2023
SITE No	FS0562	SITE NAME	Geocrab Hatchery
CASE No	20230447	INSPECTOR	[REDACTED]

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

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

Samples were taken to be analysed for veterinary residues.

The Inspector did not observe any clinical signs associated with the listed diseases as described in the Aquatic Animal Health (Scotland) Regulations 2009.

Records

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

Medicine records were inspected and found to be adequately maintained.

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

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: 27/10/2023

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/)

R20