

Case No:	2024-0333	Date of visit:	19/09/2024			
Time spent on site:	4hrs	Main Inspector:				
Site No:	FS1269	Site Name:	Lochailort Recirculation Hatchery			
Business No:	FB0119	Business Name:	Mowi Scotland Ltd			
Case Types:	1 ECS	2 CNI	3 MIX	4	5	6
Water Temp (°C):	14	Thermometer No:	Site	FHI 045 completed	Y	
Observations:	Region:	HI	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?	Y					

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

**Additional Case Information:**

Mortality in the last 4 weeks across populations:

Q4 (last transfer off 17/09/2024) - wk37 935 (0.06%), wk36 1974 (0.09%), wk35 3071 (0.15%), wk34 3449 (0.14%)

Q1 parr - wk37 4659 (0.16%), wk36 4198 (0.14%), wk35 2576 (0.09%), wk34 5204 (0.18%)

Q1 smolt - wk37 2577 (0.31%), wk36 10321 (0.28%), wk35 9277 (0.25%), wk34 16152 (0.44%)

Q2 parr - wk37 3622 (1.6%), wk36 1739 (0.76%), wk35 2295 (1.00%), 2731 (1.17%)

Q1 fry - wk37 7577 (0.21%), wk36 10321 (0.28%), wk35 9277 (0.25%), wk34 16152 (0.44%)

Mortality events (reported to FHI):

26/06/2023 - eggs to first feed; 3.39%, 346226, unviable eggs/poor quality (on site issues with aquagen 15% mort on arrival)

21/08/2023 - 5g to smolt; 1.72%, 28242, fungal infection + treatments with formalin and Cress

Site has been struggling with mild fungal issues and have been conducting weekly treatments with Pyceze and Aquacen. At the time of inspection stock were being treated.

Stock last vaccinated between 12/08/2024 to 29/08/2024

During inspection stock were observed to be shoaling and feeding well. Stock were observed to be in good condition with very few fish seen with fungus. Little number of mort's were observed (mort's where observed in mort collectors).

Due to site temperatures throughout the year being above 14 degrees a 30 fish EC sample was taken. During internal inspection of the sampled fish were observed to be in good condition. P1,P3,P4, P5, P6 sampled by [REDACTED]. P2 sampled by [REDACTED].

Fish health representative conduct fortnightly health checks on stock. Last health check was conducted on the 05/09/2024.

Inspection of site and paperwork conducted/completed by [REDACTED], whilst supervised by [REDACTED]. For the MIX inspection, paperwork and site visit were conducted and completed by [REDACTED], shadowed by [REDACTED].

Case No:

2024-0333

Site No:

FS1269

Date of Visit:

19/09/2024

Inspector(s):

Registration/Authorisation Details

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

Y

2. Changes made to details?

N

Site Details (include cleaner fish for all sections)

Total No facilities	55	Facilities stocked	37	No facilities inspected	37
Species	SAL	SAL	SAL	SAL	
Age group	Q1 2025 Fry	Q2 2025	Q1 2025	Q1 2025	
No Fish	2,558,825	220,000	1,198,332	2,574,144	
Mean Fish Wt	2.5g	21.5g	2.62g	30g	
Next Fallow Date (Site)	never fallow	Next Input Date (Site)	wk 43 October 2024		
Recent (last 4 wks) disease problems?		Y	Any escapes (since last visit)?		N
If yes, detail:	Saprolegnia - fungus				

Movement Records

1. Movement records available for inspection?

Y

2. Date of last inspection:

28/02/2023

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?

Y

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:

3. Mortality records complete and correctly entered?

Y

4. Recent mortality (last 4 wks):

See additional information

5. Evidence of recent increased/atypical mortalities?

N

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

6. Any other peaks in mortality during period checked?

Y

If yes, detail:

Q1 parr - wk25 2.38%, (75307), wk26 2024 3.78% (116788). Morts attributed to Saprolegnia. Fish were 0.45g for these weeks; below threshold.

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:

Aquacen and Cress w/c16/09/2024

If other, detail:

2. Medicines records available for inspection?

Y

3. Are records complete and correctly entered?

Y

4. Are fish in a withdrawal period?

Y

5. If yes, what treatment(s)?

Aquacen, Cress, Pyceze, T.M.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).

enteritis from vaccination and Saprolegnia

Records checked between:

28/02/2023 - 19/09/2024

Case no: 2024-0333 Site No: FS1269 Date of visit/ Sampling: 19/09/2024 19/09/2024

Priority samples: VI BA PA MG HI

Time sampling starts/ends: 11:48:00 12:40:00 Inspector: VMD No. 0

Environmental conditions: 1 Indoors 2 3 4 5

Summary samples HIST BA MG Y VI PA Total Samples

Add Fish/Pools - click

Stock Details	Pool/Fish No	P1	P2	P3	P4	P5	P6						
	Fish nos	1-5	6-10	11-15	16-20	21-25	26-30						
	Pool Group	P1	P2	P3	P4	P5	P6						
	Species	SAL	SAL	SAL	SAL	SAL	SAL						
	Average weight	14.15g	14.15g	14.15g	14.15g	14.15g	14.15g						
	Sex	N/A	N/A	N/A	N/A	N/A	N/A						
	Water Type	FW	FW	FW	FW	FW	FW						
	Stock Origin	Kindrum Hatchery (Ireland/FA00000231)	Kindrum Hatchery (Ireland/FA00000231)	Hollywood Breeding Centre (FS0614)	Hollywood Breeding Centre (FS0614)	Hollywood Breeding Centre (FS0614)	Hollywood Breeding Centre (FS0614)						
	Facility No	43	51	38	38	20	20						

09/2024 Additional Sample Information:

P1,P3,P4, P5, P6 sampled by [REDACTED]. P2 sampled by [REDACTED].

6

Total Tests assigned

3

[illegible]

Case no:	2024-0333	Site No:	FS1269	Method of killing:	Anaesthetic
Date of visit:	19/09/2024	Inspector(s):		Sheet Relevant:	N

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

Fish Number		1-5	6-10	11-15	16-20	21-25	26-30						
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)	5	5	5	5	5	5						
	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					W							
	Grey												
	Granular												
	Liquefied												
General	Parasites present												
	Anaemia												



Additional comments:

Fish 21 in P5 was observed to have a slightly swollen kidney.

Case Number:	2024-0333	Site No:	FS1269	Insp:		
Date of Visit	19/09/2024	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	9
	Number of suppliers	0	5	10	14	5
Movements off	Frequency of movements off	0	3	6	10	10
	Number of destinations	0	3	6	10	6
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				0
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		
	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				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 Rank					30	HIGH

Case No:

2024-0333

Site No:

FS1269

**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 benzoate) as well as access to suitable biological and/or mechanical control measures, and can these be deployed in a reasonable 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 available? (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 (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 of 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)

Site indoors, pest control (rent-o-kill)

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 SSI, 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)

and emamectin	
a period of	
(or	
inspected?	
ove (from w/b	
criteria for	
os during the	
	N
	Y
	N
egal, CoGP –	
y	

Case No: 2024-0333

Date of visit: 19/09/2024

Site No: FS1269

Inspector: [REDACTED]

[illegible][illegible]

# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

**BUSINESS No** FB0119  
**SITE No** FS1269  
**CASE No** 20240333

**DATE OF VISIT** 19/09/2024  
**SITE NAME** Lochailort Recirculation Hatchery  
**INSPECTOR** [REDACTED]

### Statutory test

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

All epidemiological units were inspected.

On this occasion, due to the water temperature being above 14°C, samples were taken to test for the presence of viral haemorrhagic septicaemia virus (VHSV) and infectious haematopoietic necrosis virus (IHNV). The Inspector did not observe any clinical signs associated with the listed diseases as described in the Aquatic Animal Health (Scotland) Regulations 2009.

### Samples

30 Atlantic salmon were tested for the presence of viral haemorrhagic septicaemia virus (VHSV) and infectious haematopoietic necrosis virus (IHNV). Samples were collected according to the table below:

Fish number	Pool number	Facility number	Stage	Origin
1-5	1	43	2025 Q1 Smolt, 30g	Kindrum Hatchery (Ireland/FHA000023IE)
6-10	2	51		
11-15	3	38	2025 Q1 Parr, 2.62g	Holywood Breeding Centre (FS0614)
16-20	4	38		
21-25	5	20	2025 Q1 Fry, 2.5g	Holywood Breeding Centre (FS0614)
26-30	6	20		

The samples tested **negative** for IHNV and VHSV.

### Records

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

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

R16

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 Scotland 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.

**Inspection under the Aquaculture and Fisheries (Scotland) Act 2007**

The site was also inspected in accordance with the Aquaculture and Fisheries (Scotland) Act 2007 with respect to section 5 regarding containment and escapes.

On this occasion the site was found to be satisfactory.

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: 25/09/2024

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