

Case No: 2020-0335 Date of visit: 21/08/2020

Time spent on site: 4 hrs Main Inspector:

Site No: FS0800 Site Name: Leinish
Business No: FB0440 Business Name: Grieg Seafood Shetland Ltd

Case Types: 1 DIA 2 VMD 3 4 5 6

Water Temp (°C): 13.9 Thermometer No: T153 FHI 045 completed

Observations: Region: HI Water type: S CoGP MA M-25

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:

Additional Case Information:

Week 33 - 107700 - 27.65%

Week 32 - 5400 - 1.37% - Not reported.

Week 31 - 3726 - 0.93% -

Week 30 - 3124 - 0.78%

Mortalities attributed to CGD and jellyfish.

Planning to go in with freshwater next week to treat gills, had previously been treating with peroxide and salmosan.

The vet is on site today (21st August) waiting for histo results, and then a vet report will be sent out in the next few days regarding the current on site mortality.

Fish were observed shoaling well deeper in the water. Although a lot of fish were observed which appeared lethargic, these fish were very reactive and swam off quickly. 8 dead observed across site, with exception of cage 8 where 20 dead were observed on surface, not fresh dead, these were removed by site staff at the time of inspection. The site staff that usually operate at this site were assisting with a FW treatment at Gob na Hoe, and were due to return to site in the afternoon to do daily checks.

Jellyfish numbers increased quickly over a short period of time, resulting in the high losses week 33, mortality numbers were decreasing, but still elevated. A FW treatment was due to be conducted during week 34/35, it was hoped that this would help alleviate some of the losses due to gill issues. If the FW treatment isn't successful, the Norwegian Gannet is booked for early September and will harvest the whole site over a few days.

Uncertain of future stocking of sites within the DMA.

DELAY IN ISSUING REPORT, SITE HAS BEEN TRANSFERRED TO A DIFFERENT APB,
APB AT TIME OF INSPECTION NOW DEREGISTERED. NO REPORT ISSUED

Paperwork by [REDACTED]

Site inspection and sampling by [REDACTED] accompanied by APHA

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="9"/>	No facilities inspected	<input type="text" value="9"/>
Species	<input type="text" value="SAL"/>				
Age group	<input type="text" value="S0's"/>				
No Fish	<input type="text" value="250,064"/>				
Mean Fish Wt	<input type="text" value="2.2"/>				
Next Fallow Date (Site)	<input type="text" value="March 2021"/>	Next Input Date (Site)	<input type="text" value="august 2021 (under review)"/>		
Recent (last 4 wks) disease problems?		Any escapes (since last visit)?	<input type="text" value="Y"/>		<input type="text" value="N"/>
If yes, detail:	<input type="text" value="CGD in fish exsasserbated by jellyfish bloom. Vet investigating."/>				

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)? Y
 If yes, detail: Peroxide Salmosan TMS
 If other, detail: FW
 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)? TMS Salmosan
 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).

12/08/2020 - Moderate to severe gill pathology detected in all fish. Evidence of previous CMS infection - non detected.
 Records checked between: 06/07/2020-21/08/2020

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	6						
Pool Group	P1	P1	P1	P1									
Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL						
Average weight	2.2000	2.2000	2.2000	2.2000	0.2000	2.2000	2.2000						
Sex	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
Water Type	SW	SW	SW	SW	SW	SW	SW						
Stock Details		Girlista Hatchery	Girlista Hatchery	Girlista Hatchery	Girlista Hatchery	Girlista Hatchery	Girlista Hatchery	Girlista Hatchery					
	Stock Origin												
Facility No	5	5	6	10	mix	5	6						

08/2020 Additional Sample Information:

--	--

5 Total Tests assigned 3

Case no: 2020-0335

Site No: FS0800

Method of killing: Anaesthetic

Date of visit: 21/08/2020

Inspector(s):

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								
	Lethargic		M	M					
	Hanging vertical				M				
	Spiralling								
	Flashing								
	Loss of equilibrium								
Body	Dark								
	Distended abdomen								
	Anorexic				W				
	Scale Oedema								
Opercula	Shortened								
	Flared								
Haemorrhaging	Throat								
	Ventrum								
	Base of fins								
	Elsewhere								
Eyes	Exophthalmic								
	Enophthalmic (sunken)								
	Cataract								
Gills	Haemorrhagic								
	Pale								
	Zoned								
Lesions	Necrotic								
	Flank								
	Elsewhere								
Vent	Inflamed								
	Trailing faeces								
Lice Load	Estimate numbers	10	10	10	10				
Internal Signs									
Ascites	Clear								
	Bloody	W	W						
Oedema	In tissues								
Heart	Pale/anaemic								
	Granulomas								
	Deformed								
Liver	Petechial haem								
	Gross haem	W			W				
	Tissue breakdown								
	Enlarged								
Pyloric caeca	Colour number(s)	6	6	5	5				
	Granulomas								
	Lesions								
	Petechial haem								
Spleen	Tubules mauve				W				
	Lack of fat		M		M				
	Enlarged				M				
Gut	Granulomas								
	No food present								
	Yellow pseudo-faeces		W	W	W				
Body wall	External haem								
	Internal haem								
Swim bladder	Haemorrhaging								
	Fluid filled								
Kidney	Swollen								
	Grey								
	Granular								
	Liquefied								
General	Parasites present								
	Anaemia								

Case no: 2020-0335

Date of visit: 21/08/2020

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:

Site No: FS0800

Case No: 2020-0335

Nature of non-compliance:

Action taken (FHI):

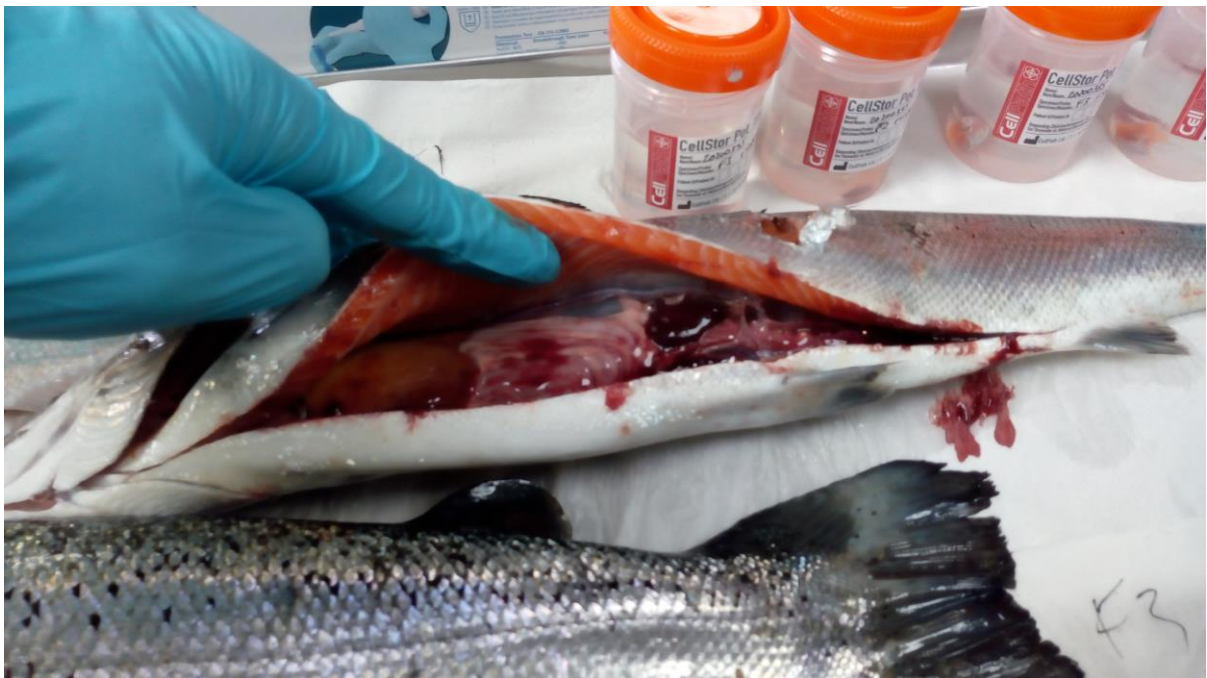
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology



Fish 1 to Fish 4



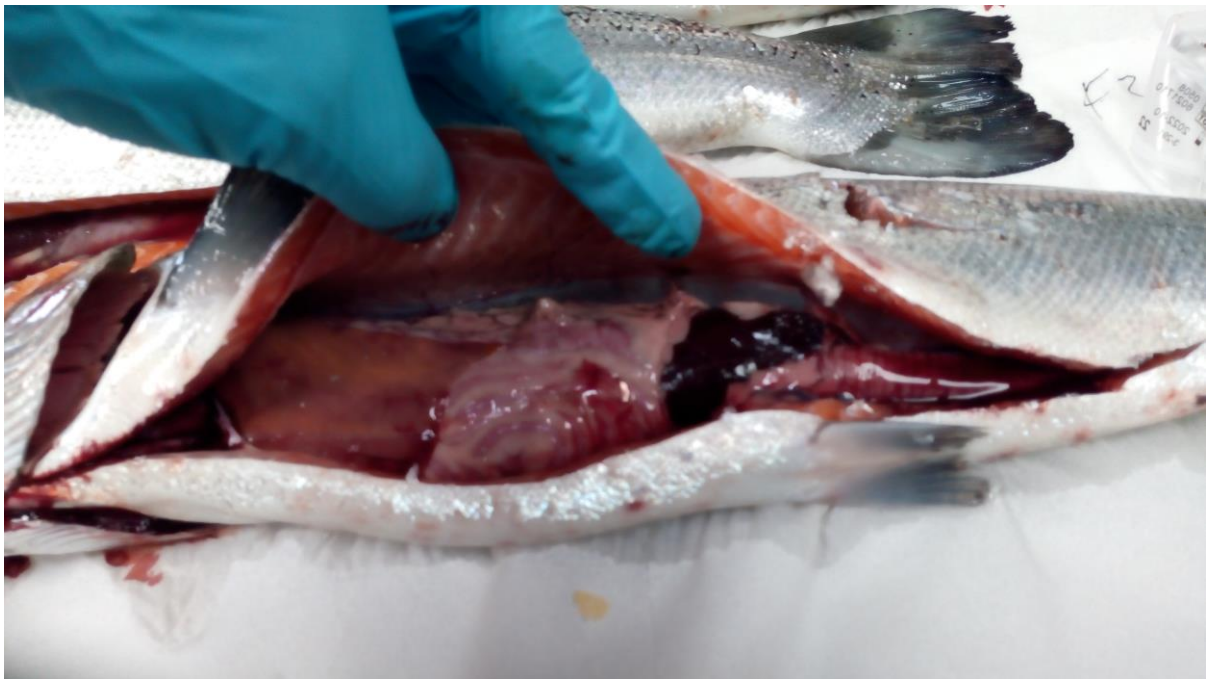
Fish 1 – Internal



Fish 2 – Internal



Fish 3 – Internal



Fish 4 internal