Case No:	2024-0207	Date of visit:	03/07/2024
Time spent on site:	7h	Main Inspector:	[redacted]
Site No:	FS0252	Site Name:	Cairidh
Business No:	FB0119	Business Name:	Mowi Scotland Ltd

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

Water Temp (°C): 10.7 Thermometer No: T173 FHI 045 completed

Observations: Region: HI Water type: S CoGP MA: M-28

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:

2022 peaks in salmon mortality, wk 44 6598 (1.42%) mainly transfer losses but some AGD recorded.

2023 peaks in salmon mortality, wk 1 4922 (1.12%) mainly AGD some runts, wk 2 5330 (1.22%) mainly AGD some runts, wk 3 6370 (1.48%) AGD and post hydrolicer, wk 4 4451 (1.05%) mainly post FW treatments losses and also AGD. Site fallow end of wk 9.

2022 peaks in lumpfish mortalities, wk 45 5980 (6.11%) recorded as without diagnosis.

2023 peaks in lumpfish mortalities, wk 2 5716 (4.92%), wk 3 6306 (5.70%) attributed to AGD.

No peaks in wrasse mortalities for period checked.

Some ensiled waste went to Duranta Tees side Ltd some to Whiteshore Cockles

Yersinia ruckeri identified post transfer following FW treatment.

Site was stocked with fish from WRS Corry site (SW to SW transfer), satisfactory risk assessment was available for inspection.

Fish were transferred off to Muck last cycle (SW to SW transfer), satisfactory risk assessment was available.

2023 Q4 stocked into Moal bhan, Cairidh, Sconser Quarry, the site in Scalpay is stocked with 2024 Q2. The area will not be fallowed on a single year class area this cycle but will in the next cycle.

Lumpfish rocket trailed onsite, a rocket shaped hide that can be used in the pens to allow the extraction of lump fish from the crowd prior to treatments.

Only three pens in situ at the time of inspection but the site has permission for five.

No lump fish recorded as being stocked but >20 MVG were noted in pen 16. These must have been transferred in with the stock from Corry, manager is to check with source site.

Case No:	2024-0207	Site No:	FS0252
Date of Visit:	03/07/2024	Inspector(s):	[redacted]

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

Total No facilities		3	Facilities stocked		3	No facilities inspected	
Species	SAL	WRA					
Age group	2023 Q4	wild					
No Fish	342,676	6,001					
Mean Fish Wt	1kg	N/A					
Next Fallow Date (Site)		April 2025	Next Input Date (Site)			May/June 2025	
Recent (last 4 wks) disease problems?			Y	Any escapes (since last visit)?			
If yes, detail:	Yersinia ruckeri						

Movement Records

1. Movement records available for inspection?	
2. Date of last inspection:	15/11/2022
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?	Ensiled - on site
If other detail:	Whiteshore cockles,
3. Mortality records complete and correctly entered?	
4. Recent mortality (last 4 wks):	sal morts 2546/site/last four weeks. WRS morts 279 last four weel
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 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). Yersinia and PRV

Records checked between: 15/11/2022 to 3/7/2024

3

N

Y

N
Y
Y
Y

Y
Y

Y

Y

ks
N

Y

N/A

Y

Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y

Case no:	2024-0207	Site No:	FS0252	Date of visit/ Sampling:	03/07/2024	03/0							
Priority samples:	VI		BA		PA		MG		HI				
Time sampling starts/ends:	12:00:00	14:00:00	Inspector:		VMD No.	16							
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	8-9					
	Pool Group	P1	P1	P1	P1	P1							
Stock Details	Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL					
	Average weight	700g	700g	1kg	500g	400g	1kg	1.1kg					
	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	Corry Farm	Corry Farm	Corry Farm	Corry Farm	Corry Farm	Corry Farm	Corry Farm					
	Facility No	13	13	13	13	13	17	16					

07/2024 Additional Sample Information:

5 Total Tests assigned 2

Case no: 2024-0207 Site No: FS0252 Method of killing: Percussive

Date of visit: 03/07/2024 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										
	Hanging vertical	S	S	S							
	Spiralling										
	Flashing										
	Loss of equilibrium										
Body	Dark				S	S					
	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	0	0	0	0	0					
Internal Signs											
Ascites	Clear										
	Bloody			S							
Oedema	In tissues										
Heart	Pale/anaemic										
	Granulomas										
	Deformed										
Liver	Petechial haem			W							
	Gross haem										
	Tissue breakdown										
	Enlarged										
	Colour number(s)	5	3	5	5	5					
	Granulomas										
	Lesions										
Pyloric caeca	Petechial haem										
	Tubules mauve										
	Lack of fat	M			M	S					
Spleen	Enlarged	S	S	S	S	S					
	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	W	W	W	W	W					
	Liquefied										
General	Parasites present										
	Anaemia										

Case no: 2024-0207

Date of visit: 03/07/2024

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:

Case Number:	2024-0207		Site No:	FS0252	Insp:	
Date of Visit	03/07/2024					

		No of movements/supp./dest.				Score
Live fish movements		**0**	**1-5**	**6-10**	**>10**	
Movements on (from out with GB) of susceptible species	Frequency of movements on from equivalent MS	0	5	10	14	0
	Frequency of movements on from equivalent zone or compartment including third country	0	9	18	26	
	Number of suppliers	0	5	10	14	
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				
	Processing own fish (re-cycling risk)	1				1
	Processing fish from MS of equivalent status	2				
	Processing fish from zone or compartment of equivalent status	4				
	Processing fish from Category III farm	8				
	Processing fish from Category V farm	10				
Disposal of fish and fish by-products	Site's own waste only processed.	0				
	Common processes with other farms	3				3
	Collection point for waste from other farms	5				
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0
	Feeding unpasteurised feed	5				
Biosecurity	**Number of sites**	**1**	**2 or 3**	**≥ 4**		
Contacts with other sites	Sites operating from single shorebase	0	1	2		1
	Sites sharing staff and equipment	0	1	2		
Disinfection of equipment between sites, use of footbaths etc	Yes	0				
	No	1				1
CoGP/Regulator						
Practices in accordance with regulator or industry code of practice	Yes	0				0
	No	3				
Platform access to cages	Yes	0				0
	No	2				

Total	**21**
Rank	**MEDIUM**

Case No: 2024-0207 Site No: FS0252

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?	Y
4. Is there a signed documented farm management agreement or statement relevant to the site and CoGP Farm Management Area (or equivalent)?	Y
5. Are sea lice count records available for inspection? (Legal SSI, CoGP Annex 6)	Y
6. Do records adequately reflect the required standard specified in the SSI and the CoGP? (Legal SSI, CoGP Annex 6)	Y
7. Are sea lice (*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?	N
If yes, have these been reported to the Fish Health Inspectorate? If no, FHI see comment.	N/A
9. Is *C. elongatus* infestation at a level which is considered to cause significant welfare problems? (CoGP 4.3.81, 5.3.50)	N
10. Have therapeutic treatments been administered or other actions taken when *L. salmonis levels* have exceeded the suggested criteria for treatment or where *C. elongatus* is considered to have welfare implications? (CoGP 4.3.82, 5.3.51)	Y
11. Has any other action been taken (where applicable)?	N/A
12. Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded?	Y
13. Are treatments, where conducted, carried out in cooperation between participating farms?	Y
14. Is there a harvesting strategy for the site, where fewer populations or part populations are held without treatment for sea lice?	Y
15. Is there a site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation?	Y
16. Do the sea lice levels observed on stocks reflect sea lice count data? If no please detail reasons.	Y

Containment Inspection

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

Top nets, HDPE nets (Vonin), 12 tonne froya rings, 750kg uplift.

If other, detail below:

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

Case No: 2024-0207 Site No: FS0252

Date of Visit: 03/07/2024 Inspector: [redacted]

Point of Compliance

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

If N, no further questions require completion.

Points of Compliance for Both Farm Management Agreements and Statements

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

Arrangements for Fish Health Management

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

Arrangements for The Management of Sea Lice

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

Live Fish Movements

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

Harvesting

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

Fallowing

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

Point of Compliance for Farm Management Agreements Only

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

Management and operation

25. Is the fish farm being managed and operated in accordance with the agreement or statement?	Y
26. What is the version no/date of issue of the FMAg/S?	05/06/2024

Case No: 2024-0207 Date of visit: 03/07/2024

Site No: FS0252 Inspector: [redacted]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2nd Insp
IHN (PCR) - IHNP	0/5	12/07/2024	[redacted]	12/07/2022	[redacted]	23/07/2024	[redacted]	[redacted]
Salmonid alphavirus (SAV) (PCR) - SALP	0/5	12/07/2024	[redacted]	12/07/2022	[redacted]	23/07/2024	[redacted]	[redacted]
IPN (PCR) - IPNM	0/5	12/07/2024	[redacted]	12/07/2022	[redacted]	23/07/2024	[redacted]	[redacted]
ISA (real time qPCR - heart & kidney) - ISAQ	0/5	12/07/2024	[redacted]	12/07/2022	[redacted]	23/07/2024	[redacted]	[redacted]
Piscine myocarditis virus (CMS) (PCR) - PMVP	0/5	12/07/2024	[redacted]	12/07/2022	[redacted]	23/07/2024	[redacted]	[redacted]
VHS (PCR) - VHSP	0/5	12/07/2024	[redacted]	12/07/2022	[redacted]	23/07/2024	[redacted]	[redacted]
Yersinia ruckeri (ERM) - YRUK	5/5	17/07/2024	[redacted]	17/07/2024	[redacted]	23/07/2024	[redacted]	[redacted]
No significant bacteria (culture) - NSIG	5/5	17/07/2024	[redacted]	17/07/2024	[redacted]	23/07/2024	[redacted]	[redacted]
Piscine reovirus (HSMI) (PCR) - PRVP	5/5	19/07/2024	[redacted]	19/07/2024	[redacted]	23/07/2024	[redacted]	[redacted]
Heart pathology - HPAT	5/5	19/07/2024	[redacted]	19/07/2024	[redacted]	23/07/2024	[redacted]	[redacted]
Kidney pathology - KPAT	5/5	19/07/2024	[redacted]	19/07/2024	[redacted]	23/07/2024	[redacted]	[redacted]
Muscle pathology - MPAT	3/5	19/07/2024	[redacted]	19/07/2024	[redacted]	23/07/2024	[redacted]	[redacted]
Spleen pathology - SPAT	5/5	19/07/2024	[redacted]	19/07/2024	[redacted]	23/07/2024	[redacted]	[redacted]
Piscine reovirus (HSMI) (histology) - PRVH	5/5	19/07/2024	[redacted]	19/07/2024	[redacted]	23/07/2024	[redacted]	[redacted]

Report Summary			
Case Type	Date	Insp	2nd Insp
ECI,CNI,SLI,VMD	15/07/2024	[redacted]	[redacted]
DIA	23/07/2024	[redacted]	[redacted]
Case completion	06/08/2024	[redacted]	[redacted]
		[redacted]	[redacted]
		[redacted]	[redacted]
		[redacted]	[redacted]
		[redacted]	[redacted]
		[redacted]	[redacted]
		[redacted]	[redacted]
		[redacted]	[redacted]
		[redacted]	[redacted]
		[redacted]	[redacted]

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0119	**DATE OF VISIT**	03/07/2024
SITE NO	FS0252	**SITE NAME**	Cairidh
CASE NO	20240207	**INSPECTOR**	[redacted]

Section 1: Summary

On inspection of the site a number of moribund fish were observed in pen 13, five fish were removed for further examination and subsequent diagnostic sampling.

Histopathology examination revealed features of necrotising myocarditis, nephritis and splenitis that could be related to bacterial infection. Occasional/rare bacteria had been observed in kidney, liver and spleen of some fish. Mild, hepatocellular necrosis was also observed.

The myocarditis observed could also be related to the presence of *Piscine orthoreovirus,* which is supported as tissue samples tested positive by qPCR for *Piscine orthoreovirus*, the causative agent of heart and skeletal muscle inflammation (HSMI).

Yersinia ruckeri was isolated on plates. The level and purity of growth would suggest this bacterium is present as a primary pathogen.

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

During a routine site inspection a number of moribund fish were observed, due to the clinical signs of disease and gross pathology observed, diagnostic samples were taken.

F1-F5 were moribund with F1-F3 also hanging vertical in the water column. Externally, F4 and F5 also presented as dark in appearance.

Internally, F3 had bloody ascities and petechial haemorrhaging on the liver. There was a lack of fat on the pyloric caeca of F1, F4 and F5. All five fish had an enlarged spleen and slightly granular kidneys, in addition there was no food in the gut and yellow pseudo faeces were present.

Samples

Samples were collected from F1-F5 fish according to the table below:

Fish number	Facility number	Species	Stage	Origin
F1 - F2	13	Atlantic salmon	700g, 2023 Q4	Corry Farm
F3	13	Atlantic salmon	1kg, 2023 Q4	Corry Farm
F4	13	Atlantic salmon	500g, 2023 Q4	Corry Farm

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/

F5	13	Atlantic salmon	400g, 2023 Q4	Corry Farm

Results

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

The following bacteria were isolated:

- *Yersinia ruckeri:* F1 - F5 (kidney)

The level and purity of growth of *Yersinia ruckeri* would suggest this bacterium is present as a primary pathogen. From the tests conducted, we do not have evidence of resistance to amoxycillin, oxytetracycline, sulphamethoxazole/trimethoprim or florfenicol.

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

Piscine orthoreovirus

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	15.11	28.96	28.94	29.21	**POSITIVE**
F2	14.78	29.28	29.17	28.99	**POSITIVE**
F3	15.68	26.83	26.59	26.45	**POSITIVE**
F4	15.13	26.31	26.07	26.24	**POSITIVE**
F5	15.04	30.31	30.30	30.40	**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).

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

Histopathological examination revealed the following:

Gill: Some lamellar epithelial necrosis (F3) and some lamellar adhesions (F5). Few lamellar telangiectasia with multifocal thrombosis (F2-F4). Free blood among gill filament (F2).

Skin & Muscle: Very mild to mild musculature inflammation (F1, F3). Occasional red muscle fibre necrosis (F5).

Heart: Mild to moderate, diffuse, necrotising myocarditis (F1-F5). Epicarditis, ranging from mild to moderate (F1-F4).

Gut and pyloric caeca: Peritonitis, ranging from mild to marked (F1-F5).

Pancreas: Within the normal range.

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Liver: Hepatocellular necrosis, mild, multifocal (F1, F2) and in F4 necrosis of individual hepatic cells. Occasional Gram-negative bacteria were observed in F1, F3. Some vasculitis observed (F1, F4, F5) and subcapsular haemorrhage, mild, multifocal (F3, F5). Hepatocellular vacuolation (macrovesicles) (F1, F3).

Kidney: Foci of interstitial cell (haematopoietic) necrosis (F2) and some renal tubules displayed necrosis (F3, F4, F5). Occasional Gram-negative bacteria were observed in F1, F2, F3, F4. Some erythrophagocytosis (F1, F3, F4, F5). Some renal tubules displayed hyaline droplets on the epithelium lining I tissue (F3, F4, F5).

Spleen: Necrotising splenitis, multifocal, mild (F1 - F4), chronic with some structures showed centrally splendore-hoeppli reaction (homogeneous eosinophilic material) (F3, F4, F5) and some erythrophagocytosis (F1, F3, F4, F5). Occasional Gram-negative bacteria were observed in F1-F5. Capsulitis (F1-F5).

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

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

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at Fish Health Inspectorate Service Charter - gov.scot (www.gov.scot)

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FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0119	**DATE OF VISIT**	03/07/2024
SITE NO	FS0252	**SITE NAME**	Cairidh
CASE NO	20240207	**INSPECTOR**	[redacted]

Case completion report

Recommendations in relation to the above case were made for implementation by 14/8/2024. Following submission of the required documentation, evidence has now been provided to the Fish Health Inspectorate to demonstrate that the recommendations have been implemented.

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

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

Signed: [redacted] Date: 06/08/2024

Fish Health Inspector

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FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO	FB0119	**DATE OF VISIT**	03/07/2024
SITE NO	FS0252	**SITE NAME**	Cairidh
CASE NO	20240207	**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.

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 found to be inadequately maintained.

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

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- A number of movements offsite had not been recorded in the movement book. These were updated during the inspection therefore no further action is required.

- On inspection of the stocks lumpfish were observed within the pens however, there was no record of these species being stocked on the site.
    - The number of lumpfish on site should be determined and stock records updated, including movement records.

These must be addressed to ensure the conditions of authorisation for your Aquaculture Production Business (APB) are being met. Records or documentation demonstrating that these points have been addressed should be sent to the Fish Health Inspectorate (contact details below) within 30 days of the date this report was issued.

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

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

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

Signed: [redacted] Date: 15/7/2024

Fish Health Inspector

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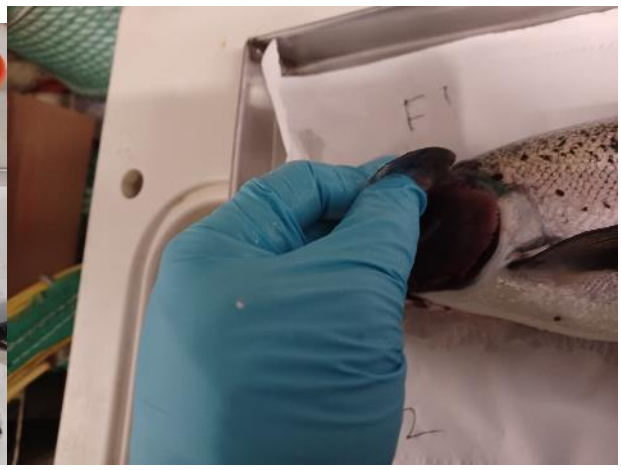
F1-5

F1



F1

F1

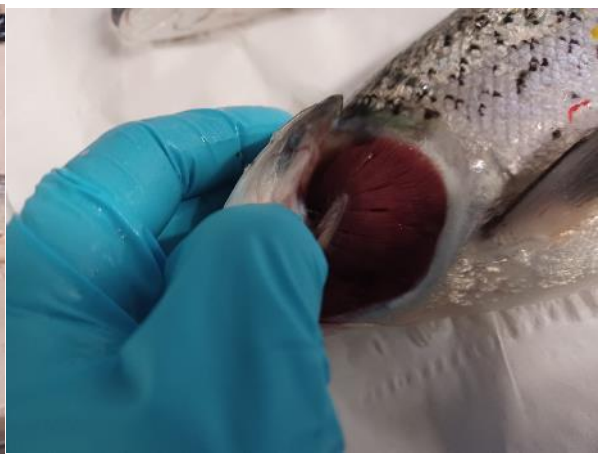
F2

F2

F2

F3

F3



F3

F4

F4

F4

F5

F5

F5