Case No:	2025-0485			Date of visit:	08/12/2025
Additional inspector(s):				Main Inspector:	[redacted]
Site No:	FS1090	Site Name:	University of Edinburgh Fish Facility		
Business No:	FB0418	Business Name:	Edinburgh University		

Case Types: 1 ECS 2 3 4 5 6

Water Temp (°C):	28.5	Thermometer No:	Site	FHI 045 completed	Y

Observations: Region: LO 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.
Post mortem signs observed?	N	If yes, see additional information/clinical score sheet.
Diagnostic samples taken?	N	

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

Additional Case Information:

Fish on site have undergone testing and have had no significant results. No diseases with any clinical signs - just expected background pathogens present.

Discharge of water straight to sewage.

Fish on site euthanised under schedule 1 - overdose of Tricane.

Species on site included zebrafish, medaka and axolotls.

ECS sample of zebrafish - 30 fish from 5 "units"/rooms = 6 fish per room. Wild type fish all UK stock. System 1 (Room E0.01b) - Population ID: 1929640 (Wild type Wik line), System 2 (Room E0.01c) - Population ID: 1887895/2 (Wild type Wik line), System 3 (Room C0.27) - Population ID: 1887895/3 (Wild type Wik line), System 4/ Quarantine 1 (Room C0.24) - Population ID: 18067774/2 (wild type Wik line) and System 5/Quarantine 2 (Room C.032) - Population ID: 1793032 (GM line).

Case No: 2025-0485 Site No: FS1090

Date of Visit: 08/12/2025 Main Insp: [redacted]

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	3168	Facilities stocked		1620	No facilities inspected		3168	
Species	Zebrafish	Aquarium spp (fish) – non sus	Other - see additional information					
Age group	2024/2025	2024/2025	2024					
No Fish	28,015	349	54					
Mean Fish Wt	1.5g	1.5g	300g					
Next Fallow Date (Site)	Never fallow		Next Input Date (Site)		Continuous - next input zebrafish Jan 2026			
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?	Y
2. Date of last inspection:	25/06/2024
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. Have all introductions and imports (since last inspection) from outwith the GB health zone been recorded in the movement records?	Y
the movement records?	

Transport Records

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

Mortality Records

1. Mortality records for **all species** held available for inspection?	Y
2. How are mortalities disposed of?	Other (detail)
If other detail:	Incinerated off site as clinical waste by a licensed contractor
3. Mortality records complete and correctly entered?	Y
4. Recent mortality (last 4 wks):	Last month: Zebrafish - 0.26% (73 zebrafish); Medaka - 0% (0); (Axolotl - 0% (0);
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?	N
If yes, detail:	
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.	N/A

Treatments and Medicines Records

1. Recent treatments (see comment)?	N
If yes, detail:	
If other, detail:	
2. Medicines records available for inspection?	N/A
3. Are records complete and correctly entered?	
4. Are fish in a withdrawal period?	N
5. If yes, what treatment(s)?	
If other, detail:	
6. Are medicines stored appropriately?	N/A

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?	N
If yes, detail (if not detailed under recent disease problems).	

Records checked between:	25/06/2024 - 08/12/2025

Case no:	2025-0485	Site No:	FS1090	Date of visit/ Sampling:	08/12/2025	08/1							
Priority samples:	VI		BA		PA		MG		HI				
Time sampling starts/ends:	15:25:00	16:00:00	Main Insp:		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 button

	Pool/Fish No	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
	Fish nos												
	Pool Group												
Stock Details	Species	DAI	DAI	DAI	DAI	DAI	DAI	DAI	DAI	DAI	DAI	DAI	DAI
	Average weight	1.5g	1.5g	1.5g	1.5g	1.5g	1.5g	1.5g	1.5g	1.5g	1.5g	1.5g	1.5g
	Sex	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Water Type	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW
	Stock Origin	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield
	Facility No	E0.01b	E0.01b	E0.01b	E0.01b	E0.01b	E0.01b	E0.01c	E0.01c	E0.01c	E0.01c	E0.01c	E0.01c

12/2025 Additional Sample Information:

All sampled stock are from an F1 population from the fish input in 2023 from university of Sheffield.

30 Total Tests assigned 2

F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26	F27	F28
DAI	DAI	DAI	DAI	DAI	DAI	DAI	DAI	DAI	DAI	DAI	DAI	DAI	DAI	DAI	DAI
1.5g	1.5g	1.5g	1.5g	1.5g	1.5g	2g	2g	2g	2g	2g	2g	2g	2g	2g	2g
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW
University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield	University of Sheffield
C0.27	C0.27	C0.27	C0.27	C0.27	C0.27	C0.32	C0.32.	C0.32	C0.32	C0.32	C0.32	C0.24	C0.24	C0.24	C0.24

Case Number:	2025-0485		Site No:	FS1090	Main Insp:	
Date of Visit	08/12/2025					

		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 British Islands (non-GB).	0	5	10	14	
	Frequency of movements on from a 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	3
	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				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				
	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		1
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				
	No	3				3
Platform access to cages	Yes	0				0
	No	2				
				Total		**28**
				Rank		**HIGH**

Case No: 2025-0485 Date of visit: 08/12/2025

Site No: FS1090 Main Insp:

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2nd Insp

Report Summary			
Case Type	Date	Insp	2nd Insp
ECS	14/05/2026		

Scottish Government
Riaghaltas na h-Alba

Fish Health Inspectorate visit report

Summary for information of site operator

Business no:	FB0418	Date of visit:	08/12/2025
Site no:	FS1090	Site name:	University of Edinburgh Fish Facility
Case no:	20250485	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.

On this occasion, due to the water temperature being above 14ºC, samples were taken to test for the presence of viral haemorrhagic septicaemia virus (VHSV).

The Inspector did not observe any clinical signs associated with the listed diseases as described in the Aquatic Animal Health (Scotland) Regulations 2009.

Samples

Thirty Danio rerio (zebrafish) were tested for the presence of viral haemorrhagic septicaemia virus (VHSV). Samples were collected according to the table below:

Fish number	Facility number	Stage	Origin
1-6	E0.01b	2025 1.5g	University of Sheffield
7-12	E0.01c	2025 1.5g	University of Sheffield
13-18	C0.27	2025 1.5g	University of Sheffield
19-24	C0.32	2024, 2.0g	University of Sheffield
25-30	C0.24	2024, 2.0g	University of Sheffield

All samples tested **negative** for VHSV.

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
Fish Health Inspectorate Website

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 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.

No mortality levels exceeding the reporting criteria have been recorded since the last inspection.

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.

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

Signed: [redacted] Date: 14/05/2026

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)

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
Fish Health Inspectorate Website

Case No:	2025-0501			Date of visit:	16/12/2025
Additional inspector(s):				Main Inspector:	[redacted]
Site No:	FS0605	Site Name:	Creag an T'Sagairt (Loch Hourn)		
Business No:	FB0119	Business Name:	Mowi Scotland Ltd		

Case Types:	1	2	3	4	5	6
	REP	DIA				

Water Temp (°C):	10.53	Thermometer No:	T310	FHI 045 completed	N/A		
Observations:		Region:	HI	Water type:	S	CoGP MA:	M-22

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:

Fish were transferred from Kingairloch (FS0241) to site between the 27th and 30th November 2025. The fish in the first three movements were transferred in seawater on 27th and 28th November and these fish were put into pen 4. Kingairloch then had a positive result for complex gill disease (CGD) and therefore the next 3 movements on the 29th and 30th November, the fish were transferred in freshwater and put into pen 2.

Kingairloch had reported mortality events for 7 consecutive weeks beginning 13th October 2025 due to "AGD / treatment losses / gill infections and complex gill disease". Mortalities have remained above threshold in the weeks since input to Loch Hourn. Week 49 (1st-7th December) = 4.91% (17, 967 fish) and Week 50 = 3.19% (11,114 fish). However, site have reported percentage mortality as 2.68% for week 50 due to an input of fish onto site from Gorsten on Sunday 14th December.

Fish while at Kingairloch had confirmed AGD, Piscirickettsia salmonis (SRS), HSMI and CGD. A risk assessment dated 26/11/2025 for the transfer of fish from Kingairloch to Loch Hourn was seen.

Treatments: Fish transferred in seawater (pen 4) were treated with freshwater on 7th December. Since treatment mortalities in that pen have dropped from around 1000 fish a day to around an average of 147 per day after two days of treatment losses. However the daily mortality figure is slowly increasing (104 fish on 11th December compared to 216 fish on 15th December). There are no current plans to carry out any more treatments on site.

The company regional health manager has been to site twice since first input. Last site visit report on 12/12/2025 (visit date 11/12/2025) stated that the 2 fish caught for sampling had gills in good condition with mild levels of PGD. Fish behaviour in pen 2 was poor compared to fish behaviour in pen 4. They are seeing a decrease in mortality as well as a decrease in the number of fish with gill damage. They are seeing an increase in physical damage and secondary moritella.

The site have also just received inputs of fish from Gorsten (FS0237) on 14th and 15th December which were all transported in freshwater. These fish are in pens 1 and 3 at Loch Hourn. These fish arrived with wrasse. During the physical inspection of the site, pen 1 which arrived the day before had approximately 100 dead and moribund wrasse by the side of the net. The manager was unaware that wrasse were being transported with the salmon. Movement records on site did not include wrasse. During physical inspection of the site, approximately 10 moribund salmon were observed in each pen. In the Kingairloch population of fish in pens 2 and 4, many (50+) were observed with lesions on their bodies with approximately 5-10 fish per pen appearing lethargic, hanging beside the side of the pen net. There was an increase of fish in pen 2 with physical damage compared to pen 4. In the Gorsten fish population, fish in pens 1 and 3 both also had a number of fish (30+) with lesions on their bodies but only 2-5 lethargic fish per pen. Two fish from pen 2, 2 fish from pen 3 and one fish from pen 4 was taken for diagnostic sampling.

Update 06/05/2026 - The company have investigated the movement of wrasse onto site and have provided movement and mortality records for the wrasse.

Case No: 2025-0501 Site No: FS0605

Date of Visit: 16/12/2025 Main Insp: [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	8	Facilities stocked	4	No facilities inspected	8		
Species	Atlantic salmon	Wrasse					
Age group	Q1/Q2 2025	Mixed					
No Fish	637,138	1,842					
Mean Fish Wt	1.72kg	120g					
Next Fallow Date (Site)	October 2026	Next Input Date (Site)	Currently unknown				
Recent (last 4 wks) disease problems?	Y	Any escapes (since last visit)?	N				
If yes, detail:	AGD, CGD, secondary moritella, PGD						

Movement Records

1. Movement records for **all species** held available for inspection?	N
2. Date of last inspection:	30/04/2025
3. Are records complete and correctly entered?	N
4. Are movement records available for dead fish and waste?	Y
5. Are records complete and correctly entered?	Y
6. Have all introductions and imports (since last inspection) from outwith the GB health zone been recorded in the movement records?	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?	N
2. How are mortalities disposed of?	Ensiled - on site
If other detail:	
3. Mortality records complete and correctly entered?	N
4. Recent mortality (last 4 wks):	Salmon - Wk 48: 2.02% (7560 fish), Wk 49: 4.91% (17,967 fish), Wk 50: 2.68% (11,114 fish)
5. Evidence of recent increased/atypical mortalities?	Y

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

Pen 2 has the highest mortality which has not reduced significantly since input onto site. After input pen 2 averaged 522 between 3rd-7th December, 263 between 8th-10th December and then 593 between 11th-15th December.

6. Any other peaks in mortality during period checked?	N
If yes, detail:	
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:	T.M.S.
If other, detail:	Freshwater
2. Medicines records available for inspection?	Y
3. Are records complete and correctly entered?	Y
4. Are fish in a withdrawal period?	N
5. If yes, what treatment(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).	See additional information

Records checked between:	30/04/2025 - 16/12/2025

Case no:	2025-0501	Site No:	FS0605	Date of visit/ Sampling:	16/12/2025	16/1							
Priority samples:	VI	BA	PA	MG	HI								
Time sampling starts/ends:	12:40:00	14:10:00	Main Insp:		VMD No.	0							
Environmental conditions:	1 Indoors	2	3	4	5								
Summary samples	HIST Y	BA Y	MG Y	VI Y	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	1.8kg	1.8kg	1.8kg	1.8kg	1.8kg							
	Sex	N/A	N/A	N/A	N/A	N/A							
	Water Type	SW	SW	SW	SW	SW							
	Stock Origin	Kingairloch (FS0241)	Kingairloch (FS0241)	Gorsten (FS0237)	Gorsten (FS0237)	Kingairloch (FS0241)							
	Facility No	2	2	3	3	4							

12/2025 Additional Sample Information:

Percussive dispatch

5 Total Tests assigned 9

Case no:	2025-0501	Site No:	FS0605	Method of killing:	Percussive
Date of visit:	16/12/2025	Main Insp:	[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)			55 mins	1h 10m	1h 20m	1h 30m					
External Signs											
Behaviour	**Moribund**										
	Lethargic	**M**	**M**	**M**	**S**	**S**					
	Hanging vertical										
	Spiralling										
	Flashing										
	Loss of equilibrium										
Body	**Dark**		**M**								
	Distended abdomen										
	Anorexic										
	Scale Oedema										
Opercula	**Shortened**										
	Flared										
Haemorrhaging	**Throat**										
	Ventrum										
	Base of fins				**W**						
	Elsewhere	**W**									
Eyes	**Exophthalmic**										
	Enophthalmic (sunken)										
	Cataract										
	Haemorrhagic										
Gills	**Pale**	**W**				**M**					
	Zoned										
	Necrotic										
Lesions	**Flank**	**S**									
	Elsewhere		**M**								
Vent	**Inflamed**										
	Trailing faeces										
Lice Load	**Estimate numbers**	**0**	**0**	**0**	**0**	**0**					
Internal Signs											
Ascites	**Clear**		**M**								
	Bloody			**W**							
Oedema	**In tissues**										
Heart	**Pale/anaemic**			**W**		**W**					
	Granulomas										
	Deformed										
Liver	**Petechial haem**										
	Gross haem										
	Tissue breakdown										
	Enlarged			**M**							
	Colour number(s)	**6**	**3**	**7**	**4**	**2**					
	Granulomas										
	Lesions										
Pyloric caeca	**Petechial haem**										
	Tubules mauve										
	Lack of fat										
Spleen	**Enlarged**	**M**				**M**					
	Granulomas										
Gut	**No food present**										
	Yellow pseudo-faeces	**S**	**S**	**S**	**S**	**S**					
	External haem										
	Internal haem										
Body wall	**Haemorrhaging**										
Swim bladder	**Haemorrhaging**										
	Fluid filled										
Kidney	**Swollen**										
	Grey										
	Granular										
	Liquefied										
General	**Parasites present**										
	Anaemia										

Case no: 2025-0501

Date of visit: 16/12/2025

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

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:

Fish 2 showed signs of early maturation and was filled with milt.

Site No: FS0605

Case No: 2025-0501

Nature of non-compliance:

Action taken (FHI):

Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology

Case No:	2025-0501	Date of visit:	16/12/2025
Site No:	FS0605	Main Insp:	[redacted]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2nd Insp
AGD (Neoparamoeba perurans) (PCR) - AGDQ	1/5	24/12/2025	[redacted]	24/12/2025	[redacted]	26/03/2026	[redacted]	[redacted]
Paranucleospora theridion (PCR) - PNST	5/5	24/12/2025	[redacted]	24/12/2025	[redacted]	26/03/2026	[redacted]	[redacted]
VHS (PCR) - VHSP	0/5	24/12/2025	[redacted]	24/12/2025	[redacted]	26/03/2026	[redacted]	[redacted]
ISA (PCR - kidney) - ISAP	1/1	24/12/2025	[redacted]	19/12/2025	[redacted]	26/03/2026	[redacted]	[redacted]
Salmon gill poxvirus (PCR) - SPVP	5/5	24/12/2025	[redacted]	24/12/2025	[redacted]	26/03/2026	[redacted]	[redacted]
ISA (real time qPCR - kidney) - KPCR	1/5	24/12/2025	[redacted]	17/12/2025	[redacted]	26/03/2026	[redacted]	[redacted]
IHN (PCR) - IHNP	0/5	24/12/2025	[redacted]	24/12/2025	[redacted]	26/03/2026	[redacted]	[redacted]
IPN (PCR) - IPNM	1/5	24/12/2025	[redacted]	24/12/2025	[redacted]	26/03/2026	[redacted]	[redacted]
Piscine myocarditis virus (CMS) (PCR) - PMVP	0/5	24/12/2025	[redacted]	24/12/2025	[redacted]	26/03/2026	[redacted]	[redacted]
Salmonid alphavirus (SAV) (PCR) - SALP	0/5	24/12/2025	[redacted]	24/12/2025	[redacted]	26/03/2026	[redacted]	[redacted]
Aeromonas (histology) - AERH	1/5	19/01/2026	[redacted]	19/01/2026	[redacted]	26/03/2026	[redacted]	[redacted]
Complex gill issues (histology) - CGDH	5/5	19/01/2026	[redacted]	19/01/2026	[redacted]	26/03/2026	[redacted]	[redacted]
Skin pathology - SKIN	3/5	19/01/2026	[redacted]	19/01/2026	[redacted]	26/03/2026	[redacted]	[redacted]
Gill pathology - GPAT	5/5	19/01/2026	[redacted]	19/01/2026	[redacted]	26/03/2026	[redacted]	[redacted]
Heart pathology - HPAT	4/5	19/01/2026	[redacted]	19/01/2026	[redacted]	26/03/2026	[redacted]	[redacted]
Spleen pathology - SPAT	4/5	19/01/2026	[redacted]	19/01/2026	[redacted]	26/03/2026	[redacted]	[redacted]
Kidney pathology - KPAT	5/5	19/01/2026	[redacted]	19/01/2026	[redacted]	26/03/2026	[redacted]	[redacted]
Shewanella spp - SHEW	5/5	20/01/2026	[redacted]	29/01/2026	[redacted]	26/03/2026	[redacted]	[redacted]
Vibrio species (culture) - VSPE (Isolate C)	4/5	20/01/2026	[redacted]	29/01/2026	[redacted]	26/03/2026	[redacted]	[redacted]
Vibrio species (culture) - VSPE (Isolate D)	1/5	20/01/2026	[redacted]	29/01/2026	[redacted]	26/03/2026	[redacted]	[redacted]
Vibrio species (culture) - VSPE (Isolate E)	1/5	20/01/2026	[redacted]	29/01/2026	[redacted]	26/03/2026	[redacted]	[redacted]
Aeromonas salmonicida (Furunculosis) - ASAL	1/5	20/01/2026	[redacted]	29/01/2026	[redacted]	26/03/2026	[redacted]	[redacted]
Enterobacteriacea family - ENTF	3/5	20/01/2026	[redacted]	29/01/2026	[redacted]	26/03/2026	[redacted]	[redacted]

Report Summary			
Case Type	Date	Insp	2nd Insp
DIA	25/03/2026		
Case completion	11/05/2026		

Fish Health Inspectorate visit report

Summary for information of site operator

Business no:	FB0119	Date of visit:	16/12/2025
Site no:	FS0605	Site name:	Creag an T'Sagairt (Loch Hourn)
Case no:	20250501	Inspector:	[redacted]

Section one: summary

An inspection was conducted at the above site after receiving consecutive mortality reports from the business regarding the site and the previous site the fish were located. Mortality reports attributed mortality to amoebic gill disease (AGD), gill health and treatment, and transfer losses.

During the inspection approximately 10 moribund salmon were observed in each pen. In pens 2 and 4, more than 50 fish were observed with lesions on their bodies with approximately 5-10 fish per pen appearing lethargic, hanging beside the side of the pen net. There was an increase of fish in pen 2 with physical damage compared to pen 4. In pens 1 and 3 more than 30 fish had lesions on their bodies but there were only 2-5 lethargic fish observed per pen. Five fish were taken for diagnostic sampling.

Histopathological examination revealed, moderate, complex gill pathology. Fish 3 exhibited evidence of a systemic bacterial infection; however, no overt bacteria were observed on Gram stain. Fish 5 displayed features resembling *Aeromonas* spp. Fish 1 showed a bacterial ulcerative dermatitis, along with signs of cachexia, which were also observed in Fish 4.

Aeromonas salmonicida was identified on plates taken from kidney and gill material of fish 5. The level and purity of growth would suggest it would be present as a primary pathogen in this fish.

All samples tested positive for salmon gill poxvirus and *Paranucleospora theridion.* Fish 2 also tested positive for *Neoparamoeba perurans* (AGD).

Samples were screened for infectious salmon anaemia virus (ISAV) by QPCR as part of the surveillance program for the control of listed diseases. Fish 1 tested positive for infectious salmon anaemia virus (ISAV) by QPCR and the sequence data confirmed the presence of ISAV HPR0, the non-pathogenic form of the virus. In relation to the ISAV HPR0 result obtained, along with the observations made on site, no further statutory

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action is required to be taken in this case, ISAV HPR0 not being a disease listed in The Aquatic Animal Health (Scotland) Regulations 2009.

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 two: case detail

Observations

The company reported mortality levels over threshold for seven consecutive weeks at Kingairloch (FS0241) before fish were moved to the above site. These mortality reports began at 1.55%, increased to 4.56% in the third week, dropped to 1.19% the fourth week before rising again, peaking at 8.33% in the sixth week and falling to 4.18% the last week the site was stocked.

Fish were transferred onto the current site in two batches. The first batch of fish occurred in two transfers in seawater on 27th and 28th November and these fish were placed in pen 4. The second batch of fish was carried out in three transfers in freshwater on 29th and 30th November and these fish were put into pen 2. Fish while at Kingairloch had confirmed AGD, Piscirickettsia salmonis (SRS), heart and skeletal muscle inflammation (HSMI) and complex gill disease (CGD). After initial input, mortalities were higher in pen 4 and these fish were treated with freshwater on 7th December. Since treatment, mortalities in pen 4 dropped from around 1000 fish a day to around an average of 147 per day after two days of treatment losses. However, the daily mortality figure is slowly increasing (104 fish on 11th December compared to 216 fish on 15th December). Daily mortalities in pen 2 have remained between 250-680 per day, averaging at 530 per day. At the time of inspection there were no current plans to carry out any more treatments on site.

The above site also received inputs of fish from another site on the 14th and 15th December which were all transferred in freshwater and placed in pens 1 and 3.

During the physical inspection of the site approximately 10 moribund salmon were observed in each pen. In pens 2 and 4, more than 50 fish were observed with lesions on their heads, flanks or tails with approximately 5-10 fish per pen appearing lethargic, hanging beside the side of the pen net. Fish in pen 2 had a higher number of fish with physical damage compared to pen 4. In pens 1 and 3 more than 30 fish had lesions on their heads, flanks or tails and only 2-5 lethargic fish observed per pen.

Two fish from pen 2, two fish from pen 3 and one fish from pen 4 were taken for diagnostic sampling. The fish sampled had no lice load and all were lethargic and

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easily caught. Externally fish 2 (F2) had a dark body and F1 and F4 had haemorrhaging on the body. Gills were pale in F5 and F1. Fish 2 had lesions on the body. Internally, F2 contained clear ascites and F3 contained bloody ascites. Fish 2 showed signs of early maturation and was filled with milt. The hearts of F3 and F5 were slightly pale. Liver colours ranged with F5 having the lightest coloured liver and F3 having the darkest which was also moderately enlarged. The spleen of F1 and F5 were also enlarged and all fish had yellow pseudo-faeces in the gut.

Samples

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

Fish number	Facility number	Species	Stage	Origin
1 and 2	2	Atlantic salmon	1.8kg 2025 Q1/Q2	Kingairloch (FS0241)
3 and 4	3	Atlantic salmon	1.8kg 2025 Q1/Q2	Gorsten (FS0237)
5	4	Atlantic salmon	1.8kg 2025 Q1/Q2	Kingairloch (FS0241)

Results

Bacteriology:

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

The following bacteria were isolated:

- *Aeromonas salmonicida* F5 (kidney and gill)
- *Shewanella purrefaciens* F1 (kidney and gill), F2 (gill), F3 (kidney and gill), F4 (kidney and gill), F5 (gill)
- *Vibrio* sp. isolate C F1 (kidney), F2 (kidney and skin lesion), F4 (gill), F5 (kidney)
- *Vibrio* sp. isolate D F2 (skin lesion)
- *Vibrio* sp. isolate E F1 (skin lesion)
- Enterobacteriaceae family F1, F3, F4 (kidney)

Shewanella putrefaciens, three *Vibrio* species and Enterobacteriaceae family did not have matching characteristics of a primary pathogen. The level and purity of growth would suggest these bacteria are present as secondary pathogens and not the primary source of morbidity.

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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 (IPNV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	-	-	-	-	Negative
F2	-	-	-	-	Negative
F3	-	-	-	-	Negative
F4	-	-	-	-	Negative
F5	17.44	37.69	36.43	36.63	**Positive**

Infectious salmon anaemia virus (ISAV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	17.99	36.84	37.17	37.06	**Positive**
F2	-	-	-	-	Negative
F3	-	-	-	-	Negative
F4	-	-	-	-	Negative
F5	-	-	-	-	Negative

F1 QPCR positive Cp 37, segment 6 was amplified and sequenced and determined to be the non-pathogenic HPR0.

Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.7	27.82	27.87	27.83	**Positive**
F2	22.12	34.13	34.24	34.54	**Positive**
F3	22.3	33.57	33.63	33.44	**Positive**
F4	21.66	26.5	26.57	26.48	**Positive**
F5	21.9	25.65	25.63	25.65	**Positive**

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

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Parasitology:

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

Neoparamoeba perurans (AGD)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	-	-	-	-	Negative
F2	22.12	35.29	35	35.13	**Positive**
F3	-	-	-	-	Negative
F4	-	-	-	-	Negative
F5	-	-	-	-	Negative

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.7	22.99	23.05	22.98	**Positive**
F2	22.12	29.71	29.65	29.72	**Positive**
F3	22.3	29.86	29.92	29.91	**Positive**
F4	21.66	25.27	25.25	25.25	**Positive**
F5	21.9	22.91	22.92	22.91	**Positive**

Histology:

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

Histopathological examination revealed the following:

Gill: Lamellar adhesions, lamellar epithelial necrosis (F1, F5), very mild lamellar hyperplasia (F2). Multiple numbers of basophilic epithelial inclusions (likely epitheliocystis) (F1). Filament branchitis with foci of granulomatous inflammation displaying centrally Splendore-Hoeppli reaction (homogeneous eosinophilic material) and few giant cells, and cell debris among gill filament with some bacteria observed in F3. Several aneurysmal dilation/telangiectasia observed (F1, F2, F4).

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Skin & Muscle: Focal absence of epidermal layer, dermatitis with presence of rod-shape bacteria (F1), mild myositis (F1, F3, F4).

Heart: Few clusters of Gram-negative aggregates of rod-shape bacteria (resembles *Aeromonas* sp.) (F5). Compact layer displayed musculature degeneration (F5). One thrombus observed in F2. Epicarditis, minor (F1, F4).

Gut and pyloric caeca: Peritonitis (F3, F4).

Pancreas: No abnormalities detected.

Liver: Some perivascular cuffing (F1). F3 exhibited granulomatous inflammation displaying centrally Splendore-Hoeppli reaction (homogeneous eosinophilic material) and multinucleated giant cells, mild, multifocal.

Kidney: F3 exhibited granulomatous inflammation displaying centrally Splendore-Hoeppli reaction (homogeneous eosinophilic material) and multinucleated giant cells. F5 exhibited interstitial necrosis, mild, multifocal, with dense aggregates of Gram-negative bacteria resembling *Aeromonas* sp. Some increase in the numbers of aggregates of melanomacrophages (F1, F4). Increased number of basophilic nuclei (F2).

Spleen: F5 exhibited parenchymal necrosis, mild, multifocal, with dense aggregates of Gram-negative bacteria resembling *Aeromonas* sp. F3 displayed Granulomatous inflammation with a central Splendore-Hoeppli reaction (homogeneous eosinophilic material). Increased number of basophilic nuclei (F2). Slightly congested (F4).

Brain: Not sampled.

Eye: Not sampled.

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

Signed: [redacted] Date: 25/03/2026

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:	16/12/2025
Site no:	FS0605	Site name:	Creag an T'Sagairt (Loch Hourn)
Case no:	20250501	Inspector:	[redacted]

Case completion report

During the site inspection on 16th December 2025, it was discovered that an unexpected quantity of wrasse had been transferred onto site during a salmon input from another seawater site. The following points were raised with the site representative:

- No mortality records were available for the wrasse that were moved onto site 14th and 15th December.
- No movement records available for the wrasse that were moved onto site during 14th and 15th December.

The required records have now been provided to the Fish Health Inspectorate.

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: 11/05/2026

Fish Health Inspector

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