

Case No:	<input type="text" value="2021-0052"/>	Date of visit:	<input type="text" value="19/05/2021"/>			
Time spent on site:	<input type="text" value="7 hrs"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="FS0602"/>	Site Name:	<input type="text" value="Sconser"/>			
Business No:	<input type="text" value="FB0119"/>	Business Name:	<input type="text" value="Mowi Scotland Ltd"/>			
Case Types:	1 <input type="text" value="ECI"/>	2 <input type="text" value="CNI"/>	3 <input type="text" value="SLI"/>	4 <input type="text" value="VMD"/>	5 <input type="text" value="DIA"/>	6 <input type="text" value=""/>
Water Temp (°C):	<input type="text" value="9.6"/>	Thermometer No:	<input type="text" value="T153"/>	FHI 045 completed	<input type="text" value=""/>	
Observations:	Region:	HI	Water type:	S	CoGP MA	M-28
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:**

Paperwork completed remotely 18/05/21 by [REDACTED] Site inspection by [REDACTED] shadowed by [REDACTED], diagnostic and VMD sampling by [REDACTED], observed by [REDACTED].

This cycle of fish is due to be final cycle on the Sconser site, now that Sconser Quarry is in operation. Sconser is organic site and only treated with hydrogen peroxide and thermolizer this cycle. Sea lice numbers have remained low, site stocked with both wrasse (wild and farmed) and Lumpfish, these have reported been working well. Site also uses Environets and this removes the need for net washing, with nets swapped usually every 14 days. Very good visibility at time of inspection.

15+ moribund fish observed per cage, site has reported CMS, although mortalities have been relatively low. A high percentage have eye damage, the cause of this is still being investigated by the Mowi health team and a visit was scheduled for later this week. The cages with higher mortalities are going to be prioritised for harvesting.

4 fish removed for diagnostic sampling, 3 fish sampled for VMD appeared healthy and in good condition.

Only H2O2 or thermolizer used on site, targeting specific pens, last treatments were conducted in Jan 2021.

Wrasse mortality - Wk 16 - 122 for site, WK 17 - 109 for site, WK 18 - 174 for site, WK 19 - 170 for site

Lumpfish mortality - WK 16 - 438 for site, WK 17 - 413 for site, WK 18 - 465 for site, WK 19 - 456 for site

Case No: **2021-0052** Site No: **FS0602**  
 Date of Visit: **19/05/2021** 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>12</b>	Facilities stocked	<b>11</b>	No facilities inspected	<b>12</b>
Species	<b>SAL WRA</b>	LUM			
Age group	<b>2020 Q2</b>	Mix	2020		
No Fish	<b>247,200</b>	10,372	27,269		
Mean Fish Wt	<b>3.8kg</b>	Mix	Mix		
Next Fallow Date (Site)	<b>Aug/Sept 2021</b>		Next Input Date (Site)	<b>No Plans</b>	
Recent (last 4 wks) disease problems?			N	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: **02/11/2020**  
 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? **Y**

**Transport Records**

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

**Mortality Records**

1. Mortality records available for inspection? **Y**  
 2. How are mortalities disposed of? **Ensiled - on site**  
 If other detail: **[REDACTED]**  
 3. Mortality records complete and correctly entered? **Y**  
 4. Recent mortality (last 4 wks): **WK 19 - 1,668 (0.67%) (1,404 attributed to CMS), WK 18 - 1,826 (0.68%)**  
 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:	T.M.S.	
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)?	T.M.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"/>	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).	CMS	

Records checked between:	02/11/20 to 18/05/21
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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	6	7				
Pool Group	P1	P1	P1	P1								
Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL				
Average weight	3.8 kg	3.8 kg	3.8 kg	3.8 kg	3.8 kg	3.8 kg	3.8 kg	3.8 kg				
Sex	N/A	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		Mowi Ireland - Altan Freshwater Unit	Mowi Ireland - Altan Freshwater Unit	Mowi Ireland - Altan Freshwater Unit	Mowi Ireland - Altan Freshwater Unit	Mowi Ireland - Altan Freshwater Unit	Mowi Ireland - Altan Freshwater Unit	Mowi Ireland - Altan Freshwater Unit				
	Stock Origin											
Facility No	45	45	41	41	Mix	41	45	48				

05/2021 Additional Sample Information:

5

Total Tests assigned

2


Case no: 2021-0052

Site No: FS0602

Method of killing: Percussive

Date of visit: 19/05/2021

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)		60	70	80	90				
<b>External Signs</b>									
Behaviour	Moribund	S	S	S	S				
	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			W	W				
	Zoned								
	Necrotic								
Lesions	Flank								
	Elsewhere								
Vent	Inflamed								
	Trailing faeces								
Lice Load	Estimate numbers	5	30	10	10				
<b>Internal Signs</b>									
Ascites	Clear								
	Bloody								
Oedema	In tissues								
Heart	Pale/anaemic								
	Granulomas								
	Deformed								
Liver	Petechial haem								
	Gross haem	W	M						
	Tissue breakdown								
	Enlarged								
	Colour number(s)	5	6	4	4				
	Granulomas								
	Lesions								
Pyloric caeca	Petechial haem								
	Tubules mauve								
	Lack of fat								
Spleen	Enlarged	W							
	Granulomas								
Gut	No food present	M	M	M	M				
	Yellow pseudo-faeces	W	W	W	W				
	External haem								
	Internal haem			W					
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 weak presence

<b>Fish Number</b>													
Time sampled after death (if > 45 minutes)													
<b>External Signs</b>													
Behaviour	Moribund												
	Lethargic												
	Hanging vertical												
	Spiralling												
	Flashing												
	Loss of equilibrium												
Body	Dark												
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	Scale Oedema												
Opercula	Shortened												
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Haemorrhaging	Throat												
	Ventrum												
	Base of fins												
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Gills	Pale												
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	Necrotic												
Lesions	Flank												
	Elsewhere												
Vent	Inflamed												
	Trailing faeces												
Lice Load	Estimate numbers												
<b>Internal Signs</b>													
Ascites	Clear												
	Bloody												
Oedema	In tissues												
Heart	Pale/anaemic												
	Granulomas												
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Liver	Petechial haem												
	Gross haem												
	Tissue breakdown												
	Enlarged												
	Colour number(s)												
Pyloric caeca	Granulomas												
	Lesions												
	Petechial haem												
	Tubules mauve												
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Swim bladder	Haemorrhaging												
	Fluid filled												
Kidney	Swollen												
	Grey												
	Granular												
	Liquefied												
General	Parasites present												
	Anaemia												



Additional comments:

Case Number:	2021-0052	Site No:	FS0602	Insp:		
Date of Visit	19/05/2021	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	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				3
	Collection point for waste from other farms	5				0
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		0
Disinfection of equipment between sites, use of footbaths etc	Yes	0				0
	No	1				0
<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>29</b>	<b>HIGH</b>

Case No:

Site No:

**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
- 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)

Top net, tensioned net

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: 2021-0052

Site No: FS0602

Date of Visit: 19/05/2021

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: 2021-0052 Date of visit: 19/05/2021  
Site No: FS0602 Inspector: [REDACTED]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
IHNQ	0/1	26/05/2021	[REDACTED]	[REDACTED]	[REDACTED]	12/12/2022	[REDACTED]	[REDACTED]
IPNQ	0/1	26/05/2021	[REDACTED]	[REDACTED]	[REDACTED]	12/12/2022	[REDACTED]	[REDACTED]
ISAQ	0/1	26/05/2021	[REDACTED]	[REDACTED]	[REDACTED]	12/12/2022	[REDACTED]	[REDACTED]
SAVQ	0/1	26/05/2021	[REDACTED]	[REDACTED]	[REDACTED]	12/12/2022	[REDACTED]	[REDACTED]
VHSQ	0/1	26/05/2021	[REDACTED]	[REDACTED]	[REDACTED]	12/12/2022	[REDACTED]	[REDACTED]
PMVP	1/1	31/05/2021	[REDACTED]	[REDACTED]	[REDACTED]	12/12/2022	[REDACTED]	[REDACTED]
NSIG	4/4	31/05/2021	[REDACTED]	[REDACTED]	[REDACTED]	12/12/2022	[REDACTED]	[REDACTED]
CMPS	2/4	31/05/2021	[REDACTED]	[REDACTED]	[REDACTED]	12/12/2022	[REDACTED]	[REDACTED]
HPAT	2/4	31/05/2021	[REDACTED]	[REDACTED]	[REDACTED]	12/12/2022	[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]
			[REDACTED]	[REDACTED]	[REDACTED]		[REDACTED]	[REDACTED]

Report Summary			
Case Type	Date	Insp	2 <sup>nd</sup> Insp
ECI, CNI, SLI, VMD	26/05/2021	[REDACTED]	[REDACTED]
DIA	12/12/2022	[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]
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		[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]

# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

<b>BUSINESS No</b>	FB0119	<b>DATE OF VISIT</b>	19/05/2021
<b>SITE No</b>	FS0602	<b>SITE NAME</b>	Sconser
<b>CASE No</b>	20210052	<b>INSPECTORS</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.

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 surveillance frequency category of the site was assessed as high. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted annually. The category of the site will be reassessed on a routine basis and updated as required.

The information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated. The following records were also inspected to ensure that the conditions of authorisation for your Aquaculture Production Business (APB) are being met:

Aquaculture animal and aquaculture animal product movement records were inspected and appeared to be adequately maintained.

Records in relation to aquaculture animals transported by the business were inspected and found to be adequately maintained.

Mortality records were inspected and found to be adequately maintained.

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

Reports detailing the results of animal health surveillance carried out by or on behalf of the business and/or Marine 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:

Date: 26/05/21

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/>





AFH-2021-0052 Sconser F1 –F4 (F1 top of picture, F4 bottom of picture)



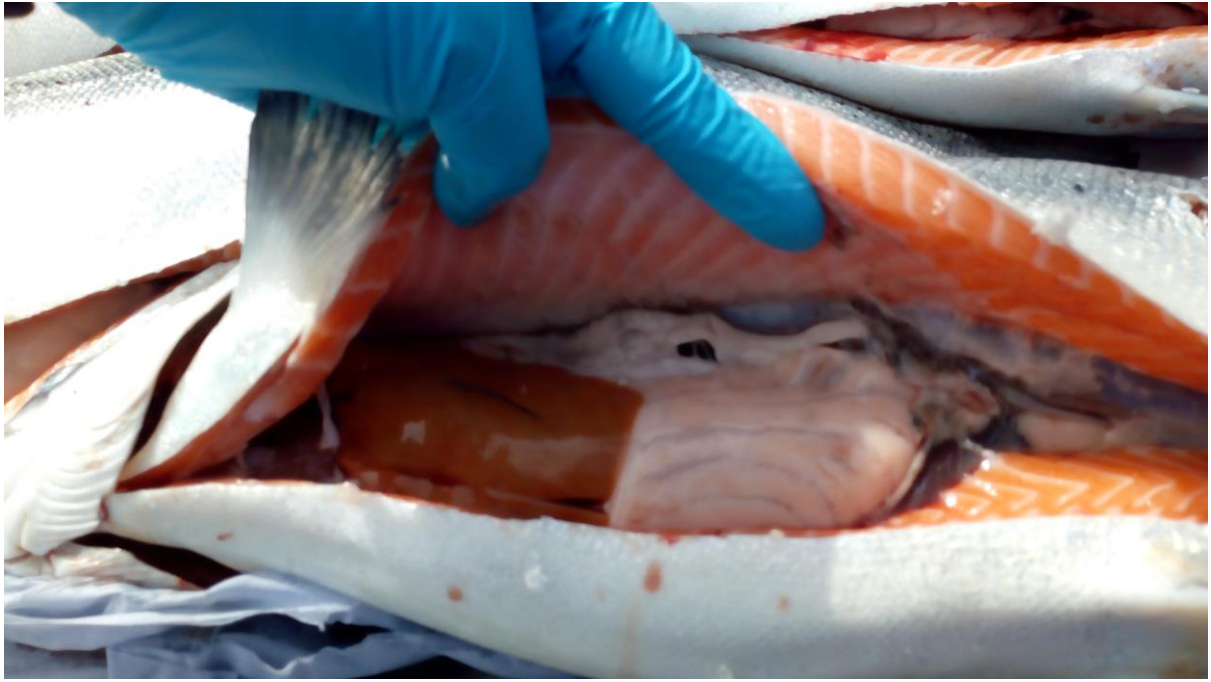
F1 Internal



F2 Internal



F3 Internal



F4 Internal

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**SITE No** FS0602  
**CASE No** 20210052

**DATE OF VISIT** 19/05/2021  
**SITE NAME** Sconser  
**INSPECTORS** [REDACTED]

### Section 1: Summary

During a routine inspection approximately 15 moribund fish were observed in each cage with a high percentage of these fish displaying varying degrees of eye damage. Recent mortalities were below 1% for the site per week.

Histopathology examination revealed pathology consistent with cardiomyopathy syndrome (CMS). This was confirmed by a positive qPCR result for piscine myocarditis virus (PMCV).

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

### Section 2: Case Detail

#### Observations

During a routine inspection 15 or more moribund fish were observed in each cage with a high percentage of these fish displaying varying degrees of eye damage. Cardiomyopathy syndrome had been confirmed on site, although reported mortalities had remained low. All four fish sampled were moribund, with fish three and four displaying pale gills.

Fish one and two displayed gross haemorrhaging in the liver, with the spleen of fish one enlarged. All four fish had no food present in the gut and yellow pseudo-faeces. Fish three displayed haemorrhaging on the gut.

#### Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
1 – 2	1	45	Atlantic salmon	2020 Q2 / 3.8 kg	Mowi Ireland, Altan Freshwater Unit
3 – 4	1	41	Atlantic salmon	2020 Q2 / 3.8 kg	Mowi Ireland, Altan Freshwater Unit

## Results

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

No significant bacteria were isolated.

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

Piscine myocarditis virus (PMCV)

Pool Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
P1	20.40	23.68	23.70	23.72	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 septicaemia virus (VHSV).

**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.

The following histopathological changes were observed:

Gill: Some interlamellar hyperplasia, few scattered lamellae displaying epithelial thickness and occasional lamellar necrosis (F1-F4). Some were also congested (potentially linked with the stunning method) (F3).

Skin & Muscle: Small foci of inflammatory cell infiltration noted on the red skeletal muscle (F3).

Heart: F3 exhibited foci of endocardial thickness, fibre degeneration and necrosis and inflammatory cell infiltration and F4 marked diffuse endocarditis and myocardial fibre necrosis at the spongy layer of the ventricle and atrium chambers.

Gut and pyloric caeca: Two foci of necrosis noted in the abdominal adipose tissue (F4). Folds of the hindgut slightly congested (F2). Some fibrous adhesions (likely associated with vaccine administration) (F1, F2).

Pancreas: Within normal range.

Liver: one small focus of hepatocellular necrosis (F4), mild multifocal hepatocellular vacuolation (macrovisicules) (F1, F2).

Kidney: focus of renal tubular dilation (F3).

Small foci of sparse haematopoietic tissue filled with few leucocyte cells (some neutrophils present) (F3).

Spleen: Slightly red pulp congestion (F2).

R09



Signed:

Date: 12/12/22

Fish Health Inspector

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