

| | | | | | | |
|---|-----------|--|------------------------|-------------------|----------|------|
| Case No: | 2025-0272 | Date of visit: | 17/07/2025 | | | |
| Additional inspector(s): | | Main Inspector: | | | | |
| Site No: | FS0696 | Site Name: | Fiunary | | | |
| Business No: | FB0125 | Business Name: | Scottish Sea Farms Ltd | | | |
| Case Types: | 1 STI | 2 DIA | 3 | 4 | 5 | 6 |
| Water Temp (°C): | 14.1 | Thermometer No: | T172 | FHI 045 completed | N | |
| Observations: | Region: | HI | Water type: | S | CoGP MA: | M-35 |
| Dead/weak/abnormally behaving fish present? | Y | If yes, see additional information/clinical score sheet. | | | | |
| Clinical signs of disease observed? | Y | If yes, see additional information/clinical score sheet. | | | | |
| Post mortem signs observed? | Y | If yes, see additional information/clinical score sheet. | | | | |
| Diagnostic samples taken? | Y | | | | | |

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

Additional Case Information:

Inspection undertaken following confirmation of clinical BKD at a site within one tidal excursion, Fishnish (A) (FS0427)

Wild wrasse on site at the time of inspection

Winter sores (*Moritella viscosa*) detected after input together with *Vibrio* sp. Mortality did not exceed notifiable criteria although there was a small increase in mortality in wk 16. Report from vet observed. Fish fed with Biomar "Assist skin" to reduce affects, this was reportedly successful.

Most recent histo report from inspection on 30/06/2025. Only pathology was mild heart (mostly mild epicarditis) and gill pathology (mostly mild lamellar branchitis), possibly indicative of a mild viral infection, reportedly. No signs consistent with BKD noted.

Ten moribund fish observed within the cages were removed. Five were taken for diagnostic sampling

Freshwater treatment used from 08/07/25 to 11/07/25 to treat gill issues as gill scores rose slightly

Case No: 2025-0272

Site No: FS0696

Date of Visit: 17/07/2025

Main Insp:

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 | 8 | Facilities stocked | 7 | No facilities inspected | 8 |
| Species | Atlantic salmon | WRS | | | |
| Age group | S1 25 | Mixed | | | |
| No Fish | 571,437 | 14,766 | | | |
| Mean Fish Wt | 926g | Mixed | | | |
| Next Fallow Date (Site) | Q3 2026 | Next Input Date (Site) | Q1 2027 | | |
| Recent (last 4 wks) disease problems? | | N | Any escapes (since last visit)? | | N |
| If yes, detail: | | | | | |

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 the movement records?

Y
20/05/2024
Y
N/A
N/A
N/A

Transport Records

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

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

Incinerated - on site

SAL: wk 29: 386 fish (0.07%), wk 28: 621 fish (0.11%), wk 27: 382 fish (0.07%),
wk 26: 420 fish (0.07%). WRS: wk 29: 160 fish (1.42%), wk 28: 122 fish
(0.79%), wk 27: 146 fish (1.4%), wk 26: 337 fish (1.84%).

6. Any other peaks in mortality during period checked?

If yes, detail:

CMS detected in last cycle, Aug 2024. Mortality peaked at 1.81% in wk 33 due to this. Mortality above notifiable criteria in wk 30, 32, 33 and wk 34 due to same pathogen. Exceeded criteria again in wk 41 for 1 week due to CMS again

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)?

Y

If yes, detail:

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.

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 *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?

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).

CMS - see above

Records checked between:

20/05/2024 - 17/07/2025

Case no:

2025-0272

Site No:

FS0696

Date of visit/
Sampling:

17/07/2025

17/07/2025

Priority samples:

VI

BA

PA

MG

HI

Time sampling
starts/ends:

14:00:00

15:00:00

Main Insp:

VMD No.

0

Environmental conditions:

1

Windy

2

Wet

3

4

5

Summary samples

HIST

Y

BA

Y

MG

Y

VI

PA

Total Samples

Add Fish/ Pools - click button

| | | | | | | | | | | | | | |
|---------------|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|--|--|--|--|--|--|--|
| | Pool/Fish No | F1 | F2 | F3 | F4 | F5 | | | | | | | |
| | Fish nos | 1 | 2 | 3 | 4 | 5 | | | | | | | |
| | Pool Group | | | | | | | | | | | | |
| Stock Details | Species | SAL | SAL | SAL | SAL | SAL | | | | | | | |
| | Average weight | 900g | 900g | 800g | 400g | 800g | | | | | | | |
| | Sex | | | | | | | | | | | | |
| | Water Type | SW | SW | SW | SW | SW | | | | | | | |
| | | Barcaldine (FS1325) | Barcaldine (FS1325) | Barcaldine (FS1325) | Barcaldine (FS1325) | Barcaldine (FS1325) | | | | | | | |
| | Stock Origin | | | | | | | | | | | | |
| | Facility No | 7 | 7 | 4 | 4 | 8 | | | | | | | |

07/2025

Additional Sample Information:

Extra histo sample for the lesion on F5. Some bacteriology plates split it two due to lack of plates. F1 and F5 exhibited pale gills so extra samples submitted for gill analysis.

5

Total Tests assigned

5

[illegible]

| | | | | | |
|----------------|------------|------------|--------|--------------------|------------|
| Case no: | 2025-0272 | Site No: | FS0696 | Method of killing: | Percussive |
| Date of visit: | 17/07/2025 | Main Insp: | | 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) | | | | 1 hour | 1 hour | 1 hour | | | | | | | | |
| 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 | | | | S | | | | | | | | | |
| | Scale Oedema | | | | | | | | | | | | | |
| Opercula | Shortened | | | | | | | | | | | | | |
| | Flared | | | | | | | | | | | | | |
| Haemorrhaging | Throat | | | | | | | | | | | | | |
| | Ventrum | | | | | | | | | | | | | |
| | Base of fins | | | | | | | | | | | | | |
| | Elsewhere | | | | | | | | | | | | | |
| Eyes | Exophthalmic | | | | | | | | | | | | | |
| | Enophthalmic (sunken) | | | | | | | | | | | | | |
| | Cataract | | | | | | | | | | | | | |
| | Haemorrhagic | | | | | | | | | | | | | |
| Gills | Pale | M | | | | M | | | | | | | | |
| | Zoned | | | | | | | | | | | | | |
| | Necrotic | | | | | | | | | | | | | |
| Lesions | Flank | | | | | M | | | | | | | | |
| | Elsewhere | | | | | | | | | | | | | |
| Vent | Inflamed | | | | | | | | | | | | | |
| | Trailing faeces | | | | | | | | | | | | | |
| Lice Load | Estimate numbers | | | | 3 | 2 | | | | | | | | |
| | | | | | | | | | | | | | | |
| Internal Signs | | | | | | | | | | | | | | |
| Ascites | Clear | | W | | | | | | | | | | | |
| | Bloody | | | | | | | | | | | | | |
| Oedema | In tissues | | | | | | | | | | | | | |
| Heart | Pale/anaemic | | | | | | | | | | | | | |
| | Granulomas | | | | | | | | | | | | | |
| | Deformed | | | | | | | | | | | | | |
| Liver | Petechial haem | | | | | | | | | | | | | |
| | Gross haem | | | | | | | | | | | | | |
| | Tissue breakdown | | | | | | | | | | | | | |
| | Enlarged | | | | | | | | | | | | | |
| | Colour number(s) | 4 | 4 | 4 | 3 | 4 | | | | | | | | |
| | Granulomas | | | | | | | | | | | | | |
| | Lesions | | | | | | | | | | | | | |
| Pyloric caeca | Petechial haem | | | | | | | | | | | | | |
| | Tubules mauve | | | | | | | | | | | | | |
| | Lack of fat | M | M | M | S | M | | | | | | | | |
| Spleen | Enlarged | | | | | | | | | | | | | |
| | Granulomas | | | | | | | | | | | | | |
| Gut | No food present | M | M | M | M | M | | | | | | | | |
| | Yellow pseudo-faeces | M | M | M | M | M | | | | | | | | |
| | External haem | | | | | | | | | | | | | |
| | Internal haem | | | | | | | | | | | | | |
| Body wall | Haemorrhaging | | | | | | | | | | | | | |
| Swim bladder | Haemorrhaging | | | | | | | | | | | | | |
| | Fluid filled | | | | | | | | | | | | | |
| Kidney | Swollen | | | | W | | | | | | | | | |
| | Grey | W | | | | | | | | | | | | |
| | Granular | | | | | | | | | | | | | |
| | Liquefied | | | | | | | | | | | | | |
| General | Parasites present | | | | | | | | | | | | | |
| | Anaemia | | | | | | | | | | | | | |

Date of visit: 17/07/2025

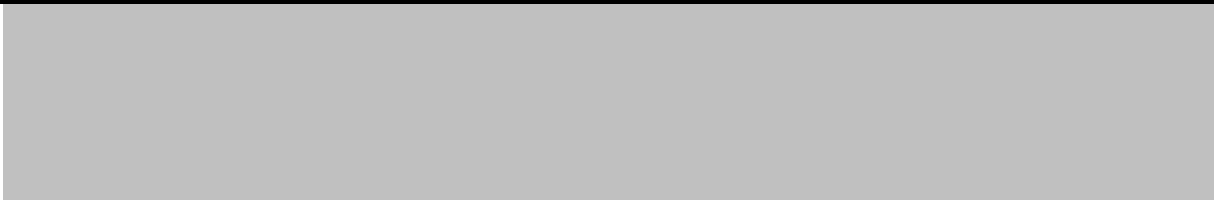
S for strong presence: **M** for medium presence: **W** for weak presence

| | | | | | | | | | | |
|--|-----------------------|--|--|--|--|--|--|--|--|--|
| 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:

Yellow liquid in gall bladder released during sampling of F1, F2 and F3. F3 has a dark hind gut on the outside

| |
|---|
| Site No: FS0696 |
| Case No: 2025-0272 |
| Nature of non-compliance: |
| Action taken (FHI): |
| Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology |



Case No: 2025-0272

Date of visit: 17/07/2025

Site No: FS0696

Main Insp: [REDACTED]

| Results Summary | Freq. | Date of Notification | | | | | | |
|-----------------|-------|----------------------|------|------------|------|------------|------|----------------------|
| | | Database | Insp | Phone | Insp | Writing | Insp | 2 nd Insp |
| MG BKD | 0/5 | 22/07/2025 | | 22/07/2025 | | 19/08/2025 | | |
| MG IHNQ | 0/5 | 23/07/2025 | | 23/07/2025 | | 19/08/2025 | | |
| MG IPN | 0/5 | 23/07/2025 | | 23/07/2025 | | 19/08/2025 | | |
| MG ISA | 0/5 | 23/07/2025 | | 23/07/2025 | | 19/08/2025 | | |
| MG PMCV | 0/5 | 23/07/2025 | | 23/07/2025 | | 19/08/2025 | | |
| MG SAV | 0/5 | 23/07/2025 | | 23/07/2025 | | 19/08/2025 | | |
| MG VHS | 0/5 | 23/07/2025 | | 23/07/2025 | | 19/08/2025 | | |
| MG AGD | 0/2 | 23/07/2025 | | 23/07/2025 | | 19/08/2025 | | |
| MG PARA THER | 2/2 | 23/07/2025 | | 23/07/2025 | | 19/08/2025 | | |
| MG SAL POX | 1/2 | 23/07/2025 | | 23/07/2025 | | 19/08/2025 | | |
| PRV PCR | 5/5 | 30/07/2025 | | 30/07/2025 | | 19/08/2025 | | |
| PMCH | 5/5 | 04/08/2025 | | | | 19/08/2025 | | |
| HPAT | 4/5 | 04/08/2025 | | 06/08/2025 | | 19/08/2025 | | |
| KPAT | 2/5 | 04/08/2025 | | 06/08/2025 | | 19/08/2025 | | |
| SKIN | 2/5 | 04/08/2025 | | 06/08/2025 | | 19/08/2025 | | |
| VSPE (A) | 1/5 | 06/08/2025 | | 06/08/2025 | | 19/08/2025 | | |
| VSPE (B) | 2/5 | 06/08/2025 | | 06/08/2025 | | 19/08/2025 | | |
| UBAC | 2/5 | 06/08/2025 | | 06/08/2025 | | 19/08/2025 | | |
| PRV Histology | 4/5 | 01/08/2025 | | 06/08/2025 | | 19/08/2025 | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Report Summary | | | |
|----------------|------------|------|----------------------|
| Case Type | Date | Insp | 2 nd Insp |
| STI | 29/07/2025 | | |
| DIA | 19/08/2025 | | |
| STI (Re-issue) | 15/08/2025 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|------------|
| BUSINESS No | FB0125 | DATE OF VISIT | 17/07/2025 |
| SITE No | FS0696 | SITE NAME | Fiunary |
| CASE No | 20250272 | INSPECTOR | ██████████ |

Amended Fish Health Inspectorate Visit Report

This report replaces the fish health report R22 issued on 29/07/2025 by ██████████. The previous report should be discarded. The wording of the 3rd paragraph has changed.

The above site was inspected as it is located within one tidal excursion of a site where the presence of clinical bacterial kidney disease (BKD) has been confirmed. A visit has been arranged to confirm or rule out the presence of clinical BKD at this site.

All epidemiological units were inspected. Signs consistent with the presence of clinical BKD were observed and samples were taken for diagnostic purposes. Samples tested negative for the presence of *Renibacterium salmoninarum* (the causative agent of BKD) by PCR, therefore, the Initial Designation Notice (IDN) covering the site has been withdrawn. If, in the future, clinical signs of BKD are observed on the site, the Fish Health Inspectorate must be informed immediately.

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

Signed: ██████████

Fish Health Inspector

Date: 13/08/2025

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/)

R22



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|--------------------|----------|----------------------|------------|
| BUSINESS No | FB0125 | DATE OF VISIT | 17/07/2025 |
| SITE No | FS0696 | SITE NAME | Fiunary |
| CASE No | 20250272 | INSPECTOR | |

Section 1: Summary

During a statutory inspection of the stock, clinical signs of disease were observed and five fish were removed for diagnostic sampling.

Histopathological examination revealed mild inflammation of the heart and degeneration of the compact layer of the cardiac musculature. This cardiac inflammation could be associated with a sub-clinical viral infection, most likely related to piscine reovirus (PRV) which was confirmed by QPCR. In the kidney, mild, multifocal necrosis was observed. One fish exhibited signs of cachexia and two fish displayed mild dermatitis. Evaluation of the gill tissue was hindered due to post-mortem artefacts, limiting interpretation.

From bacteriology, two separate *Vibrio* spp. were identified. The level and purity of growth would not suggest these bacteria would be present as primary pathogens.

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

On 15/07/2025, the listed disease bacterial kidney disease (BKD) was confirmed at a nearby site. As Fiunary is within one tidal excursion (7.258km), a statutory inspection was carried out to rule out or confirm the presence of BKD.

Mortality in the four weeks prior to the inspection was relatively low. An inspection by a vet 17 days before the FHI inspection identified some mostly mild pathology affecting the hearts and gills. Winter sores (causative agent *Moritella viscosa*) were observed on the site shortly after input. *Vibrio* sp. was also identified in the population.

A freshwater treatment was carried out in July 2025 after gill scores rose slightly. The treatment was reportedly effective at reducing gill scores.

During the inspection of stock, ten moribund and lethargic fish were removed from the cages, and five of these were selected for diagnostic sampling.



The external signs of disease and gross pathology for these fish are listed below:

F1: Moribund, lethargic, pale gills, slightly grey kidney, lack of fat associated with the pyloric caeca, no food in the gut and yellow pseudo faeces present.

F2: Moribund, lethargic, a small amount of clear ascites observed internally, lack of fat associated with the pyloric caeca, no food in the gut and yellow pseudo faeces present.

F3: Moribund, lethargic, lack of fat associated with the pyloric caeca, no food in the gut and yellow pseudo faeces present.

F4: Moribund, lethargic, anorexic, a slightly pale liver, slightly swollen kidney, lack of fat associated with the pyloric caeca, no food in the gut and yellow pseudo faeces present.

F5: Moribund, lethargic, pale gills, lesions on the flank, lack of fat associated with the pyloric caeca, no food in the gut and yellow pseudo faeces present.

Samples

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

| Fish number | Facility number | Species | Stage | Origin |
|-------------|-----------------|---|----------------------------|---|
| F1 & F2 | 7 | Atlantic salmon (<i>Salmo salar</i>) | Grower ~900g 2025 S1 | Barcaldine First Feeding Unit (FS1325) |
| F3 & F4 | 4 | Atlantic salmon (<i>Salmo salar</i>) | Grower ~900g 2025 S1 | Barcaldine First Feeding Unit (FS1325) |
| 5 | 8 | Atlantic salmon (<i>Salmo salar</i>) | Grower ~900g 2025 S1 | Barcaldine First Feeding Unit (FS1325) |

Results

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

It should be noted that the standard test for BKD is carried out using qPCR, therefore, no specialised media for the growth of *Renibacterium salmoninarum* was used.

The following bacteria were isolated:

- *Vibrio* sp.: F2 and F4 (kidney)
- *Vibrio* sp.: F1 & F5 (kidney); F5 (lesion)
- Unidentified bacteria: F3 & F5 (kidney); F5 (lesion). This bacterium was not fully identified but did not match the characteristics of a known fish pathogen.

Tissue samples were tested for segments of nucleic acid indicative of the presence of *Renibacterium salmoninarum* (the causative agent of BKD) using real-time PCR (qPCR). The samples tested negative for the pathogen.

R09



Virology: Tissue samples were tested for segments of nucleic acid indicative of the presence of the pathogens specified below using real-time PCR (qPCR). Gill pathology was observed in F1 and F5 so these fish were sampled for salmon gill poxvirus (SGPV), *Paranucleospora theridion*, and *Neoparamoeba perurans* (AGD).

SGPV

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|-------------|-----------------------------|-----------|-------|-------|-----------------------|
| F1 | - | - | - | - | Negative |
| F5 | 20.18 | 36.41 | 36.28 | 37.41 | POSITIVE |

Piscine reovirus (PRV)

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|-------------|-----------------------------|-----------|-------|-------|-----------------------|
| F1 | 18.29 | 21.75 | 21.79 | 21.90 | POSITIVE |
| F2 | 18.40 | 20.93 | 21.32 | 21.29 | POSITIVE |
| F3 | 17.61 | 18.64 | 18.54 | 18.76 | POSITIVE |
| F4 | 18.48 | 26.80 | 26.88 | 26.76 | POSITIVE |
| F5 | 18.54 | 22.66 | 22.99 | 23.09 | POSITIVE |

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), infectious pancreatic necrosis virus (IPNV), infectious salmon anaemia virus (ISAV), piscine myocarditis virus (PMCV), 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).

Paranucleospora theridion

| Fish Number | Endogenous control Cp value | Cp Values | | | Reported Result (PCR) |
|-------------|-----------------------------|-----------|-------|-------|-----------------------|
| F1 | 20.27 | 36.43 | 34.64 | 35.49 | POSITIVE |
| F5 | 20.18 | 36.15 | 35.94 | 37.66 | POSITIVE |

The samples tested negative for *Neoparamoeba perurans* (AGD).



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: Post-mortem artefacts (F1-F5) with F2 and F3 exhibiting several aneurysmal dilation/telangiectasia - these artefacts hindered reading.

Skin & Muscle: Mild dermatitis (F2, F5), with Gram-negative bacteria (F2).

Heart: Myocarditis, mild, multifocal (F1, F3, F5), endocarditis, mild, multifocal (F1, F3). F1 and F5 also exhibited musculature degeneration at the compact layer. Epicarditis, mild (F1-F3, F5).

Gut and pyloric caeca: F4 exhibited an absence of abdominal adipose tissue and some peritonitis. Post-mortem artefacts marked (F1, F2, F4, F5).

Pancreas: Within the normal range.

Liver: Hepatocellular vacuolation (macrovesicles) (F2) and areas of pyknotic nuclei (F5).

Kidney: Areas of interstitial necrosis were observed in the haematopoietic tissue (F1), F4 showed a slight increase in melanomacrophages.

Spleen: Some perivascular cuffing was observed (F4) and F2 slightly congested.

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

Signed:

Date: 19/08/2025

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



Fish 1 – 5. Eye damage in F1, F2 and F5 caused by percussive method of dispatch