

Case No: 2024-0181 Date of visit: 12/06/2024

Time spent on site: 5hrs Main Inspector:

Site No: FS0336 Site Name: Druimyeon Bay
Business No: FB0169 Business Name: Bakkafrost Scotland

Case Types: 1 ECI 2 CNI 3 SLI 4 DIA 5 6

Water Temp (°C): 11.8 Thermometer No: T173 FHI 045 completed N/A

Observations: Region: ST Water type: S CoGP MA: M-46

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.
Gross pathology 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:**SAL MORTALITY**

Peaks in mortality - 2022 wks45 to 49 (mort count for period- 142,565) mainly attributed to Pancreas disease and environmental conditions (water quality) reported to FHI during mortality event.

Peaks in mortality - 2023 wks11 to 30 (mort count for period- 71,447) attributed mainly Pancreas disease and environmental conditions (water quality) reported to FHI during mortality event. FW treatments were administered during this period, treatments attributed to some of the mortalities.

USB MORTALITY

Records checked between 09/11/2022 to 10/06/2024 no peaks in wrasse mortality. However, 30,705 black losses was recorded for Ballan wrasse during this period.

There was 773 black losses recorded for mixed wrasse during this period.

Conducted routine FW/ FLS treatments in May 2024.

Site have noted slight increases in salmon mortalities. Suspected gill issues - gills have been scoring high with PGD. Expected to conduct FW/ FLS treatment at the weekend.

Site have observed recent increases in jellyfish numbers.

During the inspection it was observed some lethargic fish across the site, they were observed hanging to the outer edges of the cages. Fish were observed to be nosing into the tide/ current. Potentially gill related issues. 4 fish were removed for diagnostic sampling.

Inspection and case paperwork conducted by [REDACTED] supervised by [REDACTED]. Diagnostic sampling - Fish 1 & 4 sampled by [REDACTED], Fish 2 & 3 sampled by [REDACTED].

Case No: Site No:

Date of Visit: Inspector(s):

Registration/Authorisation Details

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

2. Changes made to details?

Site Details (include cleaner fish for all sections)

Total No facilities	<input type="text" value="16"/>	Facilities stocked	<input type="text" value="16"/>	No facilities inspected	
Species	<input type="text" value="SAL"/>				
Age group	<input type="text" value="2023 Q2"/>				
No Fish	<input type="text" value="437,347"/>				
Mean Fish Wt	<input type="text" value="3.5kg"/>				
Next Fallow Date (Site)	<input type="text" value="July/ August 2024"/>	Next Input Date (Site)	<input type="text" value="December 2024"/>		
Recent (last 4 wks) disease problems?		<input type="text" value="Y"/>	Any escapes (since last visit)?		
If yes, detail:	<input type="text" value="Gill Health issues"/>				

Movement Records

1. Movement records 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. Are health certificates for introductions (outwith GB) available?

Transport Records

1. Are any movements carried out by (or on behalf) of the business (not using a STB)?

If yes, is there a system in place for maintenance of transportation records?

Mortality Records

1. Mortality records 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:

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.

Treatments and Medicines Records

1. Recent treatments (see comment)?

If yes, detail:

If other, detail:

2. Medicines records available for inspection?

3. Are records complete and correctly entered?

4. Are fish in a withdrawal period?

5. If yes, what treatment(s)?

Optomease

If other, detail:

6. Are medicines stored appropriately?

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?

2. If yes, are results available for inspection?

3. Any significant results?

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

Records checked between:

09/11/2022 - 12/06/2024



16
N

Y
Y
Y
Y
Y
N/A

Y
Y

Y

Y
23 2805

Y

Y

N/A
Y

N
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
N

Case no: Site No: Date of visit/
Sampling:

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

Pool/Fish No	F1	F2	F3	F4								
Fish nos	1	2	3	4								
Pool Group	P1	P1	P1	P1								
Species	SAL	SAL	SAL	SAL								
Average weight	3.5kg	3.5kg	3.5kg	850g								
Sex	N/A	N/A	N/A	N/A								
Water Type	SW	SW	SW	SW								
Stock Details		Plocrapol (FS 1256)	Plocrapol (FS 1256)	Plocrapol (FS 1256)	Plocrapol (FS 1256)							
	Stock Origin											
Facility No	8	7	1	15								

Case no: **2024-0181**

Site No: **FS0336**

Method of killing: **Percussive**

Date of visit: **12/06/2024**

Inspector(s): **[REDACTED]**

Sheet Relevant: **Y**

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

Fish Number		1	2	3	4				
Time sampled after death (if > 45 minutes)		60	80	100	120				
External Signs									
Behaviour	Moribund	S	S	S	S				
	Lethargic	S	S	S	S				
	Hanging vertical								
	Spiralling								
	Flashing								
	Loss of equilibrium								
Body	Dark				M				
	Distended abdomen								
	Anorexic				S				
	Scale Oedema								
Opercula	Shortened								
	Flared								
Haemorrhaging	Throat								
	Ventrum								
	Base of fins								
	Elsewhere			S					
Eyes	Exophthalmic			S					
	Enophthalmic (sunken)								
	Cataract				M				
	Haemorrhagic			M					
Gills	Pale		M	S	S				
	Zoned								
	Necrotic		M						
Lesions	Flank								
	Elsewhere	S							
Vent	Inflamed								
	Trailing faeces								
Lice Load	Estimate numbers	1							
Internal Signs									
Ascites	Clear								
	Bloody								
Oedema	In tissues								
Heart	Pale/anaemic				M				
	Granulomas								
	Deformed	S	M						
Liver	Petechial haem								
	Gross haem								
	Tissue breakdown								
	Enlarged								
	Colour number(s)								
	Granulomas								
	Lesions								
Pyloric caeca	Petechial haem								
	Tubules mauve				M				
	Lack of fat				S				
Spleen	Enlarged	S	M	M	M				
	Granulomas								
Gut	No food present	W	W	W	W				
	Yellow pseudo-faeces								
	External haem								
	Internal haem								
Body wall	Haemorrhaging		M						
Swim bladder	Haemorrhaging		W						
	Fluid filled								
Kidney	Swollen								
	Grey								
	Granular								
	Liquefied								
General	Parasites present								
	Anaemia								

Additional comments:

F1 - lesion on operculum. Histo could not be taken. Bacteriology taken on FMM & TSAS. Deformed heart - was observed enclosed by the Liver and was hard.

Case Number:	2024-0181	Site No:	FS0336	Insp:		
Date of Visit	12/06/2024	No of movements/supp./dest.			Score	
Live fish movements		0	1-5	6-10	>10	
Movements on (from out with GB) of susceptible species	Frequency of movements on from equivalent MS	0	5	10	14	0
	Frequency of movements on from equivalent zone or compartment including third country	0	9	18	26	0
	Number of suppliers	0	5	10	14	0
Movements off	Frequency of movements off	0	3	6	10	10
	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				
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		2
	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				0
	No	3				
Platform access to cages	Yes	0				0
	No	2				
Total Rank					20	MEDIUM

Case No: **2024-0181**

Site No: **FS0336**

Sea Lice Inspection (Seawater Sites Only)

- 1. Has the site experienced sea lice problems in the previous 4 years?
- 2. Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis?
- 3. Does the site have access to a range of licenced in-feed and bath sea lice medications (including deltamethrin, azamethiphos and emamectin benzoate) as well as access to suitable biological and/or mechanical control measures, and can these be deployed in a reasonable period of time?
- 4. Is there a signed documented farm management agreement or statement relevant to the site and CoGP Farm Management Area (or equivalent)?
- 5. Are sea lice count records available for inspection? (Legal SSI, CoGP Annex 6)
- 6. Do records adequately reflect the required standard specified in the SSI and the CoGP? (Legal SSI, CoGP Annex 6)
- 7. Are sea lice (*L. salmonis*) record levels below the suggested criteria for treatment in the CoGP during the period that records are inspected? (CoGP Annex 6)
- 8. Have average adult female sea lice (*L. salmonis*) numbers per fish been at a level of 3 or above (prior to w/b 10/6/19) or 2 or above (from w/b 10/6/19) during the period that records are inspected?
- If yes, have these been reported to the Fish Health Inspectorate? If no, FHI see comment.
- 9. Is *C. elongatus* infestation at a level which is considered to cause significant welfare problems? (CoGP 4.3.81, 5.3.50)
- 10. Have therapeutic treatments been administered or other actions taken when *L. salmonis* levels have exceeded the suggested criteria for treatment or where *C. elongatus* is considered to have welfare implications? (CoGP 4.3.82, 5.3.51)
- 11. Has any other action been taken (where applicable)?
- 12. Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded?
- 13. Are treatments, where conducted, carried out in cooperation between participating farms?
- 14. Is there a harvesting strategy for the site, where fewer populations or part populations are held without treatment for sea lice?
- 15. Is there a site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation?
- 16. Do the sea lice levels observed on stocks reflect sea lice count data? If no please detail reasons.

Containment Inspection

- 1. Has the site experienced equipment damage due to predators in the current or previous production cycles?
- 2. Are measures in place to mitigate against the predation experienced on site? (Detail below)

Seal pro nets Top/ bird nets
 If other, detail below:

- 3. Have escape incidents or events been experienced on or in the vicinity of the site since the last FHI inspection?
- If Yes proceed with questions 4 – 9. If No skip to question 10
- 4. Have these been reported to Scottish Ministers?
- 5. Have these been reported to local DSFB forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
- 6. Have these been reported to the SSPO and local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
- 7. Were methods (if any) used to recover escapees? If yes give detail
- 8. If gill nets were deployed was this action agreed with local wild fish interests and was permission given by Scottish Ministers? (Legal, CoGP – 4.4.38, 5.4.18)
- 9. What action was taken to prevent and minimise the risk of further escapes? (Not covered in code but could be considered under satisfactory measures of the Act)
- 10. Is the site inspected as satisfactory with regards to containment? If no, please detail reason(s)

Case No: 2024-0181

Site No: FS0336

Date of Visit: 12/06/2024

Inspector: [REDACTED]

Point of Compliance

1. Is the farm under inspection located within a farm management area?

If N, no further questions require completion.

Points of Compliance for Both Farm Management Agreements and Statements

- 2. Has a current farm management agreement or statement (FMAg/S) been prepared?
- 3. Is the current FMAg/S available for inspection?
- 4. Does the FMAg/S identify the relevant farm management area?
- 5. Does the FMAg/S identify the fish farm site(s) to which it applies?
- 6. Does the FMAg/S identify the date of commencement of the agreement or statement?
- 7. Does the FMAg/S identify the date of review?

Arrangements for Fish Health Management

- 8. Does the FMAg/S identify the minimum health standards for the stocks to be introduced to the area or farm?
- 9. Does the FMAg/S identify the vaccination requirements for stocks held in the area or farm?
- 10. Does the FMAg/S identify the species of fish which may be stocked into the area or farm?
- 11. Does the FMAg/S identify the maximum stocking density of any pen on any farm in the area or the individual farm?
- 12. Does the FMAg/S identify the arrangements for the storage and disposal of any dead fish from any fish farm in the area or the individual farm?

Arrangements for The Management of Sea Lice

- 13. Does the FMAg/S identify arrangements for the sharing of data on sea lice numbers and treatments?
- 14. Does the FMAg/S identify the availability and the use of medicines on farms covered by the agreement of statement?
- 15. Does the FMAg/S identify any requirements for the sensitivity testing of available treatments for sea lice on farms in the area or individual farms?
- 16. Does the FMAg/S identify the circumstances under which biological controls and cleaner fish are to be used on farms in the area or individual farms?
- 17. Does the FMAg/S identify the arrangements for synchronous treatments on farms within the area?

Live Fish Movements

- 18. Does the FMAg/S identify the circumstances when live fish may be introduced or removed from the area or farm?
- 19. Does the FMAg/S identify the arrangements for the movement of live fish on and off sites in the area or individual farms?

Harvesting

20. Does the FMAg/S identify acceptable harvest practices on farms in the area or individual farms?

Fallowing

21. Does the FMAg/S identify the dates by which the area or individual farm will be fallow and the earliest date when a farm or area may be restocked?

22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement?

23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?

Point of Compliance for Farm Management Agreements Only

24. Does the farm management agreement include arrangements for persons to become, or cease to be, parties to the agreement?

Management and operation

25. Is the fish farm being managed and operated in accordance with the agreement or statement?

26. What is the version no/date of issue of the FMAg/S?



Case No: **2024-0181** Date of visit: **12/06/2024**
 Site No: **FS0336** Inspector: **[REDACTED]**

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
Paranucleospora theridion (PCR) - PNST	4/4	18/06/2024		18/06/2024		18/07/2024		
Salmon gill poxvirus (PCR) - SPVP	3/4	18/06/2024		18/06/2024		18/07/2024		
AGD (Neoparamoeba perurans) (PCR) - AGDQ	0/4	18/06/2024		18/06/2024		18/07/2024		
IPN (PCR) - IPNM	1/4	19/06/2024		19/06/2024		18/07/2024		
ISA (real time qPCR - heart & kidney) - ISAQ	0/4	19/06/2024		19/06/2024		18/07/2024		
Piscine myocarditis virus (CMS) (PCR) - PMVP	0/4	19/06/2024		19/06/2024		18/07/2024		
VHS (PCR) - VHSP	0/4	19/06/2024		19/06/2024		18/07/2024		
IHN (PCR) - IHNP	0/4	19/06/2024		19/06/2024		18/07/2024		
Salmonid alphavirus (SAV) (PCR) - SALP	0/4	19/06/2024		19/06/2024		18/07/2024		
Aeromonas (histology) AERH	2/4	27/06/2024		27/06/2024		18/07/2024		
Heart pathology - HPAT	4/4	27/06/2024		27/06/2024		18/07/2024		
Gill pathology - GPAT	4/4	27/06/2024		27/06/2024		18/07/2024		
Kidney pathology - KPAT	2/4	27/06/2024		27/06/2024		18/07/2024		
Muscle pathology - MPAT	3/4	27/06/2024		27/06/2024		18/07/2024		
Spleen pathology - SPAT	2/4	27/06/2024		27/06/2024		18/07/2024		
Aeromonas salmonicida (Furunculosis) - ASAL	4/4	27/06/2024		27/06/2024		18/07/2024		
Aeromonas spp - AERO	4/4	27/06/2024		27/06/2024		18/07/2024		
Yersinia ruckeri (ERM) - YRUK	1/4	27/06/2024		27/06/2024		18/07/2024		

Report Summary	Date	Insp	2 nd Insp
Case Type			
ECI, CNI, SLI	19/06/2024		
DIA	18/07/2024		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0169	DATE OF VISIT	12/06/2024
SITE No	FS0336	SITE NAME	Druimyeon Bay
CASE No	20240181	INSPECTOR	[REDACTED]

Section 1: Summary

During a routine site inspection, a number of lethargic fish were observed across the site. The fish were observed hanging around the outer edges of the pens, nosing into the tide / current. Four fish were removed for further examination and subsequent diagnostic sampling.

Histopathology examination revealed features consistent with *Aeromonas salmonicida* (furunculosis), which was also isolated on the plates. The level of purity and growth would suggest this bacterium is present as the primary pathogen and would be implicated in morbidity. Mild hyperplastic branchitis was also observed during histopathology examination.

Yersinia ruckeri was isolated from F4. The growth levels and purity would suggest that it would be implicated in morbidity in this fish.

Samples were also screened and tested positive by qPCR for the following *Paranucleospora theridion* and salmon gill poxvirus (SGPV).

Samples from F4 tested positive for infectious pancreatic necrosis virus (IPNV).

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

During a routine inspection, the site had noted slight increases in salmon mortalities suspected to be related to gill issues, as they had observed high scoring of PGD during checks. The site had conducted routine FW / FLS treatments in May 2024. Site had observed an increase in the number jellyfish across the site.

All fish that were sampled were observed to be lethargic and moribund. A skin lesion on the operculum was present on F1. F4 was anorexic and colouration appeared to be dark. Bi-lateral exophthalmia was evident on F3 and developing cataract in F4. Pale gills were observed in F2 to F4, mild necrosis of the gills was noted on F2.

Internally, F4 heart was pale / anaemic, F1 and F2 hearts were deformed, F1 heart was observed to be hard and enclosed by the liver. Splenomegaly evident in all fish. Lack of fat on the pyloric caeca was observed in F4. Haemorrhaging of the body wall and swim bladder was observed in F2. No food was observed in the guts of all fish sampled.

R09

Samples

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

Fish number	Facility number	Species	Stage	Origin
F1	8	Atlantic Salmon	2023 Q3; 3.5kg	Plocrapol (FS1256)
F2	7	Atlantic Salmon	2023 Q3; 3.5kg	Plocrapol (FS1256)
F3	1	Atlantic Salmon	2023 Q3; 3.5kg	Plocrapol (FS1256)
F4	15	Atlantic Salmon	2023 Q3; 3.5kg	Plocrapol (FS1256)

Results

Bacteriology: Kidney, gill, material from F1 to F4 and lesion material from F1, was inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated:

- *Aeromonas salmonicida*: Gill (F1 to F4), Kidney (F1 to F3), Lesion (F1)
- *Aeromonas* spp.: Gill (F1 to F4), Lesion (F1)
- *Yersinia ruckeri*: Kidney – (F4)

The level and purity of growth from *Aeromonas salmonicida* would suggest that this bacterium is present as a primary pathogen and would be implicated in morbidity. From the tests conducted, we do not have evidence of resistance to amoxicillin, oxytetracycline, sulphamethoxazole/trimethoprim or florfenicol.

The level and purity of growth from *Aeromonas* spp. would suggest that it was present as a secondary pathogen.

The level and purity from *Yersinia ruckeri* would suggest that it would be implicated in morbidity of this fish, however it was not observed in F1 to F3.

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	16.03	24.87	24.85	24.79	POSITIVE

Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	19.00	36.98	37.73	37.31	POSITIVE
F2	-	-	-	-	Negative
F3	18.88	29.16	29.49	28.87	POSITIVE
F4	18.67	31.76	31.9	31.76	POSITIVE

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

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	19.00	31.75	31.44	31.01	POSITIVE
F2	18.66	32.80	32.00	32.20	POSITIVE
F3	18.88	27.21	27.72	28.12	POSITIVE
F4	18.67	29.24	29.45	29.09	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 to F4. Eye tissue was taken from F3. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

Gill: Lamellar hyperplasia and fusion, multifocal, (F1 & F2) with haemorrhage and foci of necrosis (F2). F3 & F4 displayed epithelial hyperplasia of individual lamellae. Several dense aggregates of Gram-negative rod-shape bacteria (F1 & F2). Some aneurysmal dilation/telangiectasia (F4). Free blood among gill filaments (F1).

Skin & Muscle: Small areas of white skeletal muscle haemorrhage (F1), foci of necrosis and inflammation (F3) and F2 exhibited an area of haemorrhage with few bacteria.

Heart: F1 displayed a massive thrombus with presence of high numbers of Gram-negative rod-shape bacteria. F2 displayed several small areas with dense aggregates of Gram-negative rod-shape bacteria and some fibre necrosis surrounding the aggregates. F2, F3 & F4 displayed mild epicarditis.

Gut and pyloric caeca: Some peritonitis observed in F2. F1, F2 & F3 displayed cell sloughing (potentially associated with post-mortem artefact), ranging from marked to mild.

Pancreas: Within the normal range.

Liver: F1 displayed small foci of hepatocellular necrosis and thrombi observed on the vessels, F2 also displayed hepatocellular necrosis with Gram-negative rod-shape bacteria mild, multifocal. Some hepatocellular vacuolation (macrovesicles), diffuse (F3). F4 displayed some cellular inflammatory infiltration.

Kidney: Interstitial cell (haematopoietic) granulomatous necrosis with few small aggregates of Gram-negative rod-shape bacteria (F1). F2 also exhibited interstitial necrosis with aggregates of Gram-negative rod-shape bacteria, mild, multifocal.

Spleen: Chronic inflammation with some evidence of necrosis (F1 & F2) with aggregates of Gram-negative rod-shape bacteria (F2).

Eye: F3 within normal range. F1, F2 & F4 Not sampled.

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

Signed:



Date: 18/07/2024

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0169	DATE OF VISIT	12/06/2024
SITE No	FS0336	SITE NAME	Druimyeon Bay
CASE No	20240181	INSPECTORS	

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

Samples were taken for diagnostic purposes. A separate report will be issued detailing the results of these tests.

Records

The surveillance frequency category of the site was assessed as medium. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every second year. 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.

Mortality levels had exceeded the reporting criteria since the last inspection and had been reported to the Fish Health Inspectorate as required.

Reports detailing the results of animal health surveillance carried out by or on behalf of the business and/or Marine Directorate were available for inspection.

The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.

Inspection under the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2015

Medicine records were inspected and found to be adequately maintained.

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Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

The site was also inspected in accordance with the Aquaculture and Fisheries (Scotland) Act 2007, as amended, with respect to section 3 regarding parasites (sea lice), section 4A regarding fish farm management agreements and statements and section 5 regarding containment and escapes.

On this occasion the site was found to be satisfactory with regards to parasites, fish farm management agreements and statements, containment and escapes.

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

Signed:



Date: 19/06/2024

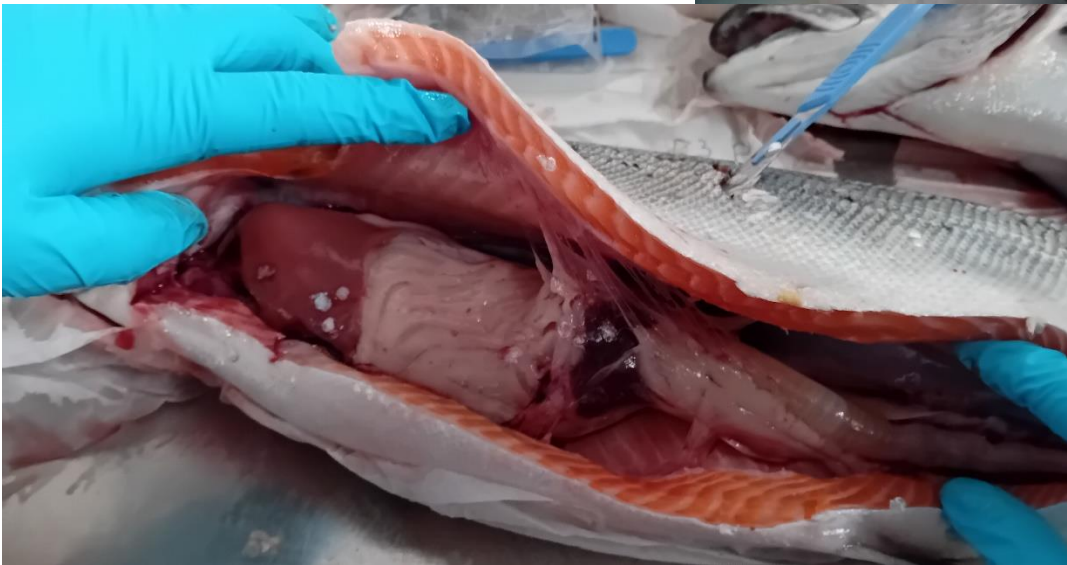
Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

All sampled fish



FISH 1



FISH 2



FISH 3



FISH 4

