

Case No:	<input type="text" value="2021-0451"/>	Date of visit:	<input type="text" value="04/11/2021"/>			
Time spent on site:	<input type="text" value="2hrs"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="FS1281"/>	Site Name:	<input type="text" value="Sgian Dubh"/>			
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="DIA"/>	3 <input type="text" value=""/>	4 <input type="text" value=""/>	5 <input type="text" value=""/>	6 <input type="text" value=""/>
Water Temp (°C):	<input type="text" value="12.7"/>	Thermometer No:	<input type="text" value="T173"/>	FHI 045 completed	<input type="text" value=""/>	
Observations:	Region:	ST	Water type:	S	CoGP MA	M-45
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:**

Inspection conducted by [REDACTED], observed by [REDACTED].

The main population looked healthy, feeding deep in the water column. One dead fish and a small number of lethargic fish observed. One moribund seen in pen 8 and taken out for diagnostic sampling.

The site has been inspected on the 15/07/2021 but the water temperature was found to be above 14 degrees Celsius. So full ECI could not be completed. Case type changed to REG, CNI, SLI. Biosecurity, containment and sea lice records were found to be adequately maintained and therefore they have not been inspected again.

Case No: **2021-0451** Site No: **FS1281**  
 Date of Visit: **04/11/2021** 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>16</b>
Species	<b>SAL</b>	<b>Wrasse</b>			
Age group	<b>21S1</b>	<b>Wild</b>			
No Fish	<b>802,385</b>	<b>36,517</b>			
Mean Fish Wt	<b>2.1kg</b>	<b>Mixed</b>			
Next Fallow Date (Site)	<b>July 2022</b>		Next Input Date (Site)	<b>January 2023</b>	
Recent (last 4 wks) disease problems?		<b>N</b>	Any escapes (since last visit)?		<b>N</b>
If yes, detail:	<b>[REDACTED]</b>				

**Movement Records**

1. Movement records available for inspection? **Y**  
 2. Date of last inspection: **15/07/2021**  
 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)? **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? **Whole fish - Dundas Chemicals**  
 If other detail: **[REDACTED]**  
 3. Mortality records complete and correctly entered? **Y**  
 4. Recent mortality (last 4 wks): **2021**  
 5. Evidence of recent increased/atypical mortalities? **N**  
 If yes, facility nos/no mortality per facility/no stock per facility/reason: **[REDACTED]**  
 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? **N/A**  
 If yes, detail action: **[REDACTED]**  
 8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet. **N/A**

**Treatments and Medicines Records**

1. Recent treatments (see comment)?	<input type="checkbox"/>	Y
If yes, detail:	Slice	
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"/>	N
5. If yes, what treatment(s)?		
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"/>	N/A
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"/>	N/A
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"/>	N/A
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"/>	N/A
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"/>	N/A
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	<input type="checkbox"/>	N/A
8. Have the biosecurity procedures been adequately implemented on site?	<input type="checkbox"/>	N/A
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).	AGD	

Records checked between:	15/07/2021 - 29/10/2021
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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	P1										
Fish nos	1	1										
Pool Group	P1	P1										
Species	SAL	SAL										
Average weight	2.1kg	2.1kg										
Sex	N/A	N/A										
Water Type	SW	SW										
Stock Details		Landcatch Ormsary	Landcatch Ormsary									
	Stock Origin											
Facility No	8	8										









Additional comments:

Mild vaccination adhesions.



# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

<b>BUSINESS No</b>	FB0169	<b>DATE OF VISIT</b>	04/11/2021
<b>SITE No</b>	FS1281	<b>SITE NAME</b>	Sgian Dubh
<b>CASE No</b>	20210451	<b>INSPECTOR</b>	[REDACTED]

### Section 1: Summary

During a routine site inspection a moribund fish was observed and removed for further examination and subsequent diagnostic sampling.

Histopathology examination revealed non-specific, mild proliferative branchitis. Pathology was also consistent with presence of epitheliocystis (likely *Candidatus Branchiomonas cysticola*) and amoebic gill disease (AGD). This was confirmed as the gill sample tested positive for *Neoparamoeba perurans* (the causative agent of AGD) by qPCR.

Due to gill health issues observed on site, the fish was also screened for *Paranucleospora theridion* (syn, *Desmozoon lepeophtherii*), and salmon gill poxvirus (SGPV). The sample tested positive for both 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

During a routine site inspection a small number of lethargic fish were observed. One moribund fish was removed for further examination and subsequent diagnostic sampling.

The fish was slightly anorexic and the gills appeared pale and zoned. Internally, the spleen and kidney were slightly enlarged. There was lack of fat within the pyloric caeca and the tubules appeared mauve. Finally, there was the presence of yellow pseudo-faeces in the hind gut and vaccination adhesions in the body cavity.

#### Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
1	1	8	Atlantic Salmon	2021 S1 2.1kg	Ormsary Broodstock Unit (FS0090)

## Results

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

*Vibrio* sp. was identified on the plate taken from gill material, the level and purity of growth would not suggest this bacterium would be a primary pathogen in this case.

**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	21.66	30.47	30.26	30.47	POSITIVE

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

**Parasitology:** Gill tissue was 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	21.66	30.78	30.78	30.92	POSITIVE

### *Paranucleospora theridion*

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.66	26.18	26.00	26.11	POSITIVE

**Histology:** Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen, and kidney were taken from one 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, prominent goblet cells and chloride cells displacement. Few amoeboid cells resembling *Neoparamoeba perurans* and basophilic epithelial inclusions (likely epitheliocystis). Several aneurysmal dilations and thrombi observed in the lamellar vessels of all fish.

Skin & Muscle: Within normal range.

Heart: Within normal range.

R09

Gut and pyloric caeca: presence of some fibrous adhesions (potentially associated with vaccine administration).

Pancreas: Within normal range.

Liver: Moderate diffuse hepatic vacuolation.

Kidney: Within normal range.

Spleen: Foci of cellular necrosis.

Signed:

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

Fish Health Inspector

Date: 18/11/2021

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>	04/11/2021
<b>SITE No</b>	FS1281	<b>SITE NAME</b>	Sgian Dubh
<b>CASE No</b>	20210451	<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. Samples were taken for diagnostic purposes. A separate report will be issued detailing the results of these tests.

#### Records

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.

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

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

### 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.

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

Signed:



Fish Health Inspector

Date: 12/11/2021

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/>