Case No: 2025-0021 Date of visit: 28/01/2025

Time spent on site: 4.5h Main Inspector: [redacted]

Site No: FS0914 Site Name: Lismore West
Business No: FB0125 Business Name: Scottish Sea Farms Ltd

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

Water Temp (°C): 9.1 Thermometer No: T173 FHI 045 completed N/A

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

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:

Peaks in salmon mortality 2023 wk 18 1717 (1.2%), wk 19 2327 (2.0%), wk 20 3281 (4.5%), handling during harvesting underlying gill health issues.

Peaks in salmon mortality 2024 wk 47 10,999 (9.4%), wk 48 19190 (4.7%), wk 49 10,301 (2.3%), wk 51 6060 (1.4%). AGD, moritella, SRS.

Salmon morts for last four weeks wk 4 4904 (1.3%), wk 3 10493 (2.6%), , wk 2 1816 (0.5%), wk 1 6310 (1.5%). AGD, moritella, SRS

Wrasse mortalities last 4 weeks 181 (0.83%) background mortalities.

No consent for SLICE. Fish are input to Lismore East and transferred to Lismore West at around 1kg so that SLICE can be used in the early stage of SW production. A risk assessment of these SW to SW transfers had been completed and was available for inspection.

The CoGP management area M-36 is an area of non synchronous production/fallowing, the required risk assessment was in place.

All pens had a number of moribund fish with lesions on the flanks. Five fish were removed for diagnostic sampling.

Case No:	2025-0021	Site No:	FS0914
Date of Visit:	28/01/2025	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		8	Facilities stocked		6	No facilities inspected		8
Species	SAL	WRA						
Age group	2024 Q2	wild						
No Fish	376,567	21,558						
Mean Fish Wt	1.9kg	mix						
Next Fallow Date (Site)		August 2025		Next Input Date (Site)		Feb 2026		
Recent (last 4 wks) disease problems?			Y	Any escapes (since last visit)?				N
If yes, detail:	AGD, SRS, Moritella							

Movement Records

1. Movement records available for inspection?	Y
2. Date of last inspection:	30/03/2023
3. Are records complete and correctly entered?	Y
4. Are movement records available for dead fish and waste?	Y
5. Are records complete and correctly entered?	Y
6. Are health certificates for introductions (outwith GB) available?	N/A

Transport Records

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

Mortality Records

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

Treatments and Medicines Records

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

Biosecurity Records

1. Biosecurity records available for inspection?	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	Y
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any *increased* (*unexplained)* mortality at the site been included?	Y
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and *how* and *when* that will be notified to Scottish Ministers?	Y
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?	Y
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	Y
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	Y
8. Have the biosecurity procedures been adequately implemented on site?	Y
If no, detail:	

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	Y
2. If yes, are results available for inspection?	Y
3. Any significant results?	Y
If yes, detail (if not detailed under recent disease problems).	
Records checked between:	30/3/2023 to 28/1/2025

Case no:	2025-0021	Site No:	FS0914	Date of visit/ Sampling:	28/01/2025	28/0							
Priority samples:	VI		BA		PA		MG		HI				
Time sampling starts/ends:	12:00:00	13:30:00	Inspector:		VMD No.	5							
Environmental conditions:	1	Indoors	2		3		4		5				
Summary samples	HIST	Y	BA	Y	MG	Y	VI		PA		Total Samples		

Add Fish/Pools - click

	Pool/Fish No	F1	F2	F3	F4	F5							
	Fish nos	1	2	3	4	5	6	7					
	Pool Group	P1	P1	P1	P1	P1							
Stock Details	Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL					
	Average weight	1.5kg	1.5kg	1.5kg	1.5kg	1.5kg	2kg	2kg					
	Sex	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
	Water Type	SW	SW	SW	SW	SW	SW	SW					
	Stock Origin	Lismore East	Lismore East	Lismore East	Lismore East	Lismore East	Lismore East	Lismore East					
	Facility No	3	3	3	3	3	8	8					

01/2025 Additional Sample Information:

Additional histology lesion samples taken for all fish.
Bacteriology, split plates used for all fish due to plates available, additional lesion samples taken, plates are labelled to identify source.

5 Total Tests assigned 5

Case no: 2025-0021 Site No: FS0914 Method of killing: Percussive

Date of visit: 28/01/2025 Inspector(s): [redacted] Sheet Relevant: Y

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

Fish Number		1	2	3	4	5					
Time sampled after death (if > 45 minutes)											
External Signs											
Behaviour	Moribund	S	S	S	S	S					
	Lethargic	S	S	S	S	S					
	Hanging vertical										
	Spiralling										
	Flashing										
	Loss of equilibrium										
Body	Dark										
	Distended abdomen										
	Anorexic										
	Scale Oedema										
Opercula	Shortened										
	Flared										
Haemorrhaging	Throat										
	Ventrum										
	Base of fins										
	Elsewhere										
Eyes	Exophthalmic										
	Enophthalmic (sunken)										
	Cataract										
	Haemorrhagic	S									
Gills	Pale	M	M			S					
	Zoned										
	Necrotic	W	W		W	W					
Lesions	Flank	S	S	S	S	S					
	Elsewhere										
Vent	Inflamed										
	Trailing faeces										
Lice Load	Estimate numbers										
Internal Signs											
Ascites	Clear			S	S	S					
	Bloody										
Oedema	In tissues										
Heart	Pale/anaemic										
	Granulomas										
	Deformed		M	M	M	M					
Liver	Petechial haem										
	Gross haem					S					
	Tissue breakdown					S					
	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	S		S		S					
	External haem										
	Internal haem										
Body wall	Haemorrhaging										
Swim bladder	Haemorrhaging										
	Fluid filled										
Kidney	Swollen										
	Grey										
	Granular	W	W	W	W	W					
	Liquefied										
General	Parasites present										
	Anaemia										

Case no: 2025-0021

Date of visit: 28/01/2025

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

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

Additional comments:

Case Number:	2025-0021		Site No:	FS0914	Insp:	
Date of Visit	28/01/2025					

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

Total	**16**
Rank	**MEDIUM**

Case No: 2025-0021 Site No: FS0914

Sea Lice Inspection (Seawater Sites Only)

1. Has the site experienced sea lice problems in the previous 4 years?	N
2. Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis?	N
3. Does the site have access to a range of licenced in-feed and bath sea lice medications (including deltamethrin, azamethiphos and emamectin benzoate) as well as access to suitable biological and/or mechanical control measures, and can these be deployed in a reasonable period of time?	N
4. Is there a signed documented farm management agreement or statement relevant to the site and CoGP Farm Management Area (or equivalent)?	Y
5. Are sea lice count records available for inspection? (Legal SSI, CoGP Annex 6)	Y
6. Do records adequately reflect the required standard specified in the SSI and the CoGP? (Legal SSI, CoGP Annex 6)	Y
7. Are sea lice (*L. salmonis*) record levels below the suggested criteria for treatment in the CoGP during the period that records are inspected? (CoGP Annex 6)	N
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?	Y
If yes, have these been reported to the Fish Health Inspectorate? If no, FHI see comment.	Y
9. Is *C. elongatus* infestation at a level which is considered to cause significant welfare problems? (CoGP 4.3.81, 5.3.50)	N
10. Have therapeutic treatments been administered or other actions taken when *L. salmonis levels* have exceeded the suggested criteria for treatment or where *C. elongatus* is considered to have welfare implications? (CoGP 4.3.82, 5.3.51)	N/A
11. Has any other action been taken (where applicable)?	Y
12. Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded?	Y
13. Are treatments, where conducted, carried out in cooperation between participating farms?	N
14. Is there a harvesting strategy for the site, where fewer populations or part populations are held without treatment for sea lice?	Y
15. Is there a site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation?	Y
16. Do the sea lice levels observed on stocks reflect sea lice count data? If no please detail reasons.	Y

Containment Inspection

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

HDPE, sapphire nets, top nets, froya rings and sliders.

If other, detail below:

3. Have escape incidents or events been experienced on or in the vicinity of the site since the last FHI inspection?	N
If Yes proceed with questions 4 – 9. If No skip to question 10	
4. Have these been reported to Scottish Ministers?	
5. Have these been reported to local DSFB forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)	
6. Have these been reported to the SSPO and local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)	
7. Were methods (if any) used to recover escapees? If yes give detail	
8. If gill nets were deployed was this action agreed with local wild fish interests and was permission given by Scottish Ministers? (Legal, CoGP – 4.4.38, 5.4.18)	
9. What action was taken to prevent and minimise the risk of further escapes? (Not covered in code but could be considered under satisfactory measures of the Act)	
10. Is the site inspected as satisfactory with regards to containment? If no, please detail reason(s)	Y

Case No: 2025-0021 Site No: FS0914

Date of Visit: 28/01/2025 Inspector: [redacted]

Point of Compliance

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

If N, no further questions require completion.

Points of Compliance for Both Farm Management Agreements and Statements

2. Has a current farm management agreement or statement (FMAg/S) been prepared?	Y
3. Is the current FMAg/S available for inspection?	Y
4. Does the FMAg/S identify the relevant farm management area?	Y
5. Does the FMAg/S identify the fish farm site(s) to which it applies?	Y
6. Does the FMAg/S identify the date of commencement of the agreement or statement?	Y
7. Does the FMAg/S identify the date of review?	Y

Arrangements for Fish Health Management

8. Does the FMAg/S identify the minimum health standards for the stocks to be introduced to the area or farm?	Y
9. Does the FMAg/S identify the vaccination requirements for stocks held in the area or farm?	Y
10. Does the FMAg/S identify the species of fish which may be stocked into the area or farm?	Y
11. Does the FMAg/S identify the maximum stocking density of any pen on any farm in the area or the individual farm?	Y
12. Does the FMAg/S identify the arrangements for the storage and disposal of any dead fish from any fish farm in the area or the individual farm?	Y

Arrangements for The Management of Sea Lice

13. Does the FMAg/S identify arrangements for the sharing of data on sea lice numbers and treatments?	Y
14. Does the FMAg/S identify the availability and the use of medicines on farms covered by the agreement of statement?	Y
15. Does the FMAg/S identify any requirements for the sensitivity testing of available treatments for sea lice on farms in the area or individual farms?	Y
16. Does the FMAg/S identify the circumstances under which biological controls and cleaner fish are to be used on farms in the area or individual farms?	Y
17. Does the FMAg/S identify the arrangements for synchronous treatments on farms within the area?	Y

Live Fish Movements

18. Does the FMAg/S identify the circumstances when live fish may be introduced or removed from the area or farm?	Y
19. Does the FMAg/S identify the arrangements for the movement of live fish on and off sites in the area or individual farms?	Y

Harvesting

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

Fallowing

21. Does the FMAg/S identify the dates by which the area or individual farm will be fallow and the earliest date when a farm or area may be restocked?	Y
22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement?	Y
23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?	Y

Point of Compliance for Farm Management Agreements Only

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

Management and operation

25. Is the fish farm being managed and operated in accordance with the agreement or statement?	Y
26. What is the version no/date of issue of the FMAg/S?	02/12/2024

Case No: 2025-0021 Date of visit: 28/01/2025

Site No: FS0914 Inspector:

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2nd Insp
IPN (PCR) - IPNM	0/5	04/02/2025		04/02/2025		27/02/2025		
ISA (real time qPCR - heart & kidney) - ISAQ	0/5	04/02/2025		04/02/2025		27/02/2025		
Piscine myocarditis virus (CMS) (PCR) - PMVP	0/5	04/02/2025		04/02/2025		27/02/2025		
VHS (PCR) - VHSP	0/5	04/02/2025		04/02/2025		27/02/2025		
AGD (Neoparamoeba perurans) (PCR) - AGDQ	5/5	04/02/2025		04/02/2025		27/02/2025		
Paranucleospora theridion (PCR) - PNST	5/5	04/02/2025		04/02/2025		27/02/2025		
IHN (PCR) - IHNP	0/5	04/02/2025		04/02/2025		27/02/2025		
Salmon gill poxvirus (PCR) - SPVP	5/5	04/02/2025		04/02/2025		27/02/2025		
Salmonid alphavirus (SAV) (PCR) - SALP	0/5	04/02/2025		04/02/2025		27/02/2025		
Vibrio species (culture) - VSPE	5/5	17/02/2025		17/02/2025		27/02/2025		
Moritella viscosa - VVIS	1/5	17/02/2025		17/02/2025		27/02/2025		
Amoebic gill disease (histology) - AMGD	3/5	21/02/2025		21/02/2025		27/02/2025		
Complex gill issues (histology) - CGDH	5/5	21/02/2025		21/02/2025		27/02/2025		
Epitheliocystis - EPIT	1/5	21/02/2025		21/02/2025		27/02/2025		
Gill pathology - GPAT	5/5	21/02/2025		21/02/2025		27/02/2025		
Muscle pathology - MPAT	5/5	21/02/2025		21/02/2025		27/02/2025		
Skin ulcers - SULC	5/5	21/02/2025		21/02/2025		27/02/2025		
Skin pathology - SKIN	5/5	21/02/2025		21/02/2025		27/02/2025		

Report Summary			
Case Type	Date	Insp	2nd Insp
ECI,CNI,SLI,VMD	05/02/2025		
DIA	27/02/2025		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0125	**DATE OF VISIT**	28/01/2025
SITE NO	FS0914	**SITE NAME**	Lismore West
CASE NO	20250021	**INSPECTOR**	[redacted]

Section 1: Summary

During a routine site inspection a number of moribund salmon were observed in each pen, five were removed for further examination and subsequent diagnostic sampling.

Histopathology examination revealed bacterial ulcerative lesions on the skin which may impact on the osmotic balance of the fish. Complex gill issues with mild proliferative branchitis, AGD and epitheliocystis were also observed.

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.

Moritella viscosa was identified, whilst it is a primary fish pathogen, the level and purity of growth would not suggest it is present as the source of morbidity. Four *Vibrio* spp. were also identified, the heavy mixed growth observed would suggest that these bacteria would be implicated in the morbidity of the fish sampled, but each as an individual, would not be the source of morbidity.

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

Section 2: Case Detail

Observations

The site was inspected as part of the FHI statutory inspection and sampling programme. Elevated mortalities had been occurring on the site for a number of weeks prior to the inspection the cause of these being complex gill issues and winter sores.

On inspection of the site a number of moribund and lethargic fish were observed in each pen, five were removed for diagnostic sampling.

Externally all fish had skin lesions on the flanks. The gills of F1, F2 and F5 were pale and F1, F2, F4 and F5 appeared necrotic.

Internally F3, F4 and F5 had clear ascites, the hearts of F2, F3, F4 and F5 were deformed and the liver of F5 had gross haemorrhaging and tissue breakdown. Yellow pseudo faeces was present in F1, F3, and F5 and the kidney of all fish was slightly granular.

UKAS Accredited Inspection Body - Type C No. 0269
Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB
Tel – 0131 244 3498 Email – ms.fishhealth@gov.scot
Website - https://www.gov.scot/policies/fish-health-inspectorate/

Samples

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

Fish number	Facility number	Species	Stage	Origin
F1-F5	3	Atlantic salmon	1.5kg 2024 Q2	Lismore East

Results

Bacteriology: Kidney, gill and lesion material from F1-F5 were inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated from fish F1-F5

- *Moritela viscosa* (kidney F1)
- *Vibrio spp,.* (kidney and lesion F1 – 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).

Salmon gill poxvirus

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.33	30.93	31.03	31.27	**POSITIVE**
F2	22.30	37.02	36.56	36.20	**POSITIVE**
F3	21.77	25.49	25.26	25.34	**POSITIVE**
F4	21.73	34.01	34.00	33.64	**POSITIVE**
F5	21.69	25.06	25.03	25.08	**POSITIVE**

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

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

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.33	27.24	27.30	27.33	**POSITIVE**
F2	22.30	28.31	28.25	28.25	**POSITIVE**
F3	21.77	29.76	29.79	29.81	**POSITIVE**

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F4	21.73	28.82	28.66	28.64	**POSITIVE**
F5	21.69	28.23	28.17	28.16	**POSITIVE**

Neoparamoeba perurans (AGD)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.33	29.34	29.47	29.34	POSITIVE
F2	22.30	30.89	30.88	31.00	POSITIVE
F3	21.77	28.06	28.27	28.11	POSITIVE
F4	21.73	29.49	29.32	29.46	POSITIVE
F5	21.69	28.70	28.75	28.81	POSITIVE

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

Histopathological examination revealed the following:

Gill: Lamellar hyperplasia and fusion, mild, multifocal (F1-F5) and some tip clubbing observed in all. Some multifocal epithelial lamellar thickness (F3). F2 and F5 also displayed small foci of epithelial necrosis. Several basophilic epithelial inclusions (likely epitheliocystis) observed in F5 and several amoeboid cells resembling Neoparamoeba perurans observed in F1, F4 & F5. Some aneurysmal dilation/telangiectasia (F1-F5) and some cellular debris among gill filaments with bacteria associated (F5).

Skin & Muscle: F1-F5 lesion: Absence of the epidermis, presence of a mat Gram-negative bacteria at the dermal outer layer and within dermis and musculature, myositis, haemorrhage and some to moderate inflammatory cell infiltrated observed in all fish.

Heart: Very minor multifocal myocarditis (F1, F2, F4). Mild epicarditis (F1-F3). F5 displayed foci of muscular degeneration at the compact layer.

Gut and pyloric caeca: Peritonitis, mild, multifocal (F2-F3). Foci of abdominal adipose tissue haemorrhage (F2, F3).

Pancreas: Within the normal range.

Liver: Hepatocellular necrosis, mild, multifocal (F5). F2 displayed few scattered apoptotic cells. Hepatocellular vacuolation (macrovesicles), mild, multifocal (F1).

Kidney: Occasional erythrophagocytosis (F1). Some reduction of interstitial cell (haematopoietic) with some circulating inflammatory cell (F4, F5).

Spleen: Some necrosis and haemorrhage (F2). Some peritonitis in F4).

UKAS Accredited Inspection Body - Type C No. 0269
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Tel – 0131 244 3498 Email – ms.fishhealth@gov.scot
Website - https://www.gov.scot/policies/fish-health-inspectorate/

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

Signed: [redacted] Date: 28/2/2025

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)

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FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0125	**DATE OF VISIT**	28/01/2025
SITE NO	FS0914	**SITE NAME**	Lismore West
CASE NO	20250021	**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.

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.

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

Medicine records were inspected and found to be adequately maintained.

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Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

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

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

Signed: [redacted] Date: 5/2/2025

Fish Health Inspector

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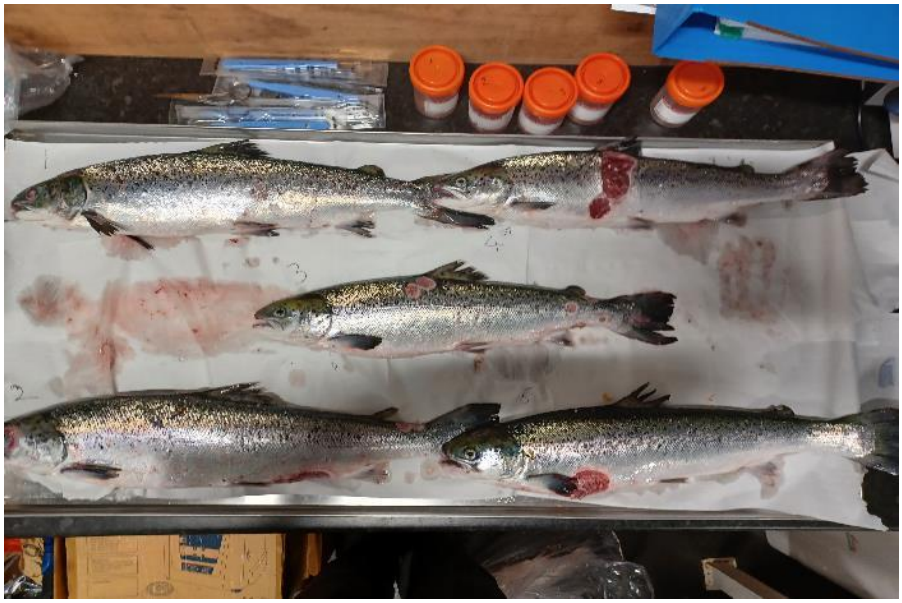
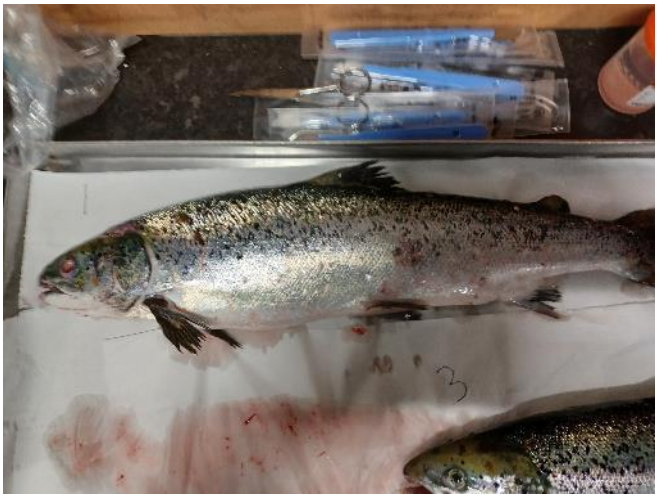


F1-5



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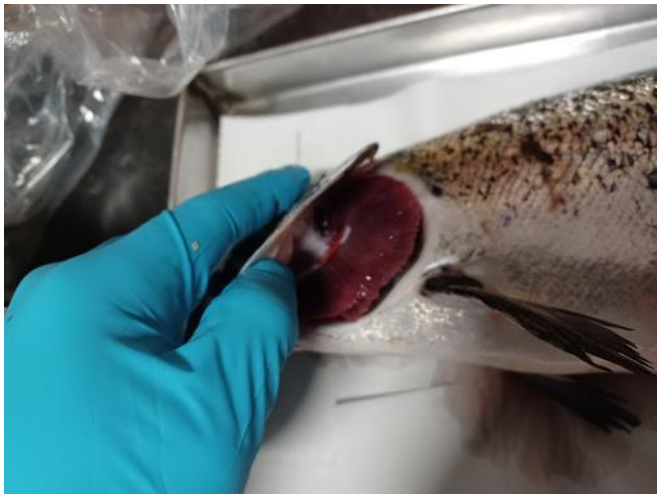

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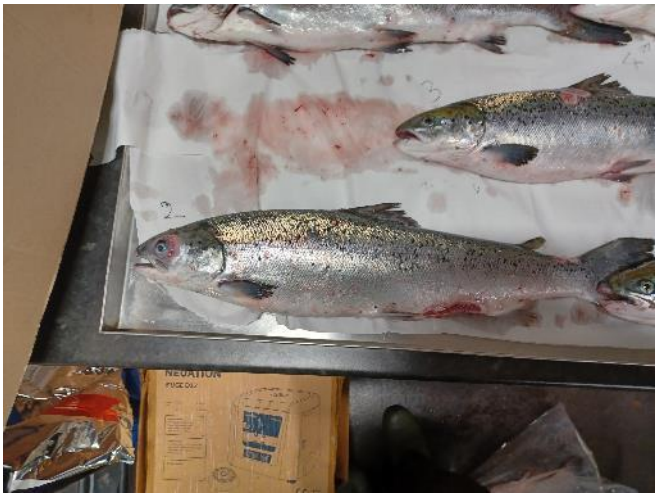

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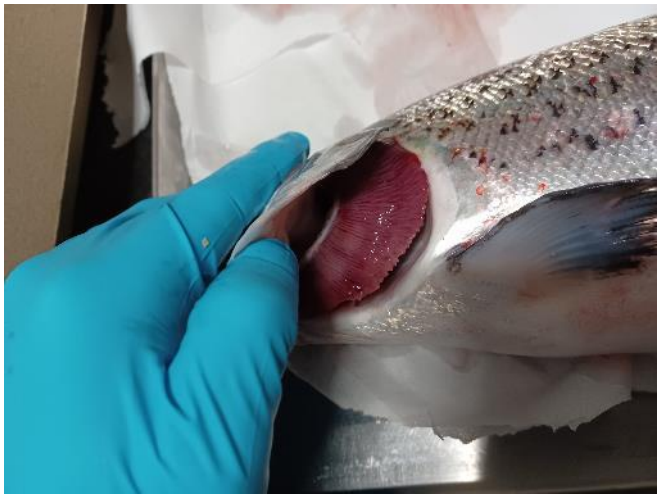

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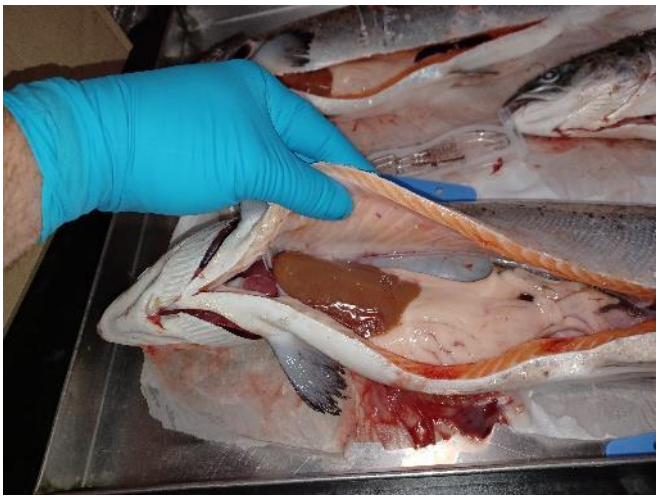

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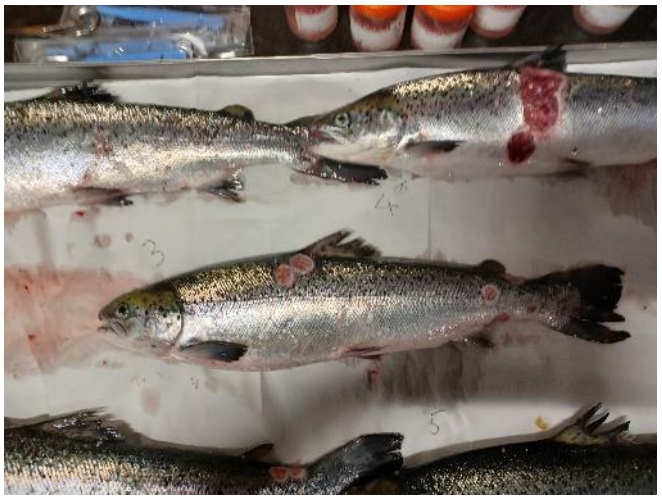

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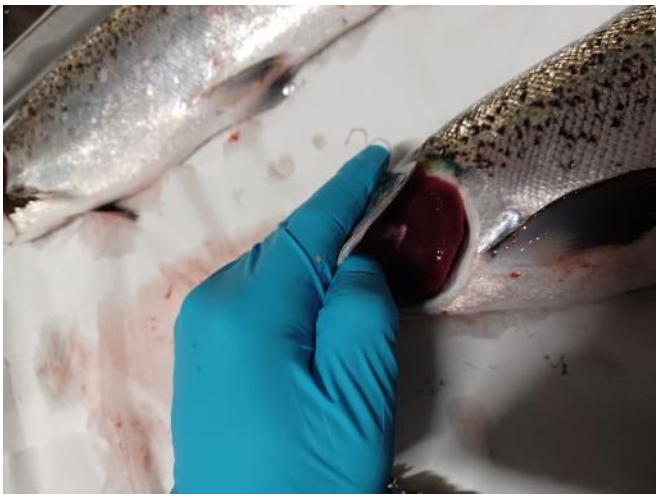

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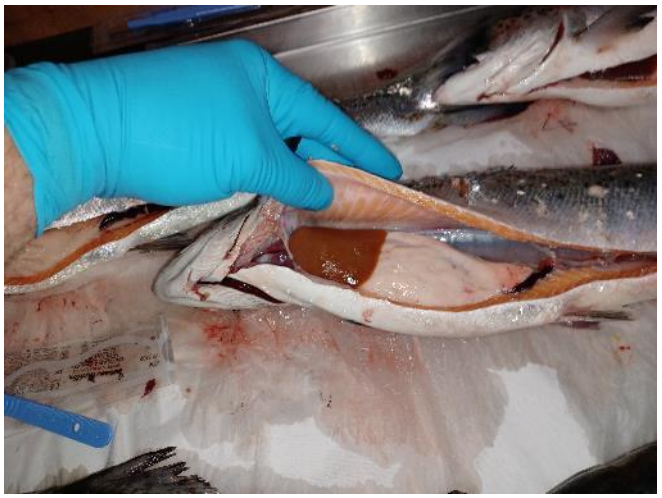

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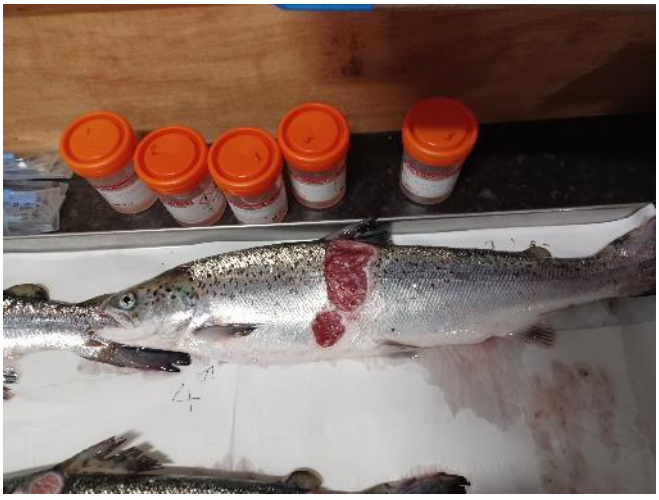

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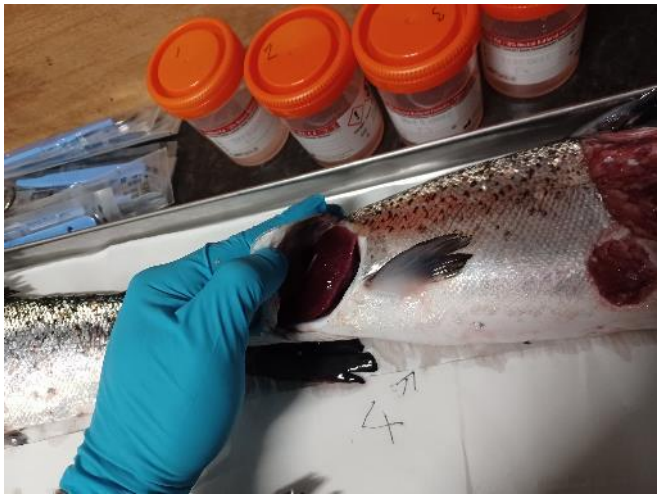

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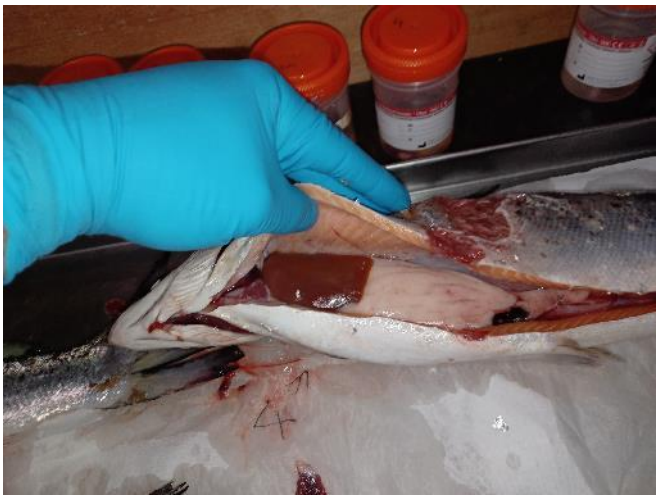

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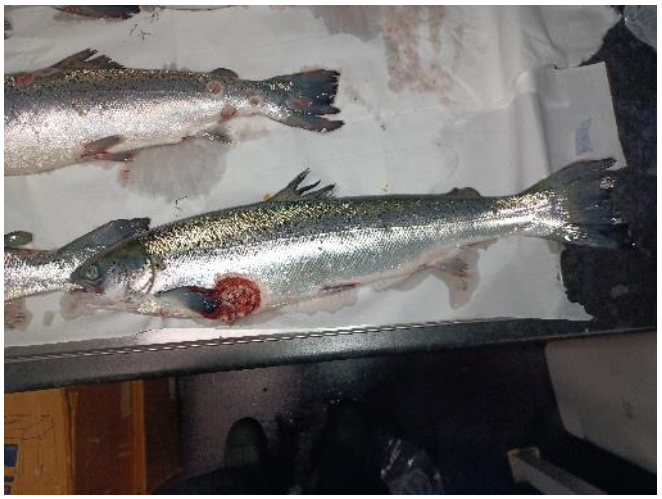

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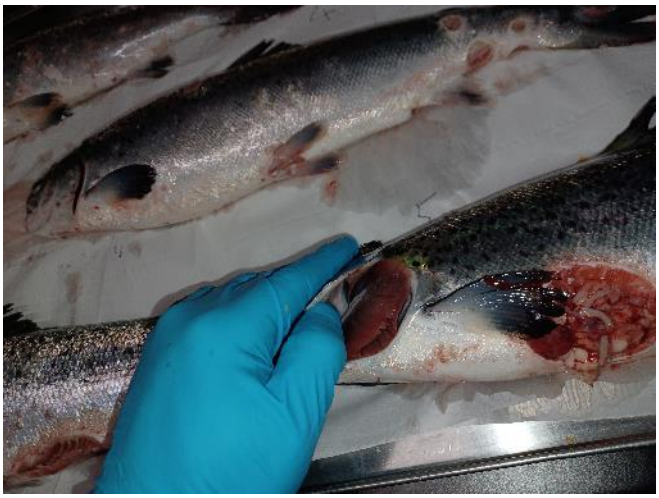

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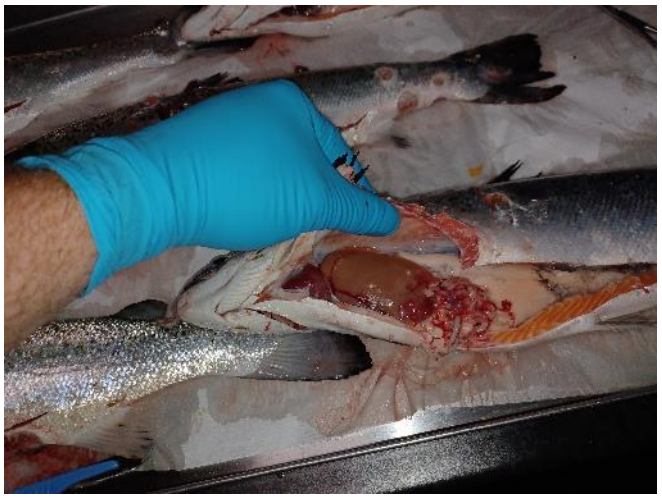

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