

Case No:

2025-0408

Date of visit:

29/10/2025

Additional inspector(s):

Main Inspector:

Site No:

FS1042

Site Name:

Seaforth

Business No:

FB0119

Business Name:

Mowi Scotland Ltd

Case Types:

1 DIA

2 REP

3

4

5

6

Water Temp (°C):

11.3

Thermometer No:

T309

FHI 045 completed

N/A

Observations:

Region:

WI

Water type: S

CoGP MA: W-6

Dead/weak/abnormally behaving fish present?

 If yes, see additional information/clinical score sheet.

Clinical signs of disease observed?

 If yes, see additional information/clinical score sheet.

Post mortem signs observed?

 If yes, see additional information/clinical score sheet.

Diagnostic samples taken?

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

**Additional Case Information:**

Site visited in response to reports of increased mortality at the site. Seaforth have reported over the 1% mortality threshold at the site between 22/09/25 - 12/10/2025. HSMI and unstable oxygen conditions have been the main drivers for mortality. Company Vet also identified *Pasteurella Skyensis* on 6/10/2025. Some Gill pathology has also been identified between 6th October and 17th October with elevated levels of AGD and PGD noted. Mortality has reduced significantly following treatments but some low level mortality is still presenting in stocks.

Following the increase in mortality at the site, a FW + FLS treatment was conducted between 14/10/2025 - 18/10/2025. Immediately following the FW + FLS an infeed antibiotic treatment (Flofenicol) was administered which was fully completed by 25/10/2025. The site also treated with slice during the week beginning 21/08/2025.

Mortality on site has mainly occurred within pens 5, 6, 7, 8, 10 and 12. During the inspection of the site, moribund fish were clearly visible with approximately 50 - 100 per pen observed in 7, 8, 10 and 12. A healthy population of fish was also clearly visible where the bulk of the population were observed shoaling well and responding positively to routine feeding in every pen.

A 5 fish diagnostic was conducted and fish were removed from pens 8, 10 and 12 which presented the worst in regards to numbers of moribund fish in comparison to the rest of the site.

Wrasse Morts - Week 43 (362, 0.94%), Week 42 (1,078, 2.71%), Week 41 (660, 1.64%), Week 40 (529, 1.27%)



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Main Insp: [REDACTED]

**Registration/Authorisation Details**

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

Y
N

**Site Details (include cleaner fish for all sections)**

Total No facilities	10	Facilities stocked	9	No facilities inspected	10
Species	Atlantic	Wrasse			
Age group	2024 Q4	2025			
No Fish	678 023	38 186			
Mean Fish Wt	3.1kg	300			
Next Fallow Date (Site)	05/2026	Next Input Date (Site)	04/2027		
Recent (last 4 wks) disease problems?		Y	Any escapes (since last visit)?		N
If yes, detail:	Bacterial infection				

**Movement Records**

1. Movement records for **all species** held available for inspection?  
 2. Date of last inspection:  
 3. Are records complete and correctly entered?  
 4. Are movement records available for dead fish and waste?  
 5. Are records complete and correctly entered?  
 6. Have all introductions and imports (since last inspection) from outwith the GB health zone been recorded in the movement records?

Y
07/07/2025
Y
Y
Y
Y

**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 Records**

1. Mortality records for **all species** held available for inspection?  
 2. How are mortalities disposed of?  
 If other detail:  
 3. Mortality records complete and correctly entered?  
 4. Recent mortality (last 4 wks):  
 5. Evidence of recent increased/atypical mortalities?

[REDACTED] Ensiled - on site

[REDACTED] Week 43 (6,246, 0.88%), Week 42 (7,058, 0.86%), Week 41 (52,983, 6.67%),  
[REDACTED] Week 40 (42,206, 4.97%)

Y

Y

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?  
 If yes, detail:  
 7. Have increased (unexplained) mortalities been reported to vet or FHI?  
 If yes, detail action:  
 8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

N

N/A

Y

**Treatments and Medicines Records**

1. Recent treatments (see comment)?					Y
If yes, detail:	Florfenicol	Slice	T.M.S.		
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)?	T.M.S.	Florfenicol	Slice		
If other, detail:					
6. Are medicines stored appropriately?					Y

**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 <i>increased (unexplained)</i> 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 <i>how and when</i> 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?		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).		

See additional information

Records checked between: 07/07/2025 - 29/10/2025

Case no:	2025-0408	Site No:	FS1042	Date of visit/ Sampling:	29/10/2025	30/		
Priority samples:	VI	BA	PA	MG	HI			
Time sampling starts/ends:	12:05:00	13:10:00		Main Insp:		VMD No.		
Environmental conditions:	1 Indoors	2	3	4	5			
Summary samples	HIST	Y	BA	Y	MG	VI	PA	Total Samples

Add Fish/Pools - click button

Pool/Fish No	F1	F2	F3	F4	F4						
Fish nos	1	2	3	4	5						
Pool Group											
Species	SAL	SAL	SAL	SAL	SAL						
Average weight	3.1kg	3.1kg	3.1kg	3.1kg	3.1kg						
Sex	N/A	N/A	N/A	N/A	N/A						
Water Type	SW	SW	SW	SW	SW						
Stock Details											
Stock Origin	Etive 6 (FS1288)										
Facility No	12	10	10	8	8						

10/2025 Additional Sample Information:

5

Total Tests assigned 4

4

Case no: 2025-0408

Site No: FS1042

Method of killing: Percussive

Date of visit: 29/10/2025

Main Insp:

Sheet Relevant: Y

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

Fish Number	F1	F2	F3	F4	F5				
Time sampled after death (if > 45 minutes)			5	20	25	40			
<b>External Signs</b>									
Behaviour	Moribund	M	M	M	M				
	Lethargic	S	S	S	S	S			
	Hanging vertical								
	Spiralling								
	Flashing								
	Loss of equilibrium								
Body	Dark	M	M		M	S			
	Distended abdomen								
	Anorexic								
	Scale Oedema								
Opercula	Shortened								
	Flared								
Haemorrhaging	Throat								
	Ventrum								
	Base of fins								
	Elsewhere								
Eyes	Exophthalmic								
	Enophthalmic (sunken)								
	Cataract								
	Haemorrhagic								
Gills	Pale	W		W					
	Zoned								
	Necrotic								
Lesions	Flank								
	Elsewhere								
Vent	Inflamed			M					
	Trailing faeces								
Lice Load	Estimate numbers	6	4	2	7	0			
<b>Internal Signs</b>									
Ascites	Clear				W				
	Bloody								
Oedema	In tissues								
Heart	Pale/anaemic								
	Granulomas								
	Deformed								
Liver	Petechial haem								
	Gross haem								
	Tissue breakdown								
	Enlarged								
	Colour number(s)	4	5	6	3	4			
	Granulomas								
	Lesions								
Pyloric caeca	Petechial haem								
	Tubules mauve								
	Lack of fat								
Spleen	Enlarged		W						
	Granulomas								
Gut	No food present								
	Yellow pseudo-faeces	M	M	M	M	M			
	External haem								
	Internal haem								
Body wall	Haemorrhaging								
Swim bladder	Haemorrhaging								
	Fluid filled								
Kidney	Swollen								
	Grey								
	Granular								
	Liquefied								
General	Parasites present								
	Anaemia								

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

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 No: 2025-0408

Date of visit: 29/10/2025

Site No: **FS1042**

Main Insp:

# Fish Health Inspectorate visit report

## Summary for information of site operator

Business no:	FB0119	Date of visit:	29/10/2025
Site no:	FS1042	Site name:	Seaforth
Case no:	20250408	Inspector:	[REDACTED]

### Section one: summary

The site was inspected following reports of increased mortality, clinical signs of disease were observed during the inspection and five fish were removed for diagnostic sampling.

Histopathological examination revealed mild gill pathology, potentially associated with complex gill issues. The fish exhibited signs of chronic infection, likely related to a bacterial cause. Minor myocarditis and mild dermatitis were also observed.

One fish tested positive for *Neoparamoeba perurans* (Amoebic gill disease), five fish tested positive for *Paranucleospora theridion*, two fish tested positive for piscine myocarditis virus and four fish tested positive for Salmon gill poxvirus by qPCR.

*Pasturella skyensis* was identified as a primary fish pathogen, this bacterium would be implicated in the morbidity of fish 3 and 4 and pose an overall risk to the health of the fish population. *Vibrio spp.* were also identified, the level and purity of growth would suggest this bacterium may be implicated in morbidity of fish 5.

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

R09

## Section two: case detail

### Observations

The site was visited in response to reports of increased mortality. Seaforth have been over the 1% mortality reporting threshold at the site between 22/09/25 - 12/10/2025 where HSMI and unstable oxygen conditions have been the main drivers for mortality. Company vet also identified *Pasteurella Skyensis* on 6/10/2025. Some gill pathology has also been identified between 06/10/25 – 17/10/2025.

At the time of inspection, mortality had reduced significantly following treatments but some low level mortality is still presenting in stocks. The site was stocked with 678,023 fish at an average weight of 3.1kg. Mortality on site has mainly occurred within pens 5, 6, 7, 8, 10 and 12. During the inspection of the site, moribund fish were clearly visible with approximately 50 - 100 per pen observed in 7, 8, 10 and 12. Five Fish were removed for diagnostic sampling.

The fish selected for sampling all presented lethargic and moribund prior to removal. Externally, F1, F2, F4 & F5 had a darkened body colour.

Internally, the gills of F1 and F5 were pale, F5 also presented with an inflamed vent. F3 had a dark liver and enlarged spleen and F5 had clear ascites . All fish had yellow pseudo – faeces within the hind gut.

### Samples

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

Fish number	Facility number	Species	Stage	Origin
F1	12	Atlantic salmon	2024 Q4	Etive 6 (FS1288)
F2 - F3	10	Atlantic salmon	2024 Q4	Etive 6 (FS1288)
F4 – F5	8	Atlantic salmon	2024 Q4	Etive 6 (FS1288)

### Results

#### Bacteriology:

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

R09

The following bacteria were isolated:

*Pasturella skyensis* : F1 – F5 (Kidney)

*Vibrio* sp. : F4 & F5 (Kidney)

*Vibrio* spp: F1 – F5 (Gill)

### 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 myocarditis virus (PMCV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1		-	-	-	negative
F2		-	-	-	negative
F3		-	-	-	negative
F4	16.76	16.80	16.91	16.83	POSITIVE
F5	17.41	22.39	22.52	22.51	POSITIVE

#### Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.99	37.75	38.08	40	POSITIVE
F2	22.06	40	40	40	POSITIVE
F3	22.33	30.91	30.93	30.97	POSITIVE
F4	21.66	24.66	24.68	24.76	POSITIVE
F5		-	-	-	negative

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).

### Parasitology:

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

R09

UKAS Accredited Inspection Body - Type C No. 0269

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

Telephone – 0131 244 3498

Email – [ms.fishhealth@gov.scot](mailto:ms.fishhealth@gov.scot)

[Fish Health Inspectorate Website](#)

*Neoparamoeba perurans* (AGD)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1		-	-	-	negative
F2		-	-	-	negative
F3		-	-	-	negative
F4	21.66	35.95	36.70	35.58	POSITIVE
F5		-	-	-	negative

*Paranucleospora theridion*

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.99	35.93	36.10	36.81	POSITIVE
F2	22.06	37.73	38.01	37.81	POSITIVE
F3	22.33	34.95	35.24	35.07	POSITIVE
F4	21.66	34.80	34.98	35.37	POSITIVE
F5	21.73	35.01	35.47	35.39	POSITIVE

**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:** Filament banchitis, mild (F1), lamellar hyperplasia, mild, multifocal (F1-F5), and adhesions, mild, multifocal (F1, F2, F3, F4) and F5 also exhibited lamellar inflammation, few basophilic epithelial inclusions (likely epitheliocystis) (F1, F3). F3 displayed debris among gill filaments with bacteria. Several aneurysmal dilation/telangiectasia (F5).

**Skin & Muscle:** Small area of cellular inflammation observed in the red musculature (F3) and F5, dermatitis, mild.

**Heart:** Myocarditis, minor up to mild, multifocal (F1, F2, F4, F5) and F3 exhibited minimal myocarditis. F5 displayed some endocarditis. Epicarditis, mild (F1, F2, F4-F5). F4 displayed small area with Gram-negative bacteria.

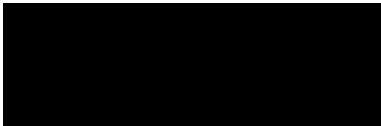
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**Gut and pyloric caeca:** Peritonitis, mild (F1-F5). F3: almost no pyloric caeca tissue present.

**Pancreas:** Within the normal range.

**Liver:** Vasculitis, mild (F1-F4). Hepatocellular necrosis, mild, multifocal (F4). Hepatocellular vacuolation (macrovesicles), some, diffuse (F1). F5 displayed a granulomatous reaction close to one.

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

Signed: 

Date: 05/12/2025

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 \(www.gov.scot\)](https://www.gov.scot)

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