

Case No:	2025-0337		Date of visit:	28/08/2025		
Additional inspector(s):			Main Inspector:			
Site No:	FS1361	Site Name:	Applecross Smolt Ongrowing 2			
Business No:	FB0169	Business Name:	Bakkafrost Scotland			
Case Types:	1 REP	2 DIA	3	4	5	6
Water Temp (°C):	14.5	Thermometer No:	Site	FHI 045 completed	Y	
Observations:	Region:	HI	Water type:	F	CoGP MA:	
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:

Site inspected following recent elevated mortalities were reported to the FHI, these were attributed to bacterial disease and water quality issues.

Mortalities for the last four weeks: wk 32 33069 (3.22%), wk 33 50171 (5.06%), wk 34 28167 (3%) Wk 35 5566 (to date of inspection).

The site has reported a number of mortality events since the last inspection on the 10/3/2025, these are: wk 12 5235 (1.88%) fungus and FHI diagnostic samples identifies *Aeromonas salmonicida pectinolytica*, wk 14 4094 (1.53%), wk 16 13471 (5.36%), wk 17 3079 (4.04%) all reported as physical handling losses. Wk 19 9076 (5.08%), wk 20 8022 (4.73%) both reported as transfer losses. Wk 22 20438 (2.02%) physical post grade damage. Wk 24 21126 (1.79%), wk 25 38723 (3.35%) both physical post grade damage. Wk 27 16424 (3.22%) bacterial disease and fungus.

Furunculosis was isolated in May, by water EDNA, fish PCR, Bacteriology plates, site was screened as furunculosis was picked up in another unit. Water quality issues has resulted in the increased mortality. Site is split on two separate RAS units, tanks 1 and 2 initially had the increased mortality then settled, Tanks three and four ~ a week later increased. Antibiotics were administered in a staggered manner due to having to mix the feed on site. Started in wk 32 in tanks 1 and 2 then wk 33 tanks 3 and 4 started treatment. Treatments were for 10 days and were of florocol. Mortalities for the week of inspection have reduced considerably.

There was a couple of runty fish observed in the tanks but overall the fish were shoaling well, a couple of lethargic fish were removed for further examination and diagnostic sampling.

Week 15 mortality event of 10564 (4.02%) was not reported.

Site thermometer used due to biosecurity.

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Main Insp:

Registration/Authorisation Details

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

Y

Y

Site Details (include cleaner fish for all sections)

Total No facilities	4	Facilities stocked	4	No facilities inspected	4
Species	Atlantic salmon				
Age group	2025 Q3				
No Fish	910,000				
Mean Fish Wt	246g				
Next Fallow Date (Site)	Early September	Next Input Date (Site)	TBC		
Recent (last 4 wks) disease problems?		Y	Any escapes (since last visit)?		N
If yes, detail:	Furunculosis				

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

10/03/2025

Y

Y

Y

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?

Y

Y

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:

Y

Whole fish - Dundas Chemicals

Y

see additional information

Y

see additional information

6. Any other peaks in mortality during period checked?
- If yes, detail:

Y

see additional information

7. Have increased (unexplained) mortalities been reported to vet or FHI?
- If yes, detail action:

N/A

8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

N

Treatments and Medicines Records

1. Recent treatments (see comment)?

Y

If yes, detail:

Florfenicol

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)?

Florfenicol

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).

Records checked between:

10/3/2025 to 28/8/2025

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2025-0337

Site No:

FS1361

Date of visit/
Sampling:

28/08/2025

28/08/2025

Priority samples:

VI

BA

PA

MG

HI

Time sampling
starts/ends:

10:30:00

11:00:00

Main Insp:

VMD No.

0

Environmental conditions:

1

Indoors

2

3

4

5

Summary samples

HIST

Y

BA

Y

MG

Y

VI

PA

Y

Total Samples

Add Fish/Pools - click button

	Pool/Fish No	F1	F2										
	Fish nos	1	2										
	Pool Group												
Stock Details	Species	SAL	SAL										
	Average weight	250g	80g										
	Sex	N/A	N/A										
	Water Type	FW	FW										
		Applecross smolt unit 2 FS1362	Applecross smolt unit 2 FS1362										
	Stock Origin												
	Facility No	1	1										

03/2025 Additional Sample Information:

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2

Total Tests assigned

4

[illegible]

Method of killing:	Anaesthetic
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Sheet Relevant: ☒

Fish Number														
Time sampled after death (if > 45 minutes)														
External Signs														
Behaviour	Moribund													
	Lethargic	W	W											
	Hanging vertical													
	Spiralling													
	Flashing													
	Loss of equilibrium													
Body	Dark	M	M											
	Distended abdomen													
	Anorexic		M											
	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)	4	4											
	Granulomas													
	Lesions													
Pyloric caeca	Petechial haem													
	Tubules mauve													
	Lack of fat		M											
Spleen	Enlarged													
	Granulomas													
Gut	No food present													
	Yellow pseudo-faeces													
	External haem													
	Internal haem													
Body wall	Haemorrhaging													
Swim bladder	Haemorrhaging													
	Fluid filled													
Kidney	Swollen													

Date of visit: 28/08/2025

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:

Site No: FS1361
Case No: 2025-0337
Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology



28/08/2025

[illegible]

If unexplained, enter observations:	Total mortality during event (if available):	Additional information (e.g. action taken by company):	Action taken by FHI (include case no where applicable):	Yearclass Year
	10564		Historic mortality event picked up through a site inspection	2025

Case No:

2025-0337

Date of visit:

28/08/2025

Site No:

FS1361

Main Insp:

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
Gyrodactylus salaris - GSAL	0/2	29/08/2025		29/08/2025				
AGD (Neoparamoeba perurans) (PCR) - AGDQ	0/2	01/09/2025		02/09/2025				
IHN (PCR) - IHNP	0/2	02/09/2025		02/09/2025				
IPN (virus isolation) - IPNV	1/2	02/09/2025		02/09/2025				
Salmonid alphavirus (SAV) (PCR) - SALP	0/2	02/09/2025		02/09/2025				
VHS (PCR) - VHSP	0/2	02/09/2025		02/09/2025				
Salmon gill poxvirus (PCR) - SPVP	1/2	01/09/2025		02/09/2025				
Paranucleospora theridion (PCR) - PNST	0/2	01/09/2025		02/09/2025				
Adhesions- histo	1/2	05/09/2025		08/09/2025				
Gill pathology	1/2	05/09/2025		08/09/2025				
Kidney pathology	1/2	05/09/2025		08/09/2025				
Heart pathology - HPAT	1/2	08/09/2025		08/09/2025				
No significant bacteria (culture) - NSIG	1/2	10/09/2025		11/09/2025				
Pseudomonas spp - PSPE	1/2	10/09/2025		11/09/2025				
Pseudomonas fluorescens - PSFL	2/2	10/09/2025		11/09/2025				

Report Summary			
Case Type	Date	Insp	2 nd Insp
REP	05/09/2025		
DIA	18/09/2025		



F1 and F2



F1



F1



F2



F2



Fish Health Inspectorate visit report

Summary for information of site operator

Business no:	FB0169	Date of visit:	28/08/2025
Site no:	FS1361	Site name:	Applecross Smolt Ongrowing 2
Case no:	20250337	Inspector:	[REDACTED]

Summary

The site was inspected following reports of elevated mortalities, on inspection of the stock a couple of lethargic fish were observed and removed for further examination and subsequent diagnostic sampling.

Histopathological analysis revealed marked peritonitis potentially associated to vaccine administration. Very mild gill and heart pathology were observed.

Infectious pancreatic necrosis virus (IPNV) was detected in one fish by qPCR. The significance of this result is unclear as no associated pathology was observed and the fish have been vaccinated.

One fish tested positive for salmon gill poxvirus (SGPV) via PCR.

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

Case detail

Observations:

Elevated mortalities were first reported to the fish health inspectorate w/b 11/8/2025. In total 116,973 were recorded to the date of inspection on the 28/8/2025, these were attributed to water quality issues and furunculosis. By the time of the inspection numbers had significantly reduced.

On inspection of the stock the fish were shoaling well however there were a few runts and lethargic fish noted. Two were removed for diagnostic sampling.

Externally both fish appeared dark, F2 was anorexic and also lacked fat on the pyloric caeca.

R09

Samples

Samples were collected from F1 and F2 according to the table below:

Fish number	Facility number	Species	Stage	Origin
F1	1	Atlantic salmon	250g 2025 Q3	Applecross Smolt Unit 2 (FS1362)
F2	1	Atlantic salmon	80g 2025 Q3	Applecross Smolt Unit 2 (FS1362)

Results

Bacteriology:

Kidney, gill and spleen material from F1 and F2 were inoculated onto appropriate media for the isolation of bacteria.

Two colonies of bacteria were observed but were likely of environmental origin caused by contamination due to condensation.

Virology:

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

Infectious pancreatic necrosis virus

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	16.90	38.16	37.12	38.88	POSITIVE
F2	-	-	-	-	Negative

Salmon gill poxvirus

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.73	35.89	35.52	37.29	POSITIVE
F2	-	-	-	-	Negative

R09

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), salmonid alphavirus (SAV) and viral haemorrhagic septicemia virus (VHSV).

Parasitology:

Fins were collected to determine the presence of *Gyrodactylus salaris* using light microscopy and molecular techniques (PCR). No *G. salaris* parasites were detected in the samples examined.

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

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

Histology:

Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from F1 and F2. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

Gill: Lamellar hyperplasia, very mild, focal (F1).

Skin & Muscle: Focal area of white musculature degeneration (F1).

Heart: Minor, multifocal, myocarditis and epicarditis, minor (F1).

Gut and pyloric caeca: Marked peritonitis (likely associated with vaccine administration) (F2) and food content exhibit presence of bacteria (F1).

Pancreas: No abnormalities observed.

Liver: Minor, multifocal, cellular inflammation (F1).

Kidney: Some tubules display eosinophilic hyaline droplets, and there is evidence of some tubular degeneration in F2.

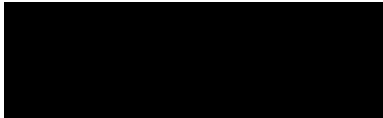
Spleen: Peritonitis, minor (F1) and subcapsular hyperaemia (F2).

R09



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

Signed:



Date: 18/09/2025

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/publications/fish-health-inspectorate-service-charter/pages/1-1-introduction.aspx)

R09