

Case No:	<input type="text" value="2021-0383"/>	Date of visit:	<input type="text" value="07/10/2021"/>			
Time spent on site:	<input type="text" value="5 hours"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="FS0708"/>	Site Name:	<input type="text" value="Portree"/>			
Business No:	<input type="text" value="FB0169"/>	Business Name:	<input type="text" value="The Scottish Salmon Company"/>			
Case Types:	1 <input type="text" value="ECI"/>	2 <input type="text" value="SLI"/>	3 <input type="text" value="CNI"/>	4 <input type="text" value="VMD"/>	5 <input type="text" value="DIA"/>	6 <input type="text" value=""/>
Water Temp (°C):	<input type="text" value="12.7"/>	Thermometer No:	<input type="text" value="T148"/>	FHI 045 completed	<input type="text" value=""/>	
Observations:	Region:	HI	Water type:	S	CoGP MA	M-26
Dead/weak/abnormally behaving fish present?	<input type="text" value="Y"/>	If yes, see additional information/clinical score sheet.				
Clinical signs of disease observed?	<input type="text" value="Y"/>	If yes, see additional information/clinical score sheet.				
Gross pathology observed?	<input type="text" value="Y"/>	If yes, see additional information/clinical score sheet.				
Diagnostic samples taken?	<input type="text" value="Y"/>					

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

**Additional Case Information:**

Increased mortalities at site due to jellyfish, plankton and associated gill health issues.

30/08 - 05/09/21 = 18,687 (3.66%) - Site has been found to be positive for CMS. PGD and anaemia prevalent (wk 33). Gill issue exacerbated by jellyfish/plankton blooms.

06/09 - 12/09/2021 = 25,482 (5.17%) - Some cages have been harvested to reduce biomass on site and fish are scheduled to undergo a FW treatment in the coming weeks to try and improve gill health on the site.

13/09 - 19/09/2021 = 29,321 (6.28%) - The site has had a freshwater treatment and the fish seem to have reacted well.

20/09 - 26/09/2021 = 9,076 (2.15%)

Site currently harvesting live fish to Marybank in Stornoway, targeting worst affected cages.

Fish vet group visit 6/10/21 - this will be their 3rd visit to look at current issues on site. Reporting; Zooplankton, sea gooseberries, moon, crystal and lions mane jellyfish, cyanea sp and phialleda and other hydrozoa. Blooms have been observed onsite for many weeks starting in August and only clearing now.

SLICE on input every 8 weeks for first 10 months until June 2021. FW and mechanical treatments since then. Freshwater treatment at both sites just completed (three hour treatment for gill issues).

Normal practice to ensile waste on site. With increased morts currently have had to use Fergusons boat to remove some fish off whole to Mossparck or Dunfermline.

Fish input 1/9/2020 - Russell burn, Harris lochs. Fish moved off site to West Strome in Jan 2021. Risk assessment completed.

Dec 2020 - seal breached cage 3 at Portree. Replaced all nets with seal pro nets which have stopped seal issues experienced earlier in the cycle. Also seal blinds on nets. ADD on site but not used and would need to seek approval is required.

Lice figures peaked at 5.29 adult females 8/9/21, hydrolicer used and dropped to 0.95 for 17/9/21. Numbers had increased as they delayed lice treatments due to poor gill health over the summer. Last count 26/9/21 was 1.09 adult female. A FW treatment has been undertaken since then. Hydrolicer planned for next week.

Lumpfish losses 12.4% since input Feb-April 2021 from Ocean Matters. Attributed to general background losses.

Mortality levels have reduced significantly since freshwater treatment and only a few moribund fish observed. Four fish removed from pen 3 for diagnostic sampling as this pen had the highest mortality (~ 30%).

Paperwork by [REDACTED], Site inspection by [REDACTED] & [REDACTED], VMD sampling by [REDACTED], diagnostic sampling by [REDACTED] under supervision of [REDACTED]

Case No: **2021-0383** Site No: **FS0708**  
 Date of Visit: **07/10/2021** Inspector(s): **[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	<b>10</b>	Facilities stocked	<b>10</b>	No facilities inspected	<b>10</b>
Species	<b>SAL LUM</b>				
Age group	<b>2020 S0</b>	<b>Feb-April 21 input</b>			
No Fish	<b>446,553</b>	<b>90,980</b>			
Mean Fish Wt	<b>2.5 kg</b>	<b>90g</b>			
Next Fallow Date (Site)	<b>May 2022</b>		Next Input Date (Site)	<b>Sept 2022</b>	
Recent (last 4 wks) disease problems?			Any escapes (since last visit)?	<b>Y</b>	
If yes, detail:	<b>Gill health, bloom, AGD, CMS. Escape reported Dec 2020 (reported)</b>				

**Movement Records**

- 1. Movement records available for inspection? **Y**
- 2. Date of last inspection: **11/03/2020**
- 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. Are health certificates for introductions (outwith GB) available? **N/A**

**Transport Records**

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

**Mortality Records**

- 1. Mortality records available for inspection? **Y**
- 2. How are mortalities disposed of? **Ensiled - on site**
- If other detail: **Recent increase morts have required Fergusons uplift**
- 3. Mortality records complete and correctly entered? **Y**
- 4. Recent mortality (last 4 wks): **27/9-2/10 = 5,233 (1.18%), 4/10-6/10 = 345 (0.08%) (3 day figure) - attributed**
- 5. Evidence of recent increased/atypical mortalities? **Y**
- If yes, facility nos/no mortality per facility/no stock per facility/reason: **across whole site peaked at 29,321 fish or 6.28% in week 37 - Gill issues and plankton**
- 6. Any other peaks in mortality during period checked? **Y**
- If yes, detail: **Seal predation in Dec 2020/Jan 2021**
- 7. Have increased (unexplained) mortalities been reported to vet or FHI? **N/A**
- If yes, detail action: **[REDACTED]**
- 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)?	<input type="checkbox"/>	Y
If yes, detail:	FW - treatments	
If other, detail:		
2. Medicines records available for inspection?	<input type="checkbox"/>	Y
3. Are records complete and correctly entered?	<input type="checkbox"/>	Y
4. Are fish in a withdrawal period?	<input type="checkbox"/>	Y
5. If yes, what treatment(s)?	Tricaine	
If other, detail:		
6. Are medicines stored appropriately?	<input type="checkbox"/>	Y

**Biosecurity Records**

1. Biosecurity records available for inspection?	<input type="checkbox"/>	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	<input type="checkbox"/>	Y
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any <i>increased (unexplained)</i> mortality at the site been included?	<input type="checkbox"/>	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 <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	<input type="checkbox"/>	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)?	<input type="checkbox"/>	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.)?	<input type="checkbox"/>	Y
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	<input type="checkbox"/>	Y
8. Have the biosecurity procedures been adequately implemented on site?	<input type="checkbox"/>	Y
If no, detail:		

**Results of Surveillance**

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	<input type="checkbox"/>	Y
2. If yes, are results available for inspection?	<input type="checkbox"/>	Y
3. Any significant results?	<input type="checkbox"/>	Y
If yes, detail (if not detailed under recent disease problems).	abundant zooplankton in water, lice grazing	

Records checked between:	11/3/20 - 6/10/21
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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	P1							
Fish nos	1	2	3	4	1-4	5						
Pool Group	P1	P1	P1	P1								
Species	SAL	SAL	SAL	SAL	SAL	SAL						
Average weight	3Kg	3Kg	3Kg	3Kg	3Kg	4Kg						
Sex	N/A	N/A	N/A	N/A	N/A	N/A						
Water Type	SW	SW	SW	SW	SW	SW						
Stock Details												
		Girlsta	Girlsta	Girlsta	Girlsta	Girlsta	Geocrab					
Stock Origin												
Facility No	3	3	3	3	3	14						

10/2021 Additional Sample Information:

F1-4 sampled by VXR under supervision of ALW  
F5 sampled by ALW

5

Total Tests assigned

5


Case no: **2021-0383**

Site No: **FS0708**

Method of killing: **Anaesthetic**

Date of visit: **07/10/2021**

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)		1hr	1hr	1hr	1hr				
External Signs									
Behaviour	Moribund	W	W	W	W				
	Lethargic	M	M	M	M				
	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	W	M	M	M				
	Zoned								
	Necrotic			W	W				
Lesions	Flank	M							
	Elsewhere				M				
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	4	4				
	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								

Case no: Date of visit: 

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

Fish Number																				
Time sampled after death (if > 45 minutes)																				
External Signs																				
Behaviour	Moribund																			
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	Grey																			
	Granular																			
	Liquefied																			
General	Parasites present																			
	Anaemia																			



Additional comments:

Slightly poor gills but no internal signs except for vaccination related adhesions.

Case Number:	2021-0383	Site No:	FS0708	Insp:		
Date of Visit	07/10/2021	No of movements/supp./dest.			Score	
<b>Live fish movements</b>		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
<b>Exposure via water</b>	<b>Site contacts</b>	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		2
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6		0
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		0
<b>Management practices</b>		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				0
	Processing fish from MS of equivalent status	2				0
	Processing fish from zone or compartment of equivalent status	4				0
	Processing fish from Category III farm	8				0
	Processing fish from Category V farm	10				0
Disposal of fish and fish by-products	Site's own waste only processed.	0				0
	Common processes with other farms	3				0
	Collection point for waste from other farms	5				5
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0
	Feeding unpasteurised feed	5				0
<b>Biosecurity</b>	<b>Number of sites</b>	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				1
<b>CoGP/Regulator</b>						
Practices in accordance with regulator or industry code of practice	Yes	0				0
	No	3				0
Platform access to cages	Yes	0				0
	No	2				0
<b>Total Rank</b>					<b>23</b>	<b>MEDIUM</b>

Case No: **2021-0383**

Site No: **FS0708**

**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)
- top nets, seal pro      Seal blinds  
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: 2021-0383

Site No: FS0708

Date of Visit: 07/10/2021

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: **2021-0383** Date of visit: **07/10/2021**  
 Site No: **FS0708** Inspector: **[REDACTED]**

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
IHNP	0/1	13/10/2021		13/10/2021		29/10/2021		
IPNM	0/1	13/10/2021		13/10/2021		29/10/2021		
ISAP	0/1	13/10/2021		13/10/2021		29/10/2021		
SALP	1/1	13/10/2021		13/10/2021		29/10/2021		
VHSP	0/1	13/10/2021		13/10/2021		29/10/2021		
AGDQ	4/4	13/10/2021		13/10/2021		29/10/2021		
PNST	4/4	13/10/2021		13/10/2021		29/10/2021		
SPVP	3/4	13/10/2021		13/10/2021		29/10/2021		
PMVP	1/1	14/10/2021		15/10/2021		29/10/2021		
CMPS	3/4	18/10/2021		18/10/2021		29/10/2021		
SPVH	4/4	18/10/2021		18/10/2021		29/10/2021		
HPAT	3/4	18/10/2021		18/10/2021		29/10/2021		
GPAT	4/4	18/10/2021		18/10/2021		29/10/2021		
EPIT	2/4	18/10/2021		18/10/2021		29/10/2021		
CGDH	4/4	18/10/2021		18/10/2021		29/10/2021		
LPAT	2/4	18/10/2021		18/10/2021		29/10/2021		
AERO	4/4	25/10/2021		25/10/2021		29/10/2021		
VSPE	3/4	25/10/2021		25/10/2021		29/10/2021		
HAFC	1/4	25/10/2021		25/10/2021		29/10/2021		
UBAS	1/4	25/10/2021		25/10/2021		29/10/2021		

Report Summary			
Case Type	Date	Insp	2 <sup>nd</sup> Insp
ECI/CNI/SLI/VMD	13/10/2021		
DIA	29/10/2021		

# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

<b>BUSINESS No</b>	FB0169	<b>DATE OF VISIT</b>	07/10/2021
<b>SITE No</b>	FS0708	<b>SITE NAME</b>	Portree
<b>CASE No</b>	20210383	<b>INSPECTOR</b>	[REDACTED]

### Section 1: Summary

The site was visited following continued reports of elevated mortality levels. During the inspection, a number of lethargic fish were observed and four were removed for further examination and subsequent diagnostic sampling.

Histopathology examination revealed pathology consistent with cardiomyopathy syndrome (CMS) and salmon gill poxvirus. This was confirmed as a sample tested positive for piscine myocarditis virus (PMCV) by qPCR, while three fish were positive for salmon gill poxvirus. Mild hepatic necrosis and very mild gill pathology was also observed.

A sample tested positive for the presence of salmonid alphavirus (SAV).

Due to gill health issues observed on site, samples were also screened for *Paranucleospora theridion* (syn, *Desmozoon lepeophtherii*) and *Neoparamoeba perurans* (the causative agent of amoebic gill disease (AGD)). Samples tested positive for both pathogens.

*Hafnia alvei* was identified as pure heavy growth on the plate taken from kidney material of fish 3. This bacterium is known as a fish pathogen and would have been significant to the health of this individual fish.

*Aeromonas* sp. and *Vibrio* sp. were isolated, however the level of purity and growth would not suggest these bacteria are implicated 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

The site was inspected following continued reports of elevated mortality levels and to carry out a routine inspection. Increased mortalities had been attributed to gill health, jellyfish/plankton blooms, AGD and CMS.

Mortality levels have reduced significantly since freshwater treatments were completed on site and only a few moribund fish were observed during the inspection. Four fish were removed from pen 3 for diagnostic sampling as this pen had the highest overall mortality.

R09

All fish sampled were moribund and lethargic. All gills were slightly pale, and also mildly necrotic in fish 3 and 4. A lesion was present on the flank of fish 1 and there were abrasions on the belly of fish 4.

Internally, there were no clinical signs. Adhesions were present in all fish.

### Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
1, 2, 3, 4	1	3	Atlantic salmon	2020 S0 3.5 kg	Girlsta Hatchery (FS0504)

### Results

**Bacteriology:** Kidney and gill material from four fish and lesion material from one fish were inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated:

- *Hafnia alvei*
  - Fish 3 (Kidney)
- *Aeromonas* sp.
  - Fish 1-4 (Gill)
- *Vibrio* sp.
  - Fish 1 (Lesion)
  - Fish 2 and 4 (Kidney)
- Non fish pathogen (environmental)
  - Fish 1 (Lesion)

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

#### Salmonid alphavirus (SAV)

Pool Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
P1	17.95	29.30	29.24	29.59	POSITIVE

#### Piscine myocarditis virus (PMCV)

Pool Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
P1	16.66	16.21	16.33	16.19	POSITIVE



Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	18.83	34.12	33.77	33.75	POSITIVE
F2					NEGATIVE
F3	18.61	31.19	30.84	30.85	POSITIVE
F4	17.9	20.65	20.7	20.63	POSITIVE

Salmonid alphavirus (SAV) was sequenced and matched 100% at amino acid level to previous type 5 isolates.

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

*Neoparamoeba perurans* (AGD)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	18.83	32.3	34.24	33.66	POSITIVE
F2	18.07	35.29	35.69	35.02	POSITIVE
F3	18.61	32.00	32.07	32.39	POSITIVE
F4	17.9	34.12	33.13	33.16	POSITIVE

*Paranucleospora theridion*

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	18.83	26.77	26.85	26.85	POSITIVE
F2	18.07	27.78	27.84	27.69	POSITIVE
F3	18.61	28.05	28.22	28.5	POSITIVE
F4	17.9	22.54	22.69	22.51	POSITIVE

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

Histopathological examination revealed the following:

Gill: Few scattered fusion of lamellae, some individual lamellae displayed epithelial thickness (F1). One aneurysmal dilation/telangiectasia noted in all individuals (F1). F2 and F4 exhibited some bluntness of the gill filament and some vascular disturbance of lamellae. Several of basophilic epithelial inclusions (likely epitheliocystis) observed in F2 and F3. F4 also exhibited many apoptotic cells and some shedding off.

Skin & Muscle: Within the normal range.

Heart: F1 displayed marked myocardial mononuclear cell infiltration (endocarditis) and marked myocardial degeneration and necrosis in the atrium chamber. This chamber also exhibited a massive blood clot. The spongy layer of ventricle chamber also displayed the same feature but slightly less severe. Mild pericarditis also noted. F2 displayed multifocal cell infiltration in both chambers. F4 exhibited endocarditis but more moderate. F3: no atrium and bulbus in section.

Gut and pyloric caeca: One small focal area of inflammatory cell infiltration observed in the adipose tissue (F2). Some fibrous adhesions (likely associated with vaccine administration) (F1, F2, F4).

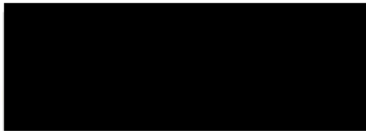
Pancreas: Within normal range.

Liver: Mild multifocal hepatic necrosis (F1), mild diffuse hepatocellular vacuolation (macrovisicules) (F4).

Kidney: Within normal range.

Spleen: Within normal range.

Signed:



Fish Health Inspector

Date: 29/10/2021

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <https://www.gov.scot/publications/fish-health-inspectorate-service-charter/>

# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

<b>BUSINESS No</b>	FB0169	<b>DATE OF VISIT</b>	07/10/2021
<b>SITE No</b>	FS0708	<b>SITE NAME</b>	Portree
<b>CASE No</b>	20210383	<b>INSPECTOR</b>	[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.

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.

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 Scotland 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.

R25

Samples were taken to be analysed for veterinary residues.

### **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 and containment and escapes.

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

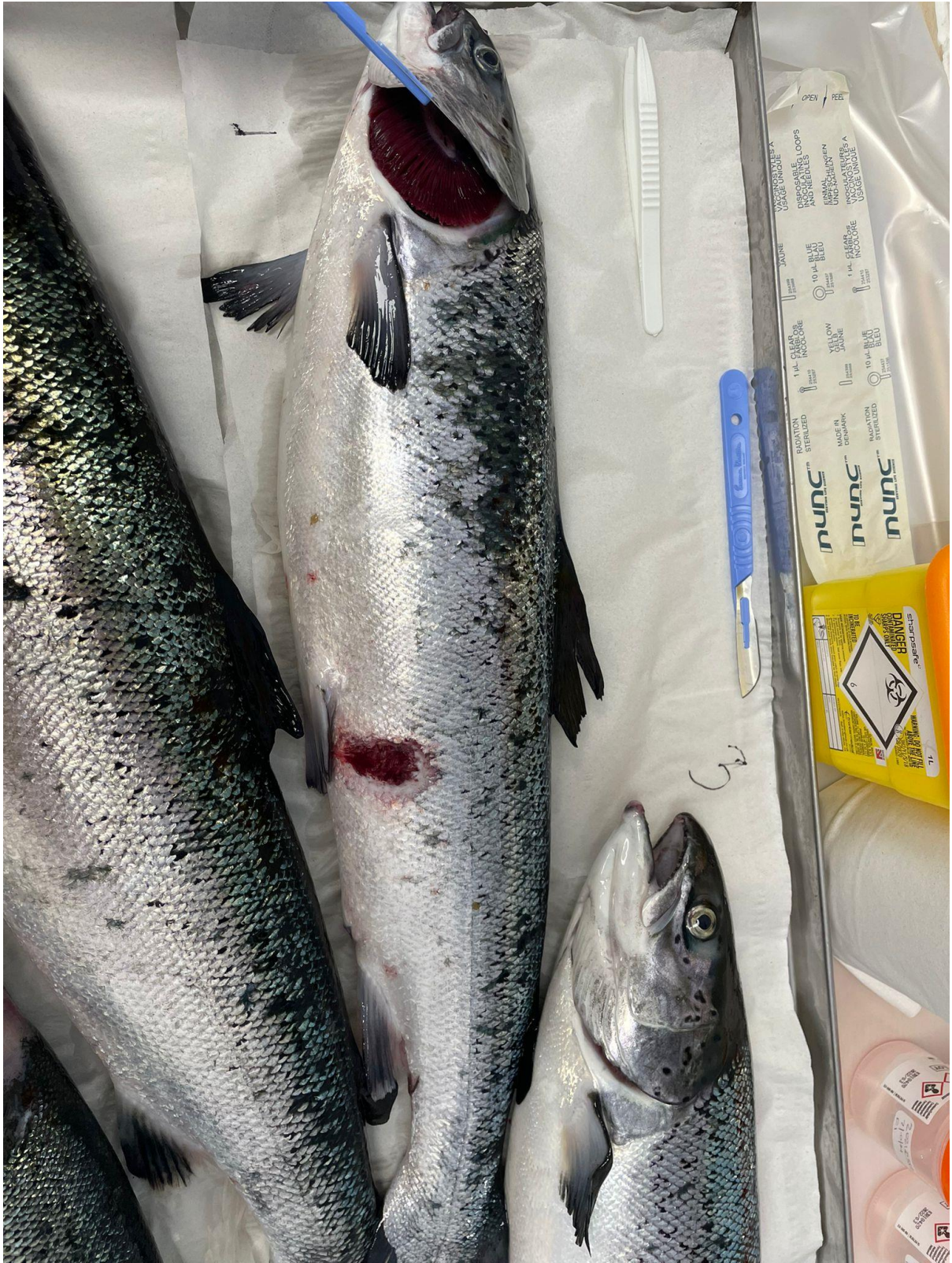
A large black rectangular redaction box covering the signature of the Fish Health Inspector.

Signed:

Date: 13/10/2021

Fish Health Inspector

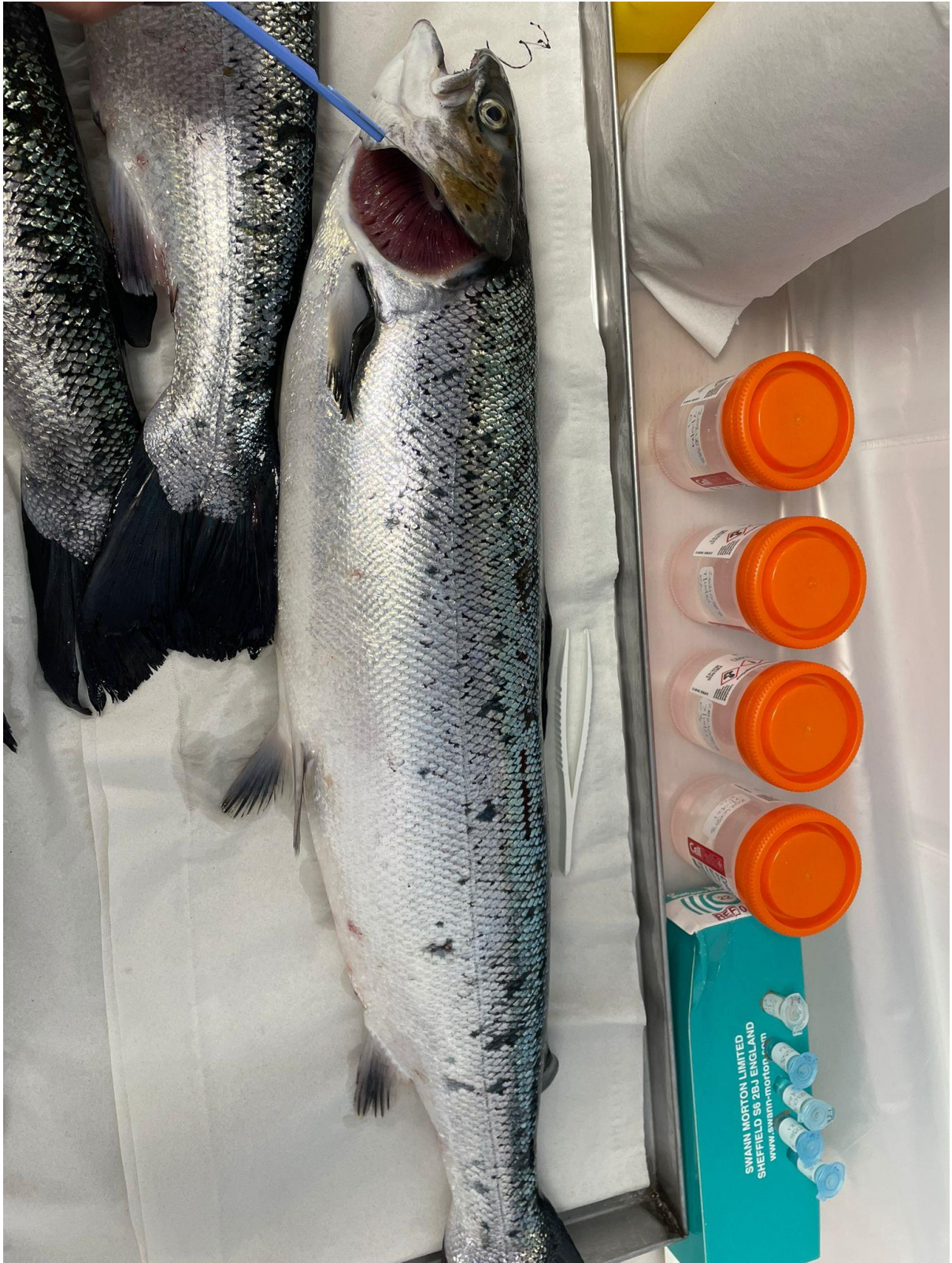
The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <https://www.gov.scot/publications/fish-health-inspectorate-service-charter/>



Fish 1



Fish 2



Fish 3



Fish 4





Fish 3



Fish 4

Case No: 2021-0384 Date of visit: 07/10/2021

Time spent on site: 2 hours Main Inspector:

Site No: FS1318 Site Name: Portree Outer  
Business No: FB0169 Business Name: The Scottish Salmon Company

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

Water Temp (°C): 12.7 Thermometer No: T148 FHI 045 completed

Observations: Region: HI Water type: S CoGP MA M-26

Dead/weak/abnormally behaving fish present? Y If yes, see additional information/clinical score sheet.  
Clinical signs of disease observed? N If yes, see additional information/clinical score sheet.  
Gross pathology 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:**

Increased mortalities at site due to jellyfish, plankton and associated gill health issues.

30/8-5/9 = 11,202 (3.37%) - Jellyfish/plankton, gill health

6/9 -12/9 = 14,443 (4.5%) - Jellyfish/plankton, gill health

13/9-19/9 = 16,817 (5.49%) - Jellyfish/plankton, gill health

20/9-26/9 = 5,144 (1.79%) - Gill health, bloom

Site currently harvesting live fish to Marybank in Stornoway.

Fish vet group visit 6/10/21 - this will be their 3rd visit to look at current issues on site. Reporting; Zooplankton, sea gooseberries, moon, crystal and lions mane jellyfish, cyanea sp and phialleda and other hydrozoa. Blooms have been observed onsite for many weeks starting in August and only clearing now.

Fish input 9/2020 - Russell burn, Loch Damph and Gairsta. Fish moved off site to West Strome in Jan 2021. Risk assessment completed.

SLICE on input every 8 weeks for first 10 months until June 2021. FW and mechanical treatments since then. Freshwater treatment at both sites just completed (three hour treatment for gill issues).

Normal practice to ensile waste on site. With increased mortalities currently have had to use Fergusons boat to remove some fish off whole to Mossbank or Dunfermline.

Lice figures peaked at 5.29 adult females 8/9/21, hydrolicer used and dropped to 0.95 for 17/9/21. Numbers had increased as they delayed lice treatments due to poor gill health over the summer. Last count 26/9/21 was 1.09 adult female. A FW treatment has been undertaken since then. Hydrolicer planned for next week.

Paperwork by [REDACTED], Site inspection by [REDACTED], VMD sampling 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="10"/>	Facilities stocked	<input type="text" value="7"/>	No facilities inspected	<input type="text" value="10"/>
Species	<input type="text" value="SAL"/>				
Age group	<input type="text" value="2020 S0"/>				
No Fish	<input type="text" value="280,515"/>				
Mean Fish Wt	<input type="text" value="3.6 kg"/>				
Next Fallow Date (Site)	<input type="text" value="May 2022"/>	Next Input Date (Site)	<input type="text" value="Sept 2022"/>		
Recent (last 4 wks) disease problems?		<input type="text" value="Y"/>	Any escapes (since last visit)?	<input type="text" value="N"/>	
If yes, detail:	<input type="text" value="Gill health, bloom, AGD, CMS"/>				

**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)?            | <input type="checkbox"/> | Y |
| If yes, detail:                                |                          |   |
| If other, detail: FW                           |                          |   |
| 2. Medicines records available for inspection? | <input type="checkbox"/> | Y |
| 3. Are records complete and correctly entered? | <input type="checkbox"/> | Y |
| 4. Are fish in a withdrawal period?            | <input type="checkbox"/> | Y |
| 5. If yes, what treatment(s)?                  | Tricaine                 |   |
| If other, detail:                              |                          |   |
| 6. Are medicines stored appropriately?         | <input type="checkbox"/> | Y |

**Biosecurity Records**

- |  |                          |   |
|--|--------------------------|---|
| 1. Biosecurity records available for inspection?   | <input type="checkbox"/> | Y |
| 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?   | <input type="checkbox"/> | Y |
| 3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any <i>increased (unexplained)</i> mortality at the site been included?   | <input type="checkbox"/> | 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 <i>how</i> and <i>when</i> that will be notified to Scottish Ministers? | <input type="checkbox"/> | 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)?  | <input type="checkbox"/> | 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.)?            | <input type="checkbox"/> | Y |
| 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?  | <input type="checkbox"/> | Y |
| 8. Have the biosecurity procedures been adequately implemented on site?  | <input type="checkbox"/> | Y |
| If no, detail:   |                          |   |

**Results of Surveillance**

- |   |                          |   |
|---|--------------------------|---|
| 1. Has any animal health surveillance been carried out by, or on behalf of, the business? | <input type="checkbox"/> | Y   |
| 2. If yes, are results available for inspection?  | <input type="checkbox"/> | Y   |
| 3. Any significant results?   | <input type="checkbox"/> | Y   |
| If yes, detail (if not detailed under recent disease problems).                           |                          | abundant zooplankton in water, lice grazing |

Records checked between:	11/3/20 - 6/10/21
--------------------------	-------------------

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													
Fish nos	1												
Pool Group													
Species	SAL												
Average weight	4Kg												
Sex	N/A												
Water Type	SW												
Stock Details		Geocrab Hatchery											
	Stock Origin												
Facility No	14												





Case Number:	2021-0384	Site No:	FS1318	Insp:		
Date of Visit	07/10/2021	No of movements/supp./dest.			Score	
<b>Live fish movements</b>		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
<b>Exposure via water</b>	<b>Site contacts</b>	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		2
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6		0
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		0
<b>Management practices</b>		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				0
	Processing fish from MS of equivalent status	2				0
	Processing fish from zone or compartment of equivalent status	4				0
	Processing fish from Category III farm	8				0
	Processing fish from Category V farm	10				0
Disposal of fish and fish by-products	Site's own waste only processed.	0				0
	Common processes with other farms	3				0
	Collection point for waste from other farms	5				5
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0
	Feeding unpasteurised feed	5				0
<b>Biosecurity</b>	<b>Number of sites</b>	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				1
<b>CoGP/Regulator</b>						
Practices in accordance with regulator or industry code of practice	Yes	0				0
	No	3				0
Platform access to cages	Yes	0				0
	No	2				0
<b>Total Rank</b>					<b>23</b> <b>MEDIUM</b>	

Case No: **2021-0384**

Site No: **FS1318**

**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 nets          seal blinds

If other, detail below:

Have ADD on site but not used and would require permission to be used.

- 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: 2021-0384

Site No: FS1318

Date of Visit: 07/10/2021

Inspector: [REDACTED]

**Point of Compliance**

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

 Y

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?

 Y

3. Is the current FMAg/S available for inspection?

 Y

4. Does the FMAg/S identify the relevant farm management area?

 Y

5. Does the FMAg/S identify the fish farm site(s) to which it applies?

 Y

6. Does the FMAg/S identify the date of commencement of the agreement or statement?

 Y

7. Does the FMAg/S identify the date of review?

 Y**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?

 Y

9. Does the FMAg/S identify the vaccination requirements for stocks held in the area or farm?

 Y

10. Does the FMAg/S identify the species of fish which may be stocked into the area or farm?

 Y

11. Does the FMAg/S identify the maximum stocking density of any pen on any farm in the area or the individual farm?

 Y

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?

 Y**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?

 Y

14. Does the FMAg/S identify the availability and the use of medicines on farms covered by the agreement of statement?

 Y

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?

 Y

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?

 Y

17. Does the FMAg/S identify the arrangements for synchronous treatments on farms within the area?

 Y**Live Fish Movements**

18. Does the FMAg/S identify the circumstances when live fish may be introduced or removed from the area or farm?

 Y

19. Does the FMAg/S identify the arrangements for the movement of live fish on and off sites in the area or individual farms?

 Y

**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?

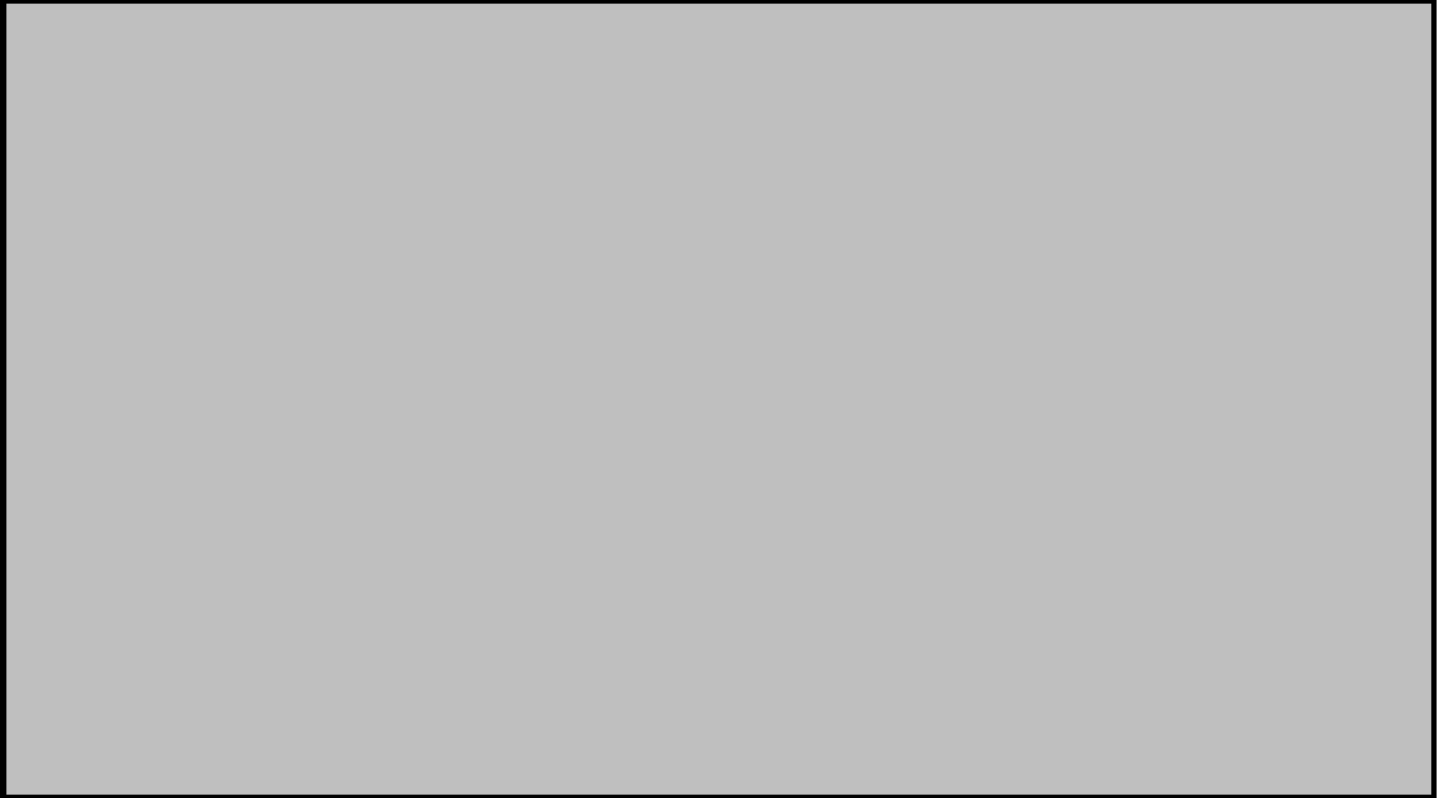
**Point of Compliance for Farm Management Agreements Only**

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:	<b>2021-0384</b>	Date of visit:	<b>07/10/2021</b>
Site No:	<b>FS1318</b>	Inspector:	<b>[REDACTED]</b>

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp

Report Summary			
Case Type	Date	Insp	2 <sup>nd</sup> Insp
ECI/CNI/SLI/VMD	13/10/2021		

# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

<b>BUSINESS No</b>	FB0169	<b>DATE OF VISIT</b>	07/10/2021
<b>SITE No</b>	FS1318	<b>SITE NAME</b>	Portree Outer
<b>CASE No</b>	20210384	<b>INSPECTOR</b>	██████████

### 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 no samples were taken for disease analysis. The Inspector did not observe any clinical signs associated with the listed diseases as described in the Aquatic Animal Health (Scotland) Regulations 2009.

#### 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.

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 Scotland 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

R25

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

### **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 and containment and escapes.

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

Signed:

A black rectangular box redacting the signature of the Fish Health Inspector.

Date: 13/10/21

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <https://www.gov.scot/publications/fish-health-inspectorate-service-charter/>

Case No: 2021-0385 Date of visit: 13/10/2021

Time spent on site: 3 hours Main Inspector: [Redacted]

Site No: FS0336 Site Name: Druimyeon Bay  
Business No: FB0169 Business Name: The Scottish Salmon Company

Case Types: 1 DIA 2 [ ] 3 [ ] 4 [ ] 5 [ ] 6 [ ]

Water Temp (°C): 13.6 Thermometer No: T146 FHI 045 completed [ ]

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

Dead/weak/abnormally behaving fish present?  If yes, see additional information/clinical score sheet.  
Clinical signs of disease observed?  If yes, see additional information/clinical score sheet.  
Gross pathology observed?  If yes, see additional information/clinical score sheet.  
Diagnostic samples taken?

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



**Additional Case Information:**

Lumpfish on site from Ocean matters. Salmon transferred from Gometra input March 2021 - Moved in freshwater wellboat. Cleaner fish were not transported in wellboat.

Morts - normally site boat and skipped at shore base. Due to increased morts Fergusons boat removal from site. Divers in daily to remove mort. Bakkanes - on board macerator. - numbers of fish on site will be reviewed following a fw well boat treatment.

PD runts earlier in the cycle. No SAV observed during current issues

Treatments; Salmosan treatment - June - 2 cages in wellboat. July - FW and Salmosan - all cages. hydrolicer treatment planed for this week. Hydrolicer 9/9/21.

There were a number of mortality disposal methods available for the two sites;

- Billy Bowie- whole in skips to Barkip Biogas (collection docs observed).
- Gogar – Energen Bio Gas- to Dunnswood Road, Cumbernauld (collection docs observed).
- They have a new well boat the Bakkanes - hydrolicer and macerator/Ensiler. Can hold 1000 cube of morts, current morts on-board of 200 cube. - material ensiled with formic acid. Then it will be pumped off into tankers and used as biofuel but uncertain currently of final destination. The boat was present during our visit.
- Fergusons boat for mort removal had been used but was not on site during our visit.

Collection docs were available for inspection from Billy Bowie and Gogar. Capacity for mort disposal was in my opinion adequate and staff numbers at the sites were increased to deal with the mortalities with staff being brought in from other areas. Divers were also present at the time of our visit for mortality removal.

Mort/site/wk; wk35 0.8 %, Wk36 1.5%, Wk37 1.1%, wk38 6.2%, Wk39 4.5%, Wk40 21.96%, Wk 41 7.29% - part week.

Lice is persistent at both sites treatments are giving 85-95% clearance but resettlement is fast and treating every 3-4 weeks. Seal ice peak 7.91 Caligus week 37.

No jellies observed in water samples. Upwell species were observed.

mortality started wk 38 - attributed to environmental insult and anaemia.

Paperwork - [REDACTED], Site inspection (under supervision) [REDACTED], Sample fish 1, 2 (under supervision)-[REDACTED] Sample Fish 3-5 [REDACTED]

Case No: **2021-0385** Site No: **FS0336**  
 Date of Visit: **13/10/2021** Inspector(s): **[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	<b>16</b>	Facilities stocked	<b>16</b>	No facilities inspected	<b>2</b>
Species	sal	lump			
Age group	2020So				
No Fish	362,046	50,000			
Mean Fish Wt	3.1				
Next Fallow Date (Site)	<b>2022 Q2</b>		Next Input Date (Site)	<b>2022 Q3</b>	
Recent (last 4 wks) disease problems?			Y	Any escapes (since last visit)?	N
If yes, detail:	<b>see additional info</b>				

**Movement Records**

- 1. Movement records available for inspection? **Y**
- 2. Date of last inspection: **26/05/2021**
- 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. Are health certificates for introductions (outwith GB) available? **N/A**

**Transport Records**

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

**Mortality Records**

- 1. Mortality records available for inspection? **Y**
- 2. How are mortalities disposed of? **Whole fish - Dundas Chemicals**
- If other detail: **see additional info for further mort disposal methods**
- 3. Mortality records complete and correctly entered? **Y**
- 4. Recent mortality (last 4 wks): **see additional info**
- 5. Evidence of recent increased/atypical mortalities? **Y**
- If yes, facility nos/no mortality per facility/no stock per facility/reason: **across site - attributed to environmental gill insult - multi factorial anaemia.**
- 6. Any other peaks in mortality during period checked? **N**
- If yes, detail: **[REDACTED]**
- 7. Have increased (unexplained) mortalities been reported to vet or FHI? **Y**
- If yes, detail action: **health visits undertaken and sample taken**
- 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:

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)?

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:

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	F5	P1						
Fish nos	1	2	3	4	5	1-5						
Pool Group	P1	P1	P1	P1	P1							
Species	SAL	SAL	SAL	SAL	SAL	SAL						
Average weight	3kg	3kg	3kg	3kg	3kg	3kg						
Sex												
Water Type	SW	SW	SW	SW	SW	SW						
Stock Details		Gometra	Gometra	Gometra	Gometra	Gometra						
	Stock Origin											
Facility No	12	12	11	11	11	11,12						

10/2021 Additional Sample Information:

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6	Total Tests assigned	5
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Case no: 2021-0385

Site No: FS0336

Method of killing: Percussive

Date of visit: 13/10/2021

Inspector(s):

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)										
External Signs										
Behaviour	Moribund	S	S	W	W	W				
	Lethargic	S	S	S	S	S				
	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	S	S	M						
	Zoned									
	Necrotic	M	M			M				
Lesions	Flank									
	Elsewhere									
Vent	Inflamed									
	Trailing faeces									
Lice Load	Estimate numbers	>30	>30	>10	>10	>10				
Internal Signs										
Ascites	Clear									
	Bloody									
Oedema	In tissues									
Heart	Pale/anaemic									
	Granulomas									
	Deformed									
Liver	Petechial haem									
	Gross haem									
	Tissue breakdown									
	Enlarged									
	Colour number(s)	1	2	6	6	6				
	Granulomas									
	Lesions									
Pyloric caeca	Petechial haem									
	Tubules mauve									
	Lack of fat									
Spleen	Enlarged									
	Granulomas									
Gut	No food present	S	S	S	S	S				
	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	S	S							

Case no: 2021-0385

Date of visit: 13/10/2021

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:

F1 and F2 - gills with pin prick haemorrhages. F2 and 3 were male grilse

F1 - evidence of lice damage on head area.



Site No: FS0336
Case No: 2021-0385
Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology



Case No: 2021-0385 Date of visit: 13/10/2021  
Site No: FS0336 Inspector: [REDACTED]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
MG_AGDQ	5/5	22/10/2021		22/10/2021		03/12/2021		
MG_PARA_THERA	5/5	22/10/2021		22/10/2021		03/12/2021		
MG_SAL_POX	5/5	22/10/2021		22/10/2021		03/12/2021		
Moritella viscosa	4/5	17/11/2021		01/12/2021		03/12/2021		
vibrio sp	4/5	17/11/2021		01/12/2021		03/12/2021		
GPAT	3/5	17/11/2021		01/12/2021		03/12/2021		
LPAT	2/5	17/11/2021		01/12/2021		03/12/2021		
SKIN	1/5	17/11/2021		01/12/2021		03/12/2021		
CGDH	3/5	17/11/2021		01/12/2021		03/12/2021		
VHS	0/1	03/12/2021				03/12/2021		
IHN	0/1	03/12/2021				03/12/2021		
SAV	0/1	03/12/2021				03/12/2021		
ISA	0/1	03/12/2021				03/12/2021		
IPN	1/1	03/12/2021				03/12/2021		

Report Summary			
Case Type	Date	Insp	2 <sup>nd</sup> Insp
Diag	03/12/2021		

# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

<b>BUSINESS No</b>	FB0169	<b>DATE OF VISIT</b>	13/10/2021
<b>SITE No</b>	FS0336	<b>SITE NAME</b>	Druimyeon Bay
<b>CASE No</b>	20210385	<b>INSPECTOR</b>	[REDACTED]

### Section 1: Summary

Druimyeon Bay was visited for a diagnostic health inspection following reports of significant mortality at the site. Five moribund fish were removed for diagnostic examination.

Histopathological examination revealed mild multifactorial proliferative branchitis. F3 displayed an absence of pancreatic acinar cell (possibly associated with salmonid alpha virus). Mild hepatic necrosis was noted in F1 and F4. F5 displayed bacterial ulcerative dermatitis.

Due to gill health issues observed on site, samples were screened for *Neoparamoeba perurans*, salmon gill poxvirus (SPGV) and *Paranucleospora theridion* (syn. *Desmozoon lepeophtherii*) by qPCR and tested positive for all three pathogens.

*Moritella viscosa* and *Vibrio* sp. identified on plates taken from kidney and lesion material. *M. viscosa* is a primary fish pathogen and the level and purity of growth observed was significant.

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

### Section 2: Case Detail

#### Observations

Druimyeon Bay was visited following reports of significantly increased mortalities starting in September 2021 and peaking at 47% mortality (148,628 fish) for the site in the week beginning 11/10/21. Mortalities had been attributed to environmental and gill health related issues.

On inspection moribund fish were observed in the pens and five were removed for diagnostic examination. Fish 1 to 3 exhibited pale gills and fish 1, 2 and 5 had necrotic gills. The gills of fish 1 and 2 also had petechial haemorrhaging. Lice numbers were in excess of 10 and all stages were present on all the fish removed for sampling and fish 1 and 2 had in excess of 30 lice. Fish 1 and 2 also appeared anaemic.

## Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
F1-2	1	12	Atlantic salmon	2020 S0 @ 3kg	Gometra
F3-5	1	11	Atlantic salmon	2020 S0 @ 3kg	Gometra

## Results

**Bacteriology:** Kidney, gill, and lesion material from five fish was inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated:

*Moritella viscosa* – F1-F3 (kidney); F5 (lesion)

*Vibrio* sp. - F1-F2, F4-F5 (Kidney); F5 (Lesion)

*Moritella viscosa* is a primary fish pathogen and the level and purity of growth observed was significant particularly in the lesion material from F5.

From the tests conducted, there is evidence which may indicate some resistance to florfenicol. There is no evidence of resistance to amoxicillin, oxytetracycline or sulphamethoxazole/trimethoprim.

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

Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	19.33	25.69	25.79	25.8	POSITIVE
F2	19.13	22.62	22.6	22.74	POSITIVE
F3	19.12	24.85	24.98	24.94	POSITIVE
F4	19.08	28.23	28.19	28.09	POSITIVE
F5	19.32	26.1	25.99	25.97	POSITIVE

Samples were screened for the presence of infectious haematopoietic necrosis virus (IHNV), infectious salmon anaemia virus (ISAV), infectious pancreatic necrosis virus (IPNV), salmonid alphavirus (SAV) and viral haemorrhagic septicemia virus (VHSV) by cell culture.

The samples tested positive for IPNV and was confirmed by PCR and sequencing as IPNV Sp with a low-moderate virulence motif.

The test results for the other pathogens were negative.

R09

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

Tel - 0131 244 3498 Fax - 0131 244 0944 Email - [ms.fishhealth@gov.scot](mailto:ms.fishhealth@gov.scot)

Website - [www.gov.scot/Topics/marine/science](http://www.gov.scot/Topics/marine/science)

## 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	19.33	31.05	31.01	31.08	POSITIVE
F2	19.13	29.59	29.71	29.74	POSITIVE
F3	19.12	26.09	25.97	26.08	POSITIVE
F4	19.08	28.22	28.27	27.69	POSITIVE
F5	19.32	27.97	27.9	27.87	POSITIVE

### *Paranucleospora theridion*

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	19.33	32.62	32.64	32.31	POSITIVE
F2	19.13	31.88	31.38	31.74	POSITIVE
F3	19.12	26.29	26.21	26.23	POSITIVE
F4	19.08	32.43	31.87	32.42	POSITIVE
F5	19.32	26.45	26.39	26.24	POSITIVE

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

Histopathological examination revealed the following:

Gill: Mild multifocal hyperplasia and lamellar fusion, some lacunae (some filled with cell debris) observed on the hyperplastic plaques (F1 & F2). F2 and F3 also displayed some gill filament bluntness and thrombi noted in the lamellar vessels. Free blood among gill filaments (F2, F3).

Skin & Muscle: Absence of epidermal layer. Some hypodermal cellular infiltration, mainly mononuclear inflammatory cells, and Gram-negative bacteria observed in the dermal layer and hypodermal layer (F5).

Heart: Within normal range.

Gut and pyloric caeca: Within normal range.

Pancreas: Absence of acinar cell around an island Langerhans and some mononuclear inflammatory cell infiltration (F3).

Liver: Mild multifocal necrosis (F1 & F4), some apoptotic cells also observed (F4), mild diffuse hepatocyte vacuolation (F4).

Kidney: Within normal range.

Signed:



Fish Health Inspector

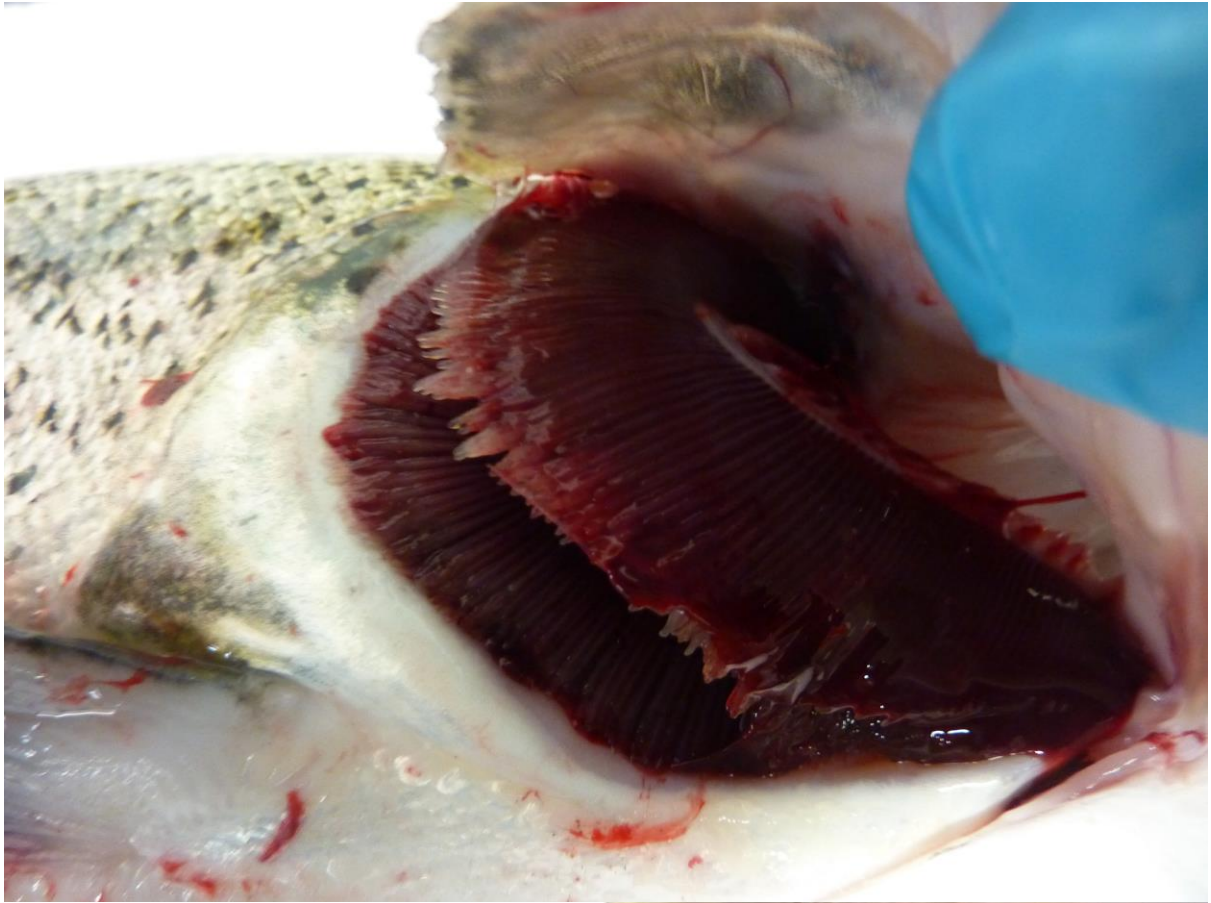
Date:09/12/2021

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <https://www.gov.scot/publications/fish-health-inspectorate-service-charter/>

R09

Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB  
Tel - 0131 244 3498 Fax - 0131 244 0944 Email - [ms.fishhealth@gov.scot](mailto:ms.fishhealth@gov.scot)  
Website - [www.gov.scot/Topics/marine/science](http://www.gov.scot/Topics/marine/science)





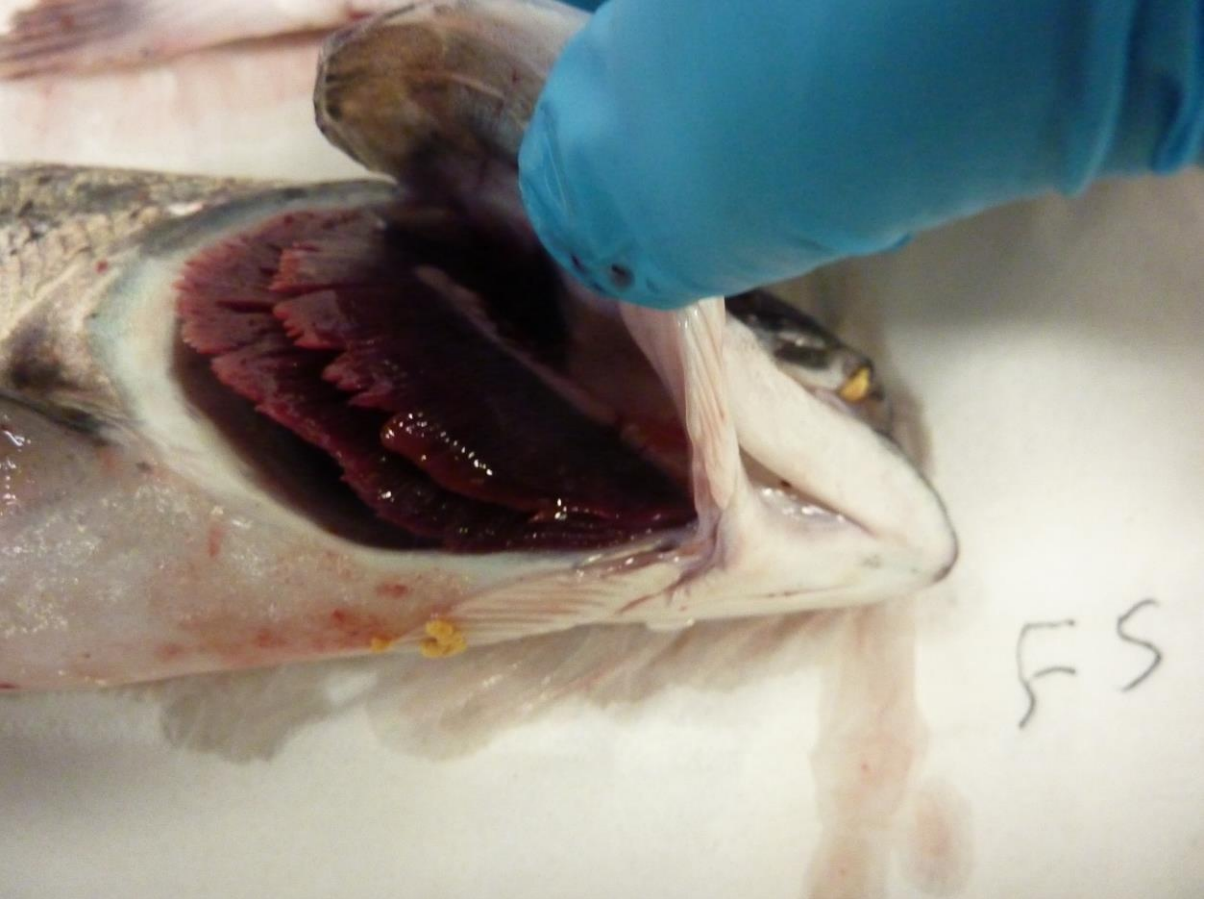














Case No: 2021-0387 Date of visit: 12/10/2021

Time spent on site: 0.5 hrs Main Inspector: [Redacted]

Site No: FS1314 Site Name: Roslin Institute Hatchery  
Business No: FB0568 Business Name: The Roslin Institute

Case Types: 1 REG 2 [ ] 3 [ ] 4 [ ] 5 [ ] 6 [ ]

Water Temp (°C): [ ] Thermometer No: [ ] FHI 045 completed [ ]

Observations: Region: CE Water type: F CoGP MA

Dead/weak/abnormally behaving fish present? [ ] If yes, see additional information/clinical score sheet.  
Clinical signs of disease observed? [ ] If yes, see additional information/clinical score sheet.  
Gross pathology observed? [ ] If yes, see additional information/clinical score sheet.  
Diagnostic samples taken? [ ]

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

Site fallow

**Additional Case Information:**

Site inspection conducted by [REDACTED] with [REDACTED] on 12/10/2021.

Only fish on site since last inspection were RTR OVA which came onto site 01/07/2021 from USA. These were not carried forward from the hatching stage though. Site was originally going to be de-registered but plans have changed for the time being. Site unsure when fish will be back on site as future research projects are currently unknown.



Case No: 2021-0387

Site No: FS1314

Date of Visit: 12/10/2021

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	1	Facilities stocked	0	No facilities inspected	1
Species					
Age group					
No Fish					
Mean Fish Wt					
Next Fallow Date (Site)	currently fallow		Next Input Date (Site)	unsure	
Recent (last 4 wks) disease problems?			N	Any escapes (since last visit)?	N
If yes, detail:					

**Movement Records**

- 1. Movement records available for inspection?
- 2. Date of last inspection: 29/08/2019
- 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? Incinerated - on site
- If other detail:
- 3. Mortality records complete and correctly entered?
- 4. Recent mortality (last 4 wks): 0
- 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)?	<input type="checkbox"/>
If yes, detail:	<input type="text"/>
If other, detail:	<input type="text"/>
2. Medicines records available for inspection?	<input type="checkbox"/>
3. Are records complete and correctly entered?	<input type="checkbox"/>
4. Are fish in a withdrawal period?	<input type="checkbox"/>
5. If yes, what treatment(s)?	<input type="text"/>
If other, detail:	<input type="text"/>
6. Are medicines stored appropriately?	<input type="checkbox"/>

**Biosecurity Records**

1. Biosecurity records available for inspection?	<input type="checkbox"/>
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	<input type="checkbox"/>
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any <i>increased (unexplained)</i> mortality at the site been included?	<input type="checkbox"/>
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	<input type="checkbox"/>
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?	<input type="checkbox"/>
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.)?	<input type="checkbox"/>
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	<input type="checkbox"/>
8. Have the biosecurity procedures been adequately implemented on site?	<input type="checkbox"/>
If no, detail:	<input type="text"/>

**Results of Surveillance**

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	<input type="checkbox"/>
2. If yes, are results available for inspection?	<input type="checkbox"/>
3. Any significant results?	<input type="checkbox"/>
If yes, detail (if not detailed under recent disease problems).	<input type="text"/>

Records checked between:	29/08/2019 - 12/10/2021
--------------------------	-------------------------

Case Number:	2021-0387	Site No:	FS1314	Insp:		
Date of Visit	12/10/2021	No of movements/supp./dest.			Score	
<b>Live fish movements</b>		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	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
<b>Exposure via water</b>	<b>Site contacts</b>	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		
<b>Management practices</b>		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				0
	Common processes with other farms	3				
	Collection point for waste from other farms	5				
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0
	Feeding unpasteurised feed	5				
<b>Biosecurity</b>	<b>Number of sites</b>	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		0
Disinfection of equipment between sites, use of footbaths etc	Yes	0				0
	No	1				
<b>CoGP/Regulator</b>						
Practices in accordance with regulator or industry code of practice	Yes	0				
	No	3				
Platform access to cages	Yes	0				0
	No	2				
<b>Total Rank</b>					<b>21</b>	<b>MEDIUM</b>

Case No: **2021-0387**

Site No: **FS1314**

**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) followed 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
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 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
15. Is there a site specific written lice management procedure with waypoints describing set actions to deal with recognised
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)

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?  N  
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: 2021-0387 Date of visit: 12/10/2021

Site No: FS1314 Inspector: ██████████

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp

Report Summary			
Case Type	Date	Insp	2 <sup>nd</sup> Insp
REG	20/10/2021		



## FISH HEALTH INSPECTORATE VISIT REPORT

### SUMMARY FOR INFORMATION OF SITE OPERATOR

<b>BUSINESS No</b>	FB0568	<b>DATE OF VISIT</b>	12/10/2021
<b>SITE No</b>	FS1314	<b>SITE NAME</b>	Roslin Institute Hatchery
<b>CASE No</b>	20210387	<b>INSPECTOR</b>	[REDACTED]

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

On this occasion, the site was found to be fallow, it was reported that it may be used in the future therefore, it will remain active on the FHI inspection schedule.

#### Records

The information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated.

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

Signed:

[REDACTED]

Date: 20/10/2021

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at [www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter](http://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter)

Case No: 2021-0388 Date of visit: 12/10/2021

Time spent on site: 0.5 hrs Main Inspector: [Redacted]

Site No: FS1347 Site Name: AGRF (Hatchery - RAS A)

Business No: FB0568 Business Name: The Roslin Institute

Case Types: 1 REG 2 [ ] 3 [ ] 4 [ ] 5 [ ] 6 [ ]

Water Temp (°C): [ ] Thermometer No: [ ] FHI 045 completed [ ]

Observations: Region: LO Water type: F CoGP MA

- Dead/weak/abnormally behaving fish present? If yes, see additional information/clinical score sheet.
- Clinical signs of disease observed? If yes, see additional information/clinical score sheet.
- Gross pathology observed? If yes, see additional information/clinical score sheet.
- Diagnostic samples taken?

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

Site fallow

**Additional Case Information:**

Site inspection carried out by [REDACTED] with [REDACTED] on 12/10/2021. .

Site fallow, unsure when next stock will be in. No mortality records to check as the 5000 SAL ova brought on site in April 2021 where culled once hatched. This has been the only stock on site so far. Future research projects currently unknown so unsure when fish will be next brought on site.



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 + hatch"/>	Facilities stocked	<input type="text" value="0"/>	No facilities inspected	<input type="text" value="17"/>
Species					
Age group					
No Fish					
Mean Fish Wt					
Next Fallow Date (Site)	<input type="text" value="currently fallow"/>	Next Input Date (Site)	<input type="text" value="unsure"/>		
Recent (last 4 wks) disease problems?	<input type="text" value="N/A"/>		Any escapes (since last visit)?	<input type="text" value="N"/>	
If yes, detail:	<input type="text"/>				

**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)?	
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 <i>increased (unexplained)</i> mortality at the site been included?	
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	
If no, detail:	

**Results of Surveillance**

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	
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:	first inspection
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Case Number:	2021-0388	Site No:	FS1347	Insp:		
Date of Visit	12/10/2021	No of movements/supp./dest.			Score	
<b>Live fish movements</b>		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	5
	Frequency of movements on from equivalent zone or compartment including third country	0	9	18	26	0
	Number of suppliers	0	5	10	14	5
Movements off	Frequency of movements off	0	3	6	10	0
	Number of destinations	0	3	6	10	0
<b>Exposure via water</b>	<b>Site contacts</b>	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		
<b>Management practices</b>		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				
<b>Biosecurity</b>	<b>Number of sites</b>	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				
<b>CoGP/Regulator</b>						
Practices in accordance with regulator or industry code of practice	Yes	0				
	No	3				3
Platform access to cages	Yes	0				0
	No	2				
<b>Total Rank</b>					<b>18</b>	<b>MEDIUM</b>



## FISH HEALTH INSPECTORATE VISIT REPORT

### SUMMARY FOR INFORMATION OF SITE OPERATOR

**BUSINESS No** FB0568  
**SITE No** FS1347  
**CASE No** 20210388

**DATE OF VISIT** 12/10/2021  
**SITE NAME** AGRF (Hatchery - RAS A)  
**INSPECTOR** [REDACTED]

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

On this occasion, the site was found to be fallow, it was reported that it may be used in the future therefore, it will remain active on the FHI inspection schedule.

#### Records

The information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated.

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

Signed: [REDACTED]

Fish Health Inspector

Date: 20/10/2021

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at [www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter](http://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter)

Case No: 2021-0389 Date of visit: 12/10/2021

Time spent on site: 0.5 hrs Main Inspector:

Site No: FS1353 Site Name: AGRF (RAS B)
Business No: FB0568 Business Name: The Roslin Institute

Case Types: 1 REG 2 3 4 5 6

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

Observations: Region: LO Water type: F CoGP MA

Dead/weak/abnormally behaving fish present?
Clinical signs of disease observed?
Gross pathology observed?
Diagnostic samples taken?
If yes, see additional information/clinical score sheet.

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

site fallow

**Additional Case Information:**

Site inspection conducted by [REDACTED] while accompanied by [REDACTED] on 12th October 2021.

Site currently fallow and has not been stocked since registration. Movement records were unavailable but was assured there have been no movements on or off site. No mortality records to check to date. Site correspondent unsure when site will be next stocked. Surveillance frequency to remain at medium as number of movements of fish from sources outwith GB currently unknown and hard to predict due to nature of research projects.

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="19"/>	Facilities stocked	<input type="text" value="0"/>	No facilities inspected	<input type="text" value="19"/>
Species	<input type="text" value="fallow"/>				
Age group					
No Fish					
Mean Fish Wt					
Next Fallow Date (Site)		Next Input Date (Site)	<input type="text" value="unsure"/>		
Recent (last 4 wks) disease problems?		<input type="text" value="N/A"/>	Any escapes (since last visit)?		<input type="text" value="N/A"/>
If yes, detail:	<input type="text" value=""/>				

**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)?	
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 <i>increased (unexplained)</i> mortality at the site been included?	
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	
If no, detail:	

**Results of Surveillance**

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	
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:	first inspection
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Case Number:	2021-0389	Site No:	FS1353	Insp:		
Date of Visit	12/10/2021	No of movements/supp./dest.			Score	
<b>Live fish movements</b>		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	0
	Number of destinations	0	3	6	10	0
<b>Exposure via water</b>	<b>Site contacts</b>	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		
<b>Management practices</b>		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				
<b>Biosecurity</b>	<b>Number of sites</b>	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		0
Disinfection of equipment between sites, use of footbaths etc	Yes	0				0
	No	1				
<b>CoGP/Regulator</b>						
Practices in accordance with regulator or industry code of practice	Yes	0				
	No	3				3
Platform access to cages	Yes	0				0
	No	2				
<b>Total Rank</b>					<b>7</b>	<b>LOW</b>

Case No:  Date of visit:   
 Site No:  Inspector:

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp

Report Summary			
Case Type	Date	Insp	2 <sup>nd</sup> Insp
REG	20/10/2021		

## FISH HEALTH INSPECTORATE VISIT REPORT

### SUMMARY FOR INFORMATION OF SITE OPERATOR

**BUSINESS No** FB0568  
**SITE No** FS1353  
**CASE No** 20210389

**DATE OF VISIT** 12/10/2021  
**SITE NAME** AGRF (RAS B)  
**INSPECTOR** [REDACTED]

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

On this occasion, the site was found to be fallow, it was reported that it may be used in the future therefore, it will remain active on the FHI inspection schedule.

#### Records

The information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated.

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

Signed: [REDACTED]

Fish Health Inspector

Date: 20/10/2021

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at [www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter](http://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter)