

Case No:	2025-0435			Date of visit:	11/11/2025		
Additional inspector(s):				Main Inspector:			
Site No:	FS1020	Site Name:	Bay of Vady				
Business No:	FB0095	Business Name:	Cooke Aquaculture Scotland Ltd				
Case Types:	1 REP	2 REG	3 DIA	4	5	6	
Water Temp (°C):	12.2	Thermometer No:	T173	FHI 045 completed	N/A		
Observations:	Region:	OR	Water type:	S	CoGP MA:	O-2	
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.				
Post mortem signs 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:

Lice levels have been low since input, one treatment of Slice administered in the summer and then one treatment with the FLS Flusher system.

Elevated mortalities reported to the FHI wk 40 10,605 (1.62%), wk 41 20,220 (3.14%), wk 42 18,025 (2.89%) these were reported to be mainly due to environmental issues resulting in complex gill issues and some predation from seals.

Mortalities did reduce but have increased once again, wk 43 2452 (0.40%), wk 44 6049 (1.00%), wk 45 26013 (4.35%), gill health related.

Site was split down on the 9th and 10th November with fish going to Carness, six pens were stocked on the day of inspection.

Lethargic and moribund fish observed in all cages inspected, five were removed for diagnostic sampling.

Case No: 2025-0435

Site No: FS1020

Date of Visit: 11/11/2025

Main Insp: [REDACTED]

Registration/Authorisation Details

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

Y

2. Changes made to details?

N

Site Details (include cleaner fish for all sections)

Total No facilities	12	Facilities stocked	6	No facilities inspected	12
Species	Atlantic salmon				
Age group	2025 S1				
No Fish	407,838				
Mean Fish Wt	1.4kg				
Next Fallow Date (Site)	Not known	Next Input Date (Site)	Not known		
Recent (last 4 wks) disease problems?		Y	Any escapes (since last visit)?		N
If yes, detail:	Gill health issues				

Movement Records1. Movement records for **all species** held available for inspection?

Y

2. Date of last inspection:

28/06/2023

3. Are records complete and correctly entered?

Y

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

Y

5. Are records complete and correctly entered?

Y

6. Have all introductions and imports (since last inspection) from outwith the GB health zone been recorded in the movement records?

N/A

Transport Records

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

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

Mortality Records1. Mortality records for **all species** held available for inspection?

Y

2. How are mortalities disposed of?

Other (detail)

If other detail: whole fish Keenan recycling, New Deer.

3. Mortality records complete and correctly entered?

Y

4. Recent mortality (last 4 wks):

see additional information

5. Evidence of recent increased/atypical mortalities?

Y

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

see additional information

6. Any other peaks in mortality during period checked?

N

If yes, detail:

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

N/A

If yes, detail action:

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

Y

Case no:

2025-0435

Site No:

FS1020

Date of visit/
Sampling:

11/11/2025

11/

Priority samples:

VI

BA

PA

MG

HI

Time sampling
starts/ends:

12:30:00

13:30:00

Main Insp:

VMD No.

Environmental conditions:

1

Dry

2

Sunny

3

Calm

4

5

Summary samples

HIST

Y

BA

Y

MG

Y

VI

PA

Total Samples

Add Fish/Pools - click button

	Pool/Fish No	F1	F2	F3	F4	F5							
	Fish nos	1	2	3	4	5							
	Pool Group												
Stock Details	Species	SAL	SAL	SAL	SAL	SAL							
	Average weight	1kg	1kg	1kg	1kg	1kg							
	Sex	N/A	N/A	N/A	N/A	N/A							
	Water Type	SW	SW	SW	SW	SW							
		Haweswater	Haweswater	Haweswater	Haweswater	Haweswater							
	Stock Origin												
	Facility No	11	11	11	12	12							

11/2025 Additional Sample Information:

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5

Total Tests assigned

2

[illegible]

Method of killing: Percussive

Sheet Relevant: ☒[illegible]

Date of visit: 11/11/2025

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

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

Additional comments:

All fish had shortened snouts

Case No: 2025-0435

Date of visit: 11/11/2025

Site No: FS1020

Main Insp:

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
AGD (Neoparamoeba perurans) (PCR) - AGDQ	5/5	17/11/2025		17/11/2025		11/12/2025		
IHN (PCR) - IHNP	0/5	17/11/2025		17/11/2025		11/12/2025		
IPN (PCR) - IPNM	0/5	17/11/2025		17/11/2025		11/12/2025		
ISA (real time qPCR - heart & kidney) - ISAQ	0/5	17/11/2025		17/11/2025		11/12/2025		
Paranucleospora theridion (PCR) - PNST	5/5	17/11/2025		17/11/2025		11/12/2025		
Piscine myocarditis virus (CMS) (PCR) - PMVP	0/5	17/11/2025		17/11/2025		11/12/2025		
Salmon gill poxvirus (PCR) - SPVP	5/5	17/11/2025		17/11/2025		11/12/2025		
Salmonid alphavirus (SAV) (PCR) - SALP	0/5	17/11/2025		17/11/2025		11/12/2025		
VHS (PCR) - VHSP	0/5	17/11/2025		17/11/2025		11/12/2025		
VSPE	2/5	27/11/2025		27/11/2025		11/12/2025		
Gill pathology - GPAT	5/5	02/12/2025		02/12/2025		11/12/2025		
Amoebic gill disease (histology) - AMGD	5/5	02/12/2025		02/12/2025		11/12/2025		
Complex gill issues (histology) - CGDH	5/5	02/12/2025		02/12/2025		11/12/2025		
Spleen pathology - SPAT	4/5	02/12/2025		02/12/2025		11/12/2025		
Kidney pathology - KPAT	1/4	02/12/2025		02/12/2025		11/12/2025		
Liver pathology - LPAT	5/5	02/12/2025		02/12/2025		11/12/2025		
Epitheliocystis - EPIT	5/5	02/12/2025		02/12/2025		11/12/2025		

Report Summary			
Case Type	Date	Insp	2 nd Insp
REP,REG	20/11/2025		
DIA	11/12/2025		

Fish Health Inspectorate visit report

Summary for information of site operator

Business no:	FB0095	Date of visit:	11/11/2025
Site no:	FS1020	Site name:	Bay of Vady
Case no:	20250435	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, following reports of elevated mortalities.

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

Records

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

The following records were also inspected to ensure that the conditions of authorisation for your Aquaculture Production Business (APB) are being met:

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

Mortality records were inspected and found to be adequately maintained.

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

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

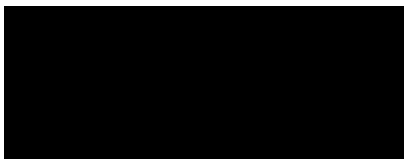
Inspection under the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2015

R10

Medicine records were inspected and found to be adequately maintained.

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

Signed:



Date: 20/11/2025

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/FishHealthInspectorateServiceCharter)

R10

Fish Health Inspectorate visit report

Summary for information of site operator

Business no:	FB0095	Date of visit:	11/11/2025
Site no:	FS1020	Site name:	Bay of Vady
Case no:	20250435	Inspector:	

Section one: summary

The site was inspected following reports of elevated mortalities, on inspection of the stock a number of lethargic fish were observed. Five fish were removed for further examination and subsequent diagnostic sampling.

Histopathological examination revealed moderate complex gill pathology with evidence of amoebic gill disease (AGD) and F2 also exhibited signs of a systemic bacterial infection and F4 displayed features of *Piscirickettsia*-like in the gill tissue. Minor myocarditis was observed and could be linked to a degree of viral infection.

Gill samples tested by qPCR were positive for the gill related pathogens: *Neoparamoeba perurans* (AGD), *Paranucleospora theridion* and salmon gill poxvirus (SGPV), which support the histopathology observations.

Vibrio sp. was identified. The level and purity of growth would suggest this bacterium would be implicated in the morbidity of F2 but not in F3.

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 two: case detail

Observations

Elevated mortalities had been reported to the Fish Health Inspectorate starting on week 40 of 2025 and continuing to the day of inspection on the 11/11/2025. In total 83,364 salmon mortalities at an average weight of 1.4 kg were reported attributed to gill health issues. On inspection of the site lethargic and moribund fish were observed in all cages, five were removed for diagnostic sampling. All fish appeared dark in colouration and had necrotic gills. F1, 3 and 5 were anorexic with shortened opercula. F2 displayed bi-lateral exophthalmia and F1-4 had pale gills.

R09

Internally all fish had pale/anaemic hearts with petechial haemorrhaging present on the liver of fish 2,3 and 4, in addition the liver of F4 had granulomas and lesions on F3. The pyloric caeca of F5 had petechial haemorrhaging and the tubules of F1 were mauve with a lack of fat. Splenomegaly was noted in F2 and F4.

Samples

Samples were collected from 1 to 5 fish according to the table below:

Fish number	Facility number	Species	Stage	Origin
1-3	11	Atlantic salmon	1.4 kg 2025 S1	Haweswater
4 and 5	12	Atlantic salmon	1.4 kg 2025 S1	Haweswater

Results

Bacteriology:

Kidney and gill material from F1 to F5 were inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated.

- *Vibrio* sp.: F2 and F3 (kidney)

Virology:

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

Salmon gill poxvirus (SGPV),

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	19.13	23.91	24.07	24.05	POSITIVE
F2	20.93	27.01	26.96	26.97	POSITIVE
F3	19.92	24.65	24.61	24.68	POSITIVE
F4	19.71	26.29	26.47	26.55	POSITIVE
F5	19.92	23.22	23.24	23.35	POSITIVE

R09

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

Parasitology:

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

Neoparamoeba perurans (AGD)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	19.13	27.93	29.03	28.22	POSITIVE
F2	20.93	29.36	29.02	29.28	POSITIVE
F3	19.92	27.40	27.17	27.03	POSITIVE
F4	19.71	32.93	32.45	32.10	POSITIVE
F5	19.92	25.52	24.70	25.18	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	19.13	21.34	21.31	21.43	POSITIVE
F2	20.93	24.76	24.69	24.68	POSITIVE
F3	19.92	25.00	24.94	24.90	POSITIVE
F4	19.71	25.54	25.08	25.48	POSITIVE
F5	19.92	23.64	23.77	23.91	POSITIVE

Histology:

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

Histopathological examination revealed the following:

Gill: lamellar hyperplasia, moderate, multifocal (F1, F2, F4) and to a lesser extent F3 and F5 with areas of necrosis. Gram-negative bacteria observed in cell debris (F1, F2) and in F2 also in the necrotic areas. F4 displays an area with round blue structures resembling bacteria (likely *Piscirickettsia* sp.) (gill tip). Multiple numbers of basophilic epithelial

R09

inclusions (likely epitheliocystis) and to several amoeboid cells resembling *Neoparamoeba perurans* observed. Several aneurysmal dilation/telangiectasia observed in all fish. Some fish displayed post-mortem artefacts (F5).

Skin & Muscle: No abnormalities detected.

Heart: Myocarditis, minor, multifocal (F2, F3, F4, F5). Epicarditis, mild (F1, F2, F4, F5). Few thrombi observed at the compact-spongy layer junction.

Gut and pyloric caeca: Small areas of abdominal haemorrhage (F2). Peritonitis (F3, F5).

Pancreas: No abnormalities detected.

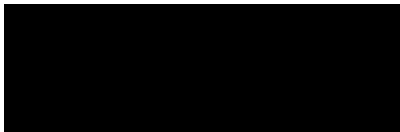
Liver: Hepatocellular necrosis, mild, with areas of coalescence (F1, F3 F5) with evidence of healing in F4 . Vasculitis, mild (F2, F4).

Kidney: Glomeruli displayed eosinophilic material within Bowman's capsule (F1) and some increase in the numbers of aggregates of melanomacrophages.

Spleen: Mild, multifocal, necrosis (F1, F3, F5). F2 exhibited peritonitis and areas of splenic necrosis containing numerous Gram-negative bacteria.

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

Signed:



Date: 11/12/2025

Fish Health Inspector

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R09



F1-5



F1



F1



F1



F2



F2



F2



F3



F3



F3



F4



F4



F4



F5



F5



F5