

Case No: Date of visit:

Time spent on site: Main Inspector:

Site No: Site Name:
Business No: Business Name:

Case Types: 1 2 3 4 5 6

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

Observations: Region: ST Water type: S 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:

Additional Case Information:

INTRA.GB.2019.033119 certificate issued.

18 tonnes to Cloughmore Shellfish.

No issues and no hitchhiker species observed.

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

Total No facilities	<input type="text" value="10"/>	Facilities stocked	<input type="text" value="3"/>	No facilities inspected	<input type="text" value="0"/>
Species	<input type="text" value="MED"/>				
Age group	<input type="text" value="2018"/>				
No Fish	<input type="text" value="27 tonnes"/>				
Mean Fish Wt	<input type="text" value="30 g"/>				
Next Fallow Date (Site)	<input type="text" value="December 2019"/>	Next Input Date (Site)	<input type="text" value="Natural spat"/>		

Recent (last 4 wks) disease problems? Any escapes (since last visit)?

If yes, detail:

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, add MRT case and enter on mortality events sheet.

1. Recent treatments (last 4 wks)?	
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?		N
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: 14/11/2019 - 21/11/2019

Loch Striven Mussel Farms Ltd
The Point Ardtaraig Estate
Loch Striven
Argyll
PA23 8RG

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

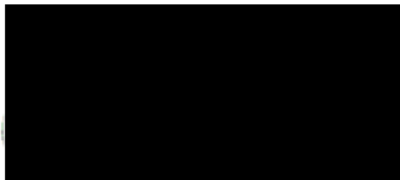
BUSINESS No	SB0530	DATE OF VISIT	20/11/2019
SITE No	SS0759	SITE NAME	Fearna
INSPECTOR		CASE No	20190562

Inspection for placing on the market in the EU

In accordance with the Trade in Animals and Related Products (Scotland) Regulations 2012 and European Community Council Directive 2006/88/EC, the above site was visited and a consignment of mussel spat for placing on the market in Ireland was inspected. A health certificate was issued which must travel with the consignment to the destination. The official authority in the importing country has been notified.

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

Signed:



Date: 12/12/2019

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

Case No:	<input type="text" value="2019-0563"/>	Date of visit:	<input type="text" value="21/11/2019"/>			
Time spent on site:	<input type="text" value="3.5 hours"/>	Main Inspector:	<input type="text"/>			
Site No:	<input type="text" value="SS0759"/>	Site Name:	<input type="text" value="Fearna"/>			
Business No:	<input type="text" value="SB0530"/>	Business Name:	<input type="text" value="Loch Striven Mussel Farms Ltd"/>			
Case Types:	1 <input type="text" value="MOV"/>	2 <input type="text"/>	3 <input type="text"/>	4 <input type="text"/>	5 <input type="text"/>	6 <input type="text"/>
Water Temp (°C):	<input type="text"/>	Thermometer No:	<input type="text"/>	FHI 045 completed	<input type="text"/>	
Observations:	Region:	ST	Water type:	S	CoGP MA	
Dead/weak/abnormally behaving fish present?	<input type="text" value="N"/>	If yes, see additional information/clinical score sheet.				
Clinical signs of disease observed?	<input type="text" value="N"/>	If yes, see additional information/clinical score sheet.				
Gross pathology observed?	<input type="text" value="N"/>	If yes, see additional information/clinical score sheet.				
Diagnostic samples taken?	<input type="text" value="N"/>					

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

Additional Case Information:

INTRA.GB.2019.0033120 certificate issued

14 tonnes to Cloughmore Shellfish

No issues and no hitchhiker species observed.

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

Total No facilities	<input type="text" value="10"/>	Facilities stocked	<input type="text" value="1"/>	No facilities inspected	<input type="text" value="0"/>
Species	<input type="text" value="MED"/>				
Age group	<input type="text" value="2018"/>				
No Fish	<input type="text" value="13 tonnes"/>				
Mean Fish Wt	<input type="text" value="30g"/>				
Next Fallow Date (Site)	<input type="text" value="Dec 2019"/>	Next Input Date (Site)	<input type="text" value="Natural spat"/>		

Recent (last 4 wks) disease problems? Any escapes (since last visit)?
 If yes, detail:

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, add MRT case and enter on mortality events sheet.

1. Recent treatments (last 4 wks)?	
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?	N
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: 14/11/2019

Loch Striven Mussel Farms Ltd
The Point Ardtaraig Estate
Loch Striven
Argyll
PA23 8RG

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

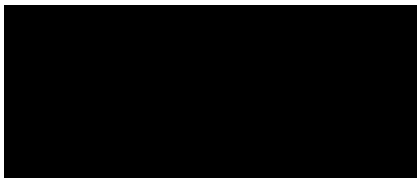
BUSINESS No	SB0530	DATE OF VISIT	21/11/2019
SITE No	SS0759	SITE NAME	Fearna
INSPECTOR		CASE No	20190563

Inspection for placing on the market in the EU

In accordance with the Trade in Animals and Related Products (Scotland) Regulations 2012 and European Community Council Directive 2006/88/EC, the above site was visited and a consignment of mussel spat for placing on the market in Ireland was inspected. A health certificate was issued which must travel with the consignment to the destination. The official authority in the importing country has been notified.

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: 12/12/2019

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

Case No: Date of visit:

Time spent on site: Main Inspector:

Site No: Site Name:
 Business No: Business Name:

Case Types: 1 2 3 4 5 6

Water Temp (°C): Thermometer No: 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:

Additional Case Information:

03/06/2019 09/06/2019 1.5 PD 11,000
10/06/2019 16/06/2019 2 PD 14,000
17/06/2019 23/06/2019 2.01 PD 14000
24/06/2019 30/06/2019 1.90 PD 13000
01/07/2019 07/07/2019 1.27 PD 8628
08/07/2019 14/07/2019 1.02 PD 6854
22/07/2019 28/07/2019 1.00 PD/Handling 6591
23/09/2019 29/09/2019 1.36 Explained Gill 7451
07/10/2019 13/10/2019 1.04 Explained Gill health challenge (PGD) and some handling for harvest 5586
14/10/2019 20/10/2019 3.64 Explained Gill health challenge (AGD) & treatment 18,777

Input 2018 Sept 7. Russel burn

Morts; week 43 - 1.04% gill health 4960 fish. Week 44 0.48% 2021 fish gill health

Thermolicer on site 14/10/19 for 1 week. Lice levels increase - juv and pre adults. Average adult females prior to treatment 1.85, all stages 21.13 post treatment average adult females, 1.15 All stage 5.6.

Hydrolicer currently on site treating.

East Tarbert Bay - 3 cages stocked currently harvesting well boat live to Ardyne for killing. 34000 left on site and these will be harvested out in the next month. Average weight 3.9kg. Week 44 morts 0.18% (842 fish) attributed to gill issues (1.58% post treatment wk 43)

Site thermometer used for biosecurity reasons and not EC visit.

Only 6 of the 11 cages stocked as fish were collected from the first 6 cages and time dependent samples were being taken.

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

Total No facilities	<input type="text" value="16"/>	Facilities stocked	<input type="text" value="11"/>	No facilities inspected	<input type="text" value="6"/>
Species	<input type="text" value="Sal lump"/>				
Age group	<input type="text" value="2018 S0 adult"/>				
No Fish	<input type="text" value="331,000 50,174"/>				
Mean Fish Wt	<input type="text" value="3.6 50g"/>				
Next Fallow Date (Site)	<input type="text" value="March 2020"/>	Next Input Date (Site)	<input type="text" value="Sept 2020"/>		

Recent (last 4 wks) disease problems? Any escapes (since last visit)?
 If yes, detail:

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, add MRT case and enter on mortality events sheet.

1. Recent treatments (last 4 wks)?	<input type="checkbox"/>	Y
If yes, detail:	<input type="text"/>	
	Hydrolicer and thermolicer	
If other, detail:	<input type="text"/>	
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)?	<input type="text"/>	TMS
If other, detail:	<input type="text"/>	
6. Are medicines stored appropriately?	<input type="checkbox"/>	Y

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"/>	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).	<input type="text"/>	PGD

Records checked between:

1/5/19 -6/11/19

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	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000							
Sex													
Water Type	SW	SW	SW	SW	SW	SW							
Stock Origin	Russel Burn	Russel Burn	Russel Burn	Russel Burn	Russel Burn	Russel Burn							
Facility No	9,11,14	9,11,14	9,11,16	9,11,14	9,11,14	9,11,14							

Case no: 2019-0666

Site No: FS0336

Method of killing: Percussive

Date of visit: 06/11/2019

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	S	S	S					
	Lethargic										
	Hanging vertical										
	Spiralling										
	Flashing										
	Loss of equilibrium										
Body	Dark										
	Distended abdomen										
	Anorexic					S					
	Scale Oedema										
Opercula	Shortened										
	Flared										
Haemorrhaging	Throat										
	Ventrum				S	S					
	Base of fins										
	Elsewhere										
Eyes	Exophthalmic										
	Enophthalmic (sunken)										
	Cataract										
	Haemorrhagic										
Gills	Pale	S	S	S	S	M					
	Zoned		S								
	Necrotic			M							
Lesions	Flank	S									
	Elsewhere					S					
Vent	Inflamed										
	Trailing faeces										
Lice Load	Estimate numbers		10+	30+		30+					
Internal Signs											
Ascites	Clear										
	Bloody					M					
Oedema	In tissues										
Heart	Pale/anaemic										
	Granulomas										
	Deformed										
Liver	Petechial haem										
	Gross haem										
	Tissue breakdown										
	Enlarged										
	Colour number(s)	1	1	1	1	1					
	Granulomas										
	Lesions										
Pyloric caeca	Petechial haem										
	Tubules mauve										
	Lack of fat										
Spleen	Enlarged										
	Granulomas										
Gut	No food present	S				S					
	Yellow pseudo-faeces		S	S	S						
	External haem										
	Internal haem										
Body wall	Haemorrhaging										
Swim bladder	Haemorrhaging										
	Fluid filled										
Kidney	Swollen					S					
	Grey					M					
	Granular					M					
	Liquefied										
General	Parasites present										
	Anaemia										

Additional comments:

F3 -enlarged heart

Site No: FS0336
Case No: 2019-0666
Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology



[REDACTED]
The Scottish Salmon Company
1 Smithy Lane
Lochgilphead
Argyll
PA31 8TA
[REDACTED]

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0169	DATE OF VISIT	06/11/2019
SITE No	FS0336	SITE NAME	Druimyeon Bay
INSPECTOR	[REDACTED]	CASE No	20190666

Section 1: Summary

Druimyeon Bay was visited following reports of increased mortalities attributed to pancreas disease and gill health issues. During the site inspection five moribund salmon were removed for diagnostic examination.

Histopathology examination revealed multifactorial gill pathology which included occasional epitheliocystis and the presence of amoebic cells suggestive of amoebic gill disease. The samples tested positive for *Neoparamoeba perurans* by QPCR. F5 also displayed bacterial granulomatous interstitial nephritis. Mild multifocal hepatic necrosis was also noted in F3 and F5. F1 and F5 had skin lesions which may impact on the osmotic balance of the fish.

Due to gill health issues observed on site samples were screened for salmon gill poxvirus and *Paranucleospora theridion* (syn, *Desmozoon lepeotherii*). Samples tested positive for both pathogens.

Vibrio sp. and *Moritella viscosa* were identified from the samples taken. The level of growth observed on plates taken from lesion material of fish 1 and 5 would likely be implicated in the health of those fish however the mixed nature of growth would not suggest it was the primary source of morbidity.

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

Druimyeon Bay was visited following reports from the business that mortality levels at the site had been high. This increase had been attributed to pancreas disease and gill health challenges including proliferative gill disease and amoebic gill disease. Handling and post treatment losses were also reported. For the two weeks prior to this visit mortality levels had been 1.04% (4960 fish) and 0.48% (2021 fish) respectively.

During the site inspection 5 moribund fish were removed from the pens for diagnostic examination. All fish five had pale gills. F2 had zoned gills and F3 had necrotic gills. F1 and F5 had external skin lesions. Internally F5 had bloody ascites and a swollen, grey and granular kidney.

Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
1-5	1	9,11,14	Atlantic Salmon	2018 S0 -3kg	Russel Burn

Results

Bacteriology: Kidney, gill and spleen material from five fish and lesion material from F1 and F5 were inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated;

- *Vibrio* spp. (isolates A and B) 2 separate isolates from the kidney of F5
- *Vibrio* sp. (isolate c) isolated from the lesions of F1 and F5
- *Moritella viscosa* Isolate from the lesion of F1

The level of growth of *Vibrio* sp. (isolate C), observed on plates taken from lesion material of fish 1 and 5 would likely be implicated in the health of those fish. The mixed nature of growth would not suggest it was the primary source of morbidity. *Moritella viscosa* identified in lesion material of F1 would likely be significant in that fish.

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

The samples tested negative for;

- bacterial kidney disease (BKD)
- infectious haematopoietic necrosis virus (IHNV)
- infectious pancreatic necrosis virus (IPNV)
- infectious salmon anaemia virus (ISAV)
- viral haemorrhagic septicemia virus (VHSV)

The samples tested **positive** for;

- salmonid alphavirus (SAV)

R09

- salmon gill poxvirus (SGPV)

SAV

Pool Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
P1	18.36	28.14	28.22	27.97	POSITIVE

SGPV

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	22.45	-	-	-	Negative
F2	22.20	-	-	-	Negative
F3	22.54	-	-	-	Negative
F4	22.47	-	-	-	Negative
F5	22.59	33.88	33.84	33.60	POSITIVE

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	22.45	31.64	31.92	31.51	POSITIVE
F2	22.20	32.52	32.63	32.45	POSITIVE
F3	22.54	31.98	31.95	32.10	POSITIVE
F4	22.47	-	-	-	Negative
F5	22.59	28.11	28.15	28.22	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	22.45	34.72	35.60	35.44	POSITIVE
F2	22.20	32.24	32.09	32.66	POSITIVE
F3	22.54	37.11	36.60	36.57	POSITIVE
F4	22.47	37.39	40.00	38.53	POSITIVE
F5	22.59	31.80	31.42	31.81	POSITIVE

R09

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 interlamellar hyperplasia and lamellar fusion (F2, F3, F5) and focal area of hyperplastic plaques with dilated vessels filled with neutrophil-like cells (F3). Scattered lamellae with epithelial thickening, multifocal adherence of secondary lamellae (synechiae) and lacunae filled with cell debris and occasional amoebic cell-like. Occasional basophilic epithelial inclusions (likely epitheliocystis) (F5) and few to several amoebic cells resembling *Neoparamoeba perurans* (F3 & F5). Scattered aneurysmal dilation/telangiectasia and lamellar thrombosis noted in all fish and free blood among gill filaments.

Skin & Muscle: partial absence of epidermal layer, dermal oedema and mild inflammatory cell infiltration which reaches the upper layer of the hypodermis. The lesion showed presence of bacteria that stained Gram-negative associated with dermal layer.

Heart: Mild pericarditis (F5) and small foci of inflammatory cell infiltration (F1, F4). Sections generally difficult to read; F2 heart tissue almost inexistent.

Gut and pyloric caeca: Within normal range.

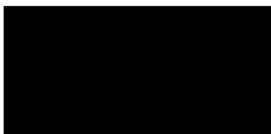
Pancreas: Within normal range.

Liver: Mild multifocal hepatic necrosis (F3, F5) and F4 displayed mild multifocal inflammatory cell infiltration, mild diffuse hepatic vacuolation (F1, F3).

Kidney: Approximately 80% of the normal renal parenchyma is filled with multiple granuloma-like structures which display infiltration of polymorphonuclear cells in the centre, few multinucleated giant cells associated and some deposits of amorphous eosinophilic material (F5). Few renal tubules exhibited dilated lumen filled with cell debris and Gram-negative bacteria, some of the bacteria were also associated with lining tubular epithelium. These bacteria were noted in some glomeruli (F5).

Spleen: Within normal range.

Signed:



Fish Health Inspector

Date: 07/01/2020

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

















Case No: Date of visit:

Time spent on site: Main Inspector:

Site No: Site Name:

Business No: Business Name:

Case Types: 1 2 3 4 5 6

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

Observations: Region: HI Water type: S CoGP MA M-6

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:

No lumpfish on site and not planned to be input this cycle.

Dead haul records not maintained in movement book but digital records are maintained and were available for inspection.

Some lethargic fish observed but these could not be caught for further inspection. Site has been fully enclosed with a box predator net due to seal predation.

Paperwork completed on the 4/11/19 with the site inspected on the 5/11/19.

Case No: **2019-0668** Site No: **FS0621**
 Date of Visit: **04/11/2019** Inspector(s): **[Redacted]**

Registration/Authorisation Details

1. Business/site details summary checked by site representative? **N/A**
 2. Changes made to details? **N/A**

Site Details

Total No facilities	26	Facilities stocked	8	No facilities inspected	24
Species	SAL	WRA			
Age group	2019 s1	wild			
No Fish	472,000	2,961			
Mean Fish Wt	1kg	~120g			
Next Fallow Date (Site)	Nov 2020		Next Input Date (Site)	April 2021	

Recent (last 4 wks) disease problems? **[Redacted]** Y Any escapes (since last visit)? **N**
 If yes, detail: **AGD (one site treatment with freshwater September and additional treatment planned for this week)**

Movement Records

1. Movement records available for inspection? **[Redacted]** Y
 2. Date of last inspection: **04/10/2016**
 3. Are records complete and correctly entered? **[Redacted]** Y
 4. Are movement records available for dead fish and waste? **[Redacted]** Y
 5. Are records complete and correctly entered? **[Redacted]** Y
 6. Are health certificates for introductions (outwith GB) available? **[Redacted]** N/A

Transport Records

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

Mortality Records

1. Mortality records available for inspection? **[Redacted]** Y
 2. How are mortalities disposed of? **Other (detail)**
 If other detail: **Composting (DK waste) Greys composting**
 3. Mortality records complete and correctly entered? **[Redacted]** Y
 4. Recent mortality (last 4 wks): **October morts salmon 5528 (1.48%), Wrasse 0.**
 5. Evidence of recent increased/atypical mortalities? **[Redacted]** N
 If yes, facility nos/no mortality per facility/no stock per facility/reason: **[Redacted]**

6. Any other peaks in mortality during period checked? **[Redacted]** N
 If yes, detail: **[Redacted]**
 7. Have increased (unexplained) mortalities been reported to vet or FHI? **[Redacted]** N/A
 If yes, detail action: **[Redacted]**
 8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet. **[Redacted]** N/A

1. Recent treatments (last 4 wks)?	<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).	AGD visual inspections as well as swabs.	

Records checked between: 4/10/2016 to 4/11/19

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	2	3	4								
Pool Group												
Species	SAL	SAL	SAL	SAL								
Average weight	1kg	1kg	1kg	1kg								
Sex	N/A	N/A	N/A	N/A								
Water Type	SW	SW	SW	SW								
Stock Details		Quartmore	Quartmore	Quartmore	Quartmore							
	Stock Origin											
Facility No	5	5	10	10								

Case Number:	2019-0668	Site No:	FS0621	Insp:		
Date of Visit	04/11/2019	No of movements/supp./dest.			Score	
Live fish movements		0	1-5	6-10	>10	
Movements on (from out with GB) of susceptible species	Frequency of movements on from equivalent MS	0	5	10	14	0
	Frequency of movements on from equivalent zone or compartment including third country	0	9	18	26	0
	Number of suppliers	0	5	10	14	0
Movements off	Frequency of movements off	0	3	6	10	3
	Number of destinations	0	3	6	10	3
Exposure via water	Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0				0
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		2
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6		
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		
Management practices		None	Secure	Unsecure		
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm processing	0				
	Processing own fish (re-cycling risk)	1				1
	Processing fish from MS of equivalent status	2				
	Processing fish from zone or compartment of equivalent status	4				
	Processing fish from Category III farm	8				
	Processing fish from Category V farm	10				
Disposal of fish and fish by-products	Site's own waste only processed.	0				
	Common processes with other farms	3				3
	Collection point for waste from other farms	5				
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0
	Feeding unpasteurised feed	5				
Biosecurity	Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating from single shorebase	0	1	2		1
	Sites sharing staff and equipment	0	1	2		
Disinfection of equipment between sites, use of footbaths etc	Yes	0				0
	No	1				
CoGP/Regulator						
Practices in accordance with regulator or industry code of practice	Yes	0				0
	No	3				
Platform access to cages	Yes	0				0
	No	2				
Total Rank					13	LOW

Case No: **2019-0668**

Site No: **FS0621**

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)

Predator box net AC MML Top 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: 2019-0668

Site No: FS0621

Date of Visit: 04/11/2019

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?

Loch Duart Ltd
Badcall Salmon House
Scourie, Lairg
Sutherland
IV27 4TH

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0398	DATE OF VISIT	04/11/2019
SITE No	FS0621	SITE NAME	Loch A Chairn Bhain
INSPECTOR		CASE No	20190668

Case completion report

Recommendations in relation to the above case were made for implementation by 10/1/2020. Following submission of the required documentation, evidence has now been provided to Marine Scotland to demonstrate that the recommendations have been implemented.

This case will now be closed. This site may be subject to further audit and recommendations in the future.

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: 06/01/2020

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

Loch Duart Ltd
Badcall Salmon House
Scourie, Lairg
Sutherland
IV27 4TH

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0398	DATE OF VISIT	04/11/2019
SITE No	FS0621	SITE NAME	Loch A Chairn Bhain
INSPECTOR		CASE No	20190668

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, and to meet the requirements of European Community Council Directive 2006/88/EC.

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 low. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every third 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.

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.

R25

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.

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 containment and escapes.

Two minor issues were noted in the Farm management Statement, these were discussed during the inspection, no further action is required.

Recommendations were issued in relation to sea lice records:

- The site did not have a harvesting strategy where fewer populations or part populations are held without treatment for sea lice;
- There was no site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation.

Please ensure that these points have been addressed by 18th December 2019. Records or documentation demonstrating that these points have been addressed should be sent to the Fish Health Inspectorate (contact details below). The site may be subject to further inspection or enforcement action should the appropriate action regarding the above points not be taken within the time period stipulated.

Please contact myself or the duty inspector should you require any assistance or clarification in implementing any requirement or recommendation detailed in this report.

Signed:



Fish Health Inspector

Date: 18/11/2019

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

Case No: Date of visit:

Time spent on site: Main Inspector:

Site No: Site Name:
 Business No: Business Name:

Case Types: 1 2 3 4 5 6

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

Observations: Region: HI Water type: S CoGP MA M-10

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:

Mortalities mainly background since input, including seals and concussion although no significant numbers recorded.

Fish in good condition, low sea lice numbers since input, slight increase in Caligus during summer slice treatment was administered and successful.

Fish will be split down to the Fada site in the near future.

Wild ballan wrasse had been transferred to Kishorn site, this was subject to risk assessment.

Case No: **2019-0670** Site No: **FS0549**
 Date of Visit: **06/11/2019** Inspector(s): **[Redacted]**

Registration/Authorisation Details

- 1. Business/site details summary checked by site representative? **Y**
- 2. Changes made to details? **Y**

Site Details

Total No facilities	12	Facilities stocked	12	No facilities inspected	12
Species	SAL	WRA			
Age group	2019 S1	Wild			
No Fish	460,000	23,000			
Mean Fish Wt	2kg	Mix			
Next Fallow Date (Site)	Sep 2020		Next Input Date (Site)	April 2021	

Recent (last 4 wks) disease problems? **N** Any escapes (since last visit)? **N**
 If yes, detail: **[Redacted]**

Movement Records

- 1. Movement records available for inspection? **Y**
- 2. Date of last inspection: **21/11/2017**
- 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? **Other (detail)**
- If other detail: **Incinerated at Fada site**
- 3. Mortality records complete and correctly entered? **Y**
- 4. Recent mortality (last 4 wks): **wk 45 305 (0.13%), wk 44 62 (0.03%), Wk 43 178 (0.08%), Wk 42 150 (0.06%)**
- 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, add MRT case and enter on mortality events sheet. **N/A**

1. Recent treatments (last 4 wks)?	<input type="checkbox"/>	N
If yes, detail:	<input type="text"/>	
If other, detail:	<input type="text"/>	
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)?	<input type="text"/>	
If other, detail:	<input type="text"/>	
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:	<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"/>	y
2. If yes, are results available for inspection?	<input type="checkbox"/>	y
3. Any significant results?	<input type="checkbox"/>	n
If yes, detail (if not detailed under recent disease problems).	<input type="text"/>	

<input type="text"/>

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	1	2	3	4	5								
Fish nos	1	2	3	4	5								
Pool Group													
Species	SAL	SAL	SAL	SAL	SAL								
Average weight	2kg	2kg	2kg	2kg	2kg								
Sex	N/A	N/A	N/A	N/A	N/A								
Water Type	SW	SW	SW	SW	SW								
Stock Origin	Loch Damph	Loch Damph	Loch Damph	Loch Damph	Loch Damph								
Facility No	1	1	2	2	6								

Case Number:	2019-0670	Site No:	FS0549	Insp:		
Date of Visit	06/11/2019	No of movements/supp./dest.			Score	
Live fish movements		0	1-5	6-10	>10	
Movements on (from out with GB) of susceptible species	Frequency of movements on from equivalent MS	0	5	10	14	0
	Frequency of movements on from equivalent zone or compartment including third country	0	9	18	26	0
	Number of suppliers	0	5	10	14	0
Movements off	Frequency of movements off	0	3	6	10	10
	Number of destinations	0	3	6	10	3
Exposure via water	Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0				
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		2
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6		
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		
Management practices		None	Secure	Unsecure		
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm processing	0				0
	Processing own fish (re-cycling risk)	1				
	Processing fish from MS of equivalent status	2				
	Processing fish from zone or compartment of equivalent status	4				
	Processing fish from Category III farm	8				
	Processing fish from Category V farm	10				
Disposal of fish and fish by-products	Site's own waste only processed.	0				
	Common processes with other farms	3				3
	Collection point for waste from other farms	5				
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0
	Feeding unpasteurised feed	5				
Biosecurity	Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating from single shorebase	0	1	2		1
	Sites sharing staff and equipment	0	1	2		
Disinfection of equipment between sites, use of footbaths etc	Yes	0				0
	No	1				
CoGP/Regulator						
Practices in accordance with regulator or industry code of practice	Yes	0				0
	No	3				
Platform access to cages	Yes	0				0
	No	2				
Total Rank					19	MEDIUM

Case No: **2019-0670**

Site No: **FS0549**

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)

ADD Seal pro nets on some pens MML Top nets Seal blinds on sor

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: 2019-0670

Site No: FS0549

Date of Visit: 06/11/2019

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?



[REDACTED]
Scottish Sea Farms Ltd
Laurel House
Laurelhill Business Park
Polmaise Road Stirling
FK7 9JQ
[REDACTED]

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0125	DATE OF VISIT	06/11/2019
SITE No	FS0549	SITE NAME	Tanera
INSPECTOR	[REDACTED]	CASE No	20190670

Case completion report

Recommendations in relation to the above case were made for implementation by 10/1/2020. Following submission of the required documentation, evidence has now been provided to Marine Scotland to demonstrate that the recommendations have been implemented.

This case will now be closed. This site may be subject to further audit and recommendations in the future.

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: 15/01/2020

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

██████████
Scottish Sea Farms Ltd
Laurel House
Laurelhill Business Park
Polmaise Road Stirling
FK7 9JQ
████████████████████

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0125	DATE OF VISIT	06/11/2019
SITE No	FS0549	SITE NAME	Tanera
INSPECTOR	██████████	CASE No	20190670

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, and to meet the requirements of European Community Council Directive 2006/88/EC.

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.

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

R25

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.

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 fish farm management agreements and statements, containment and escapes.

Recommendations were issued in relation to sea lice records:

- The site did not have a harvesting strategy where fewer populations or part populations are held without treatment for sea lice;
- There was no site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation.

Please ensure that these points have been addressed by 19th December 2019. Records or documentation demonstrating that these points have been addressed should be sent to the Fish Health Inspectorate (contact details below). The site may be subject to further inspection or enforcement action should the appropriate action regarding the above points not be taken within the time period stipulated.

Signed:



Fish Health Inspector

Date: 19/11/2019

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

Case No:	2019-0672	Date of visit:	14/11/2019
Time spent on site:	6hrs	Main Inspector:	
Site No:	FS0212	Site Name:	Invasion Bay
Business No:	FB0119	Business Name:	Mowi Scotland Ltd
Case Types:	1 ECI	2 CNI	3 SLI
	4 VMD	5 DIA	6
Water Temp (°C):	11.4	Thermometer No:	T152
		FHI 045 completed	N
Observations:	Region:	HI	Water type: S
			CoGP MA M-34
Dead/weak/abnormally behaving fish present?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Clinical signs of disease observed?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Gross pathology observed?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.	
Diagnostic samples taken?	<input type="checkbox"/>		

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

Additional Case Information:

Two inputs onto site; Q4's came on from Glenfinnan (FS0742) and Q1's came on from Loch Garry (FS1104).

41,391 wildcaught wrasse came onto site between July and October 2019. Total recorded mortality of wrasse on site since input is 4,001.

Company vets are taking routine bloods and gill swabs every 2 weeks. AGD and PGD has been confirmed across site, and *P.skyensis* has been confirmed in the Q4 population, but the results for the Q1 population have come back negative.

Vets have recently taken samples to screen for PD, however, at the time of inspection, site still awaiting results of this. Site manager informed the inspector that this had been taken as a precautionary measure as the fish have been vaccinated for PD.

Fish were on starve due to a scheduled hydrolicer treatment (12th-16th November). Fish were sitting deep in the water and were observed shoaling.

Several lethargic fish were observed across the site, however they were sitting deep in the water and when attempted to catch with a hand net, demonstrated a strong escape response so were not sampled.

Few moribunds observed across site. These were all caught and diagnostic samples were taken from each.

Fish sampled for VMD appeared healthy and had a good feeding response.

Inspection, paperwork and sampling completed by [REDACTED] under [REDACTED] supervision.

Case No: **2019-0672** Site No: **FS0212**
 Date of Visit: **14/11/2019** Inspector(s): **[Redacted]**

Registration/Authorisation Details

- 1. Business/site details summary checked by site representative? **Y**
- 2. Changes made to details? **Y**

Site Details

Total No facilities	18	Facilities stocked	11	No facilities inspected	18
Species	SAL	SAL	WRA		
Age group	2019 Q1	2018 Q4	Wildcaught		
No Fish	375,000	34,000	~30,000		
Mean Fish Wt	2.5kgs	4.1kgs	Mixed		
Next Fallow Date (Site)	August 2020		Next Input Date (Site)	October 2020	

Recent (last 4 wks) disease problems? **Y** Any escapes (since last visit)? **N**
 If yes, detail: **Pasturella, AGD and PGD**

Movement Records

- 1. Movement records available for inspection? **Y**
- 2. Date of last inspection: **24/04/2018**
- 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**

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: **Waste is ensiled on site, prior to collection by Billy Bowie and taken to Dundas.**
- 3. Mortality records complete and correctly entered? **Y**
- 4. Recent mortality (last 4 wks): **Wk46: 456 (0.11%), Wk45: 1,839 (0.42%), Wk44: 1,775 (0.35%), Wk43: 2,494 (0.45%)**
- 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? **Y**
- If yes, detail: **Post treatment losses - hydrogen peroxide for gills.**
- 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, add MRT case and enter on mortality events sheet. **Y**

1. Recent treatments (last 4 wks)?	<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., Salmosan	
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).	AGD, PGD and P.skyensis.	

Records checked between: 24/04/18-14/11/19

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	6	7	8			
Pool Group	P1	P1	P1	P1	P1							
Species	SAL	SAL	SAL	SAL	SAL		SAL	SAL	SAL			
Average weight	2.5kgs	2.5kgs	4.1kgs	4.1kgs	2.5kgs		2.5kgs	2.5kgs	2.5kgs			
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	SW			
Stock Details		Loch Garry	Loch Garry	Glenfinnan	Glenfinnan	Glenfinnan		Glenfinnan	Glenfinnan	Glenfinnan		
	Stock Origin											
Facility No	1	2	9	9	15		11	12	13			

Case no: 2019-0672

Site No: FS0212

Method of killing: Percussive

Date of visit: 14/11/2019

Inspector(s):

Sheet Relevant: Y

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

Fish Number		F1	F2	F3	F4	F5							
Time sampled after death (if > 45 minutes)													
External Signs													
Behaviour	Moribund	S	S	M	M								
	Lethargic	S	S	M	M								
	Hanging vertical												
	Spiralling												
	Flashing												
	Loss of equilibrium												
Body	Dark		M	M	M								
	Distended abdomen												
	Anorexic												
	Scale Oedema												
Opercula	Shortened												
	Flared												
Haemorrhaging	Throat			M	W								
	Ventrum			S	M								
	Base of fins			M									
	Elsewhere												
Eyes	Exophthalmic		S										
	Enophthalmic (sunken)												
	Cataract												
	Haemorrhagic			W	W								
Gills	Pale	S	S	M									
	Zoned				W								
	Necrotic												
Lesions	Flank												
	Elsewhere												
Vent	Inflamed												
	Trailing faeces												
Lice Load	Estimate numbers	16	9	11	30								
Internal Signs													
Ascites	Clear												
	Bloody			M	W								
Oedema	In tissues		M										
Heart	Pale/anaemic			M	M								
	Granulomas												
	Deformed												
Liver	Petechial haem	M	W		W								
	Gross haem												
	Tissue breakdown												
	Enlarged												
	Colour number(s)	7	2	7	6								
	Granulomas												
	Lesions												
Pyloric caeca	Petechial haem			W									
	Tubules mauve												
	Lack of fat												
Spleen	Enlarged			S	S								
	Granulomas												
Gut	No food present	S		S	S								
	Yellow pseudo-faeces		S										
	External haem												
	Internal haem												
Body wall	Haemorrhaging												
Swim bladder	Haemorrhaging			W	W								
	Fluid filled			W									
Kidney	Swollen												
	Grey												
	Granular												
	Liquefied												
General	Parasites present												
	Anaemia												

Additional comments:

F2's eye had popped. The hearts of F3 and F4 were extremely firm.

Case Number:	2019-0672	Site No:	FS0212	Insp:		
Date of Visit	14/11/2019	No of movements/supp./dest.			Score	
Live fish movements		0	1-5	6-10	>10	
Movements on (from out with GB) of susceptible species	Frequency of movements on from equivalent MS	0	5	10	14	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
Exposure via water	Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0				
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		1
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6		
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		
Management practices		None	Secure	Unsecure		
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1	2		1
On farm processing within the rules of the directive	No on farm processing	0				
	Processing own fish (re-cycling risk)	1				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				
Biosecurity	Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating from single shorebase	0	1	2		0
	Sites sharing staff and equipment	0	1	2		1
Disinfection of equipment between sites, use of footbaths etc	Yes	0				0
	No	1				
CoGP/Regulator						
Practices in accordance with regulator or industry code of practice	Yes	0				0
	No	3				
Platform access to cages	Yes	0				0
	No	2				
Total Rank					27	HIGH

Case No: **2019-0672**

Site No: **FS0212**

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)

Tension nets, top nets, ADDs, MML

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: 2019-0672

Site No: FS0212

Date of Visit: 14/11/2019

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?

Site No: FS0212
Case No: 2019-0672
Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology



Case No: 2019-0672

Date of visit: 14/11/2019

Site No: FS0212

Inspector: [Redacted]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
MG_AGDQ	5/5	19/11/2019	[Redacted]	20/11/2019	[Redacted]	15/01/2019	[Redacted]	[Redacted]
MG_IHNQ	0/1	19/11/2019	[Redacted]	20/11/2019	[Redacted]	15/01/2019	[Redacted]	[Redacted]
MG_IPN	0/1	19/11/2019	[Redacted]	20/11/2019	[Redacted]	15/01/2019	[Redacted]	[Redacted]
MG_ISA	0/1	19/11/2019	[Redacted]	20/11/2019	[Redacted]	15/01/2019	[Redacted]	[Redacted]
MG_PARA_THER_Q	5/5	19/11/2019	[Redacted]	20/11/2019	[Redacted]	15/01/2019	[Redacted]	[Redacted]
MG_SAL_POX	4/5	19/11/2019	[Redacted]	20/11/2019	[Redacted]	15/01/2019	[Redacted]	[Redacted]
MG_SAV	1/1	19/11/2019	[Redacted]	20/11/2019	[Redacted]	15/01/2019	[Redacted]	[Redacted]
MG_VHS	0/1	19/11/2019	[Redacted]	20/11/2019	[Redacted]	15/01/2019	[Redacted]	[Redacted]
BACT_PASS	2/5	04/12/2019	[Redacted]	06/01/2020	[Redacted]	15/01/2019	[Redacted]	[Redacted]
HIST_AMGD	3/5	06/01/2020	[Redacted]	06/01/2020	[Redacted]	15/01/2019	[Redacted]	[Redacted]
HIST_GPAT	4/5	06/01/2020	[Redacted]	06/01/2020	[Redacted]	15/01/2019	[Redacted]	[Redacted]
HIST_PPAT	1/5	06/01/2020	[Redacted]	06/01/2020	[Redacted]	15/01/2019	[Redacted]	[Redacted]
HIST_PASS	2/5	06/01/2020	[Redacted]	06/01/2020	[Redacted]	15/01/2019	[Redacted]	[Redacted]
HIST_SPAT	3/5	06/01/2020	[Redacted]	06/01/2020	[Redacted]	15/01/2019	[Redacted]	[Redacted]
HIST_HPAT	5/5	06/01/2020	[Redacted]	06/01/2020	[Redacted]	15/01/2019	[Redacted]	[Redacted]
HIST_KPAT	2/5	06/01/2020	[Redacted]	06/01/2020	[Redacted]	15/01/2019	[Redacted]	[Redacted]
HIST_SALH	1/5	06/01/2020	[Redacted]	06/01/2020	[Redacted]	15/01/2019	[Redacted]	[Redacted]

Report Summary			
Case Type	Date	Insp	2 nd Insp
ECI, CNI, SLI, VMD	19/11/2019	[Redacted]	[Redacted]
ECI, CNI, SLI, VMD reis	13/01/2019	[Redacted]	[Redacted]
DIA	13/01/2019	[Redacted]	[Redacted]

[REDACTED]
Mowi Scotland Ltd
Stob Ban House
Glen Nevis Business Park
Fort William
PH33 6RX
[REDACTED]

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0119	DATE OF VISIT	14/11/2019
SITE No	FS0212	SITE NAME	Invasion Bay
INSPECTOR	[REDACTED]	CASE No	20190672

Section 1: Summary

During a routine inspection lethargic and moribund fish with darkened bodies and haemorrhaging were observed. Five Atlantic salmon were removed for diagnostic sampling.

Histopathology examination revealed mild nephritis and splenitis, likely associated with the presence of bacteria (likely *Pasteurella skyensis*). *Pasteurella skyensis* was isolated from the kidney material of two fish by cell culture and confirmed by PCR. One fish displayed an absence of pancreatic acinar cells likely associated with the presence of salmonid alphavirus (SAV). SAV was confirmed by PCR. Mild multifactorial gill pathology which included the presence of amoebic cells, suggestive of amoebic gill disease (AGD). Samples tested positive for *Neoparamoeba perurans* (the causative agent of AGD), salmonid gill poxvirus (SGPV) and *Paranucleospora theridion* (*syn.*, *Desmozoon lepeophtherii*) by QPCR.

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 visited for a routine inspection. Company vets had recently confirmed AGD and proliferative gill disease (PGD) across the site. *Pastuerella skyensis* had also been confirmed in the Q4 population, but results for *P.skyensis* were negative for the Q1's on site. The company vet had also taken samples to screen for the presence of Salmonid alphavirus (SAV), the causative agent of Pancreas Disease (PD). At the time of inspection, the results were still outstanding. Mortality across the site had been low in the weeks leading up to the inspection. Four moribund and lethargic fish and one clinically healthy fish were removed for diagnostic sampling.

Externally, F2-4 appeared to have darkened bodies. F3 and F4 displayed haemorrhaging along the throat and ventrum. F3 displayed haemorrhaging at the base of fins and in the eyes. F2 displayed exophthalmia and the gills of F1-3 were pale, with F4 displaying zoning of the gills.

Internally, F3 and F4 had bloody ascites and F2 had oedema in the abdominal wall. The hearts of F3 and F4 were pale/anaemic and extremely firm. There was petechial haemorrhaging in the livers of F1, 2 and 4 and the livers of F1, F3 and F4 were all dark in colour. Petechial haemorrhaging was evident in the pyloric caeca of F3 and the spleens of F3 and F4 were enlarged. Haemorrhaging was noted in the swim bladder of F3 and F4, with fluid also present in the swim bladder of F3.

Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
F1	P1	1	Atlantic salmon	2019 Q1/ 2.5kgs	Loch Garry (FS1104)
F2	P1	2	Atlantic salmon	2019 Q1/ 2.5kgs	Loch Garry (FS1104)
F3-4	P1	9	Atlantic salmon	2018 Q4/ 4.1kgs	Glenfinnan (FS0742)
F5	P1	15	Atlantic salmon	2018 Q4/ 4.1kgs	Glenfinnan (FS0742)

Results

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

The following bacterium was isolated and confirmed by PCR:

- *Pastuerella skyensis*: F3-4 (Kidney)

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	17.39	25.92	25.93	25.90	POSITIVE

Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.50	33.93	33.17	33.22	POSITIVE
F2	21.08	33.10	32.92	33.07	POSITIVE
F3	22.09	35.16	35.34	35.21	POSITIVE
F4	21.74	35.38	35.92	35.91	POSITIVE
F5	-	-	-	-	Negative

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: Gill 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	21.50	26.01	25.96	26.11	POSITIVE
F2	21.08	28.47	28.49	28.38	POSITIVE
F3	22.09	30.53	30.48	30.63	POSITIVE
F4	21.74	27.55	27.62	27.56	POSITIVE
F5	22.24	31.19	31.15	31.16	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.50	28.01	28.03	28.06	POSITIVE
F2	21.08	30.38	30.38	30.38	POSITIVE
F3	22.09	36.83	36.67	36.50	POSITIVE
F4	21.74	29.86	29.92	29.81	POSITIVE
F5	22.24	33.96	34.03	33.84	POSITIVE

Histology: Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from F1-5. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

Gill: Mild multifocal interlamellar hyperplasia with occasional spaces (lacunae) (F1-F3) and several amoebic cells resembling *Neoparamoeba perurans* (F1-F3). Some individual lamellae with epithelial thickness and vascular disturbance (F3, F4) and some apoptotic cells (F3). Free blood among gills filaments and generalized epithelial lifting likely associated with post-mortem artefact.

Skin & Muscle: Within normal range. F4: Not in section and F3: Interpretation hindering by artefacts, F5 only white muscle.

Heart: Mild to moderate pericarditis (F1, F2, F4, F5). Some infiltration of inflammatory cells and fibre degeneration (F1), inflammatory cell infiltration also seen at the junction of spongy and ventricle layer (F3). Presence of few small thrombi (F2).

Gut and pyloric caeca: Minimal inflammatory cell infiltration in the abdominal adipose tissue (F3, F4). F2: interpretation hindering by artefacts.

Pancreas: Absence of pancreatic acinar cells (F3). F2: interpretation hindering by artefacts.

Liver: Mild multifocal hepatic necrosis (F2 & F5), minimal cuffing (F4, F5), moderate coalescing hepatic vacuolation (F1).

Kidney: Mild multifocal necrosis of interstitial tissue (F3), some glomeruli displayed Gram-negative bacteria (F3) and to a lesser extent also seen in F4.

Spleen: Mild multifocal necrosis of white pulp (F3) and slightly congested (F1, F4).



Signed:

Date: 15/01/2020

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

██████████
Mowi Scotland Ltd
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██████████

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0119	DATE OF VISIT	14/11/2019
SITE No	FS0212	SITE NAME	Invasion Bay
INSPECTOR	██████████	CASE No	20190672

This report has been re-issued as the surveillance frequency for the above listed site has been amended following imports of wrasse from Northern Ireland. The previously issued report dated '19/11/19' should be destroyed.

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, and to meet the requirements of European Community Council Directive 2006/88/EC.

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 every 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 found to be inadequately 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.

R25

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.

The following points were raised with the site representative during the inspection:

- Health certificates for the following movements of wildcaught Wrasse from Northern Ireland were not available for inspection:
 - 15/10/2017
 - 09/11/2017
 - 15/09/2019

As there is currently a voluntary agreement that health certificates are issued for cleaner fish landed in Northern Ireland and transported to sites in Scotland, I ask that in future, you ensure that these are obtained from the relevant authority and are available for inspection at the destination site. I also ask that these are retained for a period of 3 years.

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.

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: 13/01/2020

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

Case No: Date of visit:

Time spent on site: Main Inspector:

Site No: Site Name:
 Business No: Business Name:

Case Types: 1 2 3 4 5 6

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

Observations: Region: ST Water type: S CoGP MA M-39

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:

Site harvested and culled - fallow 29/10/19. Due to "water bourn insult" . No plankton samples available. Inverluss Mussels reported a spike in Cretosoris. Fish were feeding well but within 1 week were not responding to feed. Recorded rapid dips in O2 levels. Added aeration and oxygen. Estimated numbers lost; stocked with 382344 - 199124 culled, 177588 morts and 24000 harvested, Fish were 2018 Q4 and 2019 Q1.

Morts reported; 16/09/2019-22/09/2019 average wt ;1.5 kg 4.7%/site/wk Cause; Post physical delousing, CGD
30/09/2019-06/10/2019 average wt; 1.5 kg 9.1%/site/wk Cause; Environmental - planktonic gill insult, CGD
07/10/2019-13/10/2019 average wt; 1.5 kg 17.8%/site/wk Cause; Environmental - planktonic gill insult. CGD
14/10/2019 -20/10/2019 average wt;1.5 kg 22.1%/site/wk Cause; Environmental - plankton gill insult, CGD
21/10/2019-27/10/2019 average wt; 1.2 kg 7.8%/site/wk Cause; Environmental - plankton gill insult, CGD

Case Number:	2019-0701	Site No:	FS0253	Insp:		
Date of Visit	15/11/2019	No of movements/supp./dest.			Score	
Live fish movements		0	1-5	6-10	>10	
Movements on (from out with GB) of susceptible species	Frequency of movements on from equivalent MS	0	5	10	14	0
	Frequency of movements on from equivalent zone or compartment including third country	0	9	18	26	
	Number of suppliers	0	5	10	14	
Movements off	Frequency of movements off	0	3	6	10	10
	Number of destinations	0	3	6	10	3
Exposure via water	Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0				
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		1
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6		
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		
Management practices		None	Secure	Unsecure		
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1	2		1
On farm processing within the rules of the directive	No on farm processing	0				
	Processing own fish (re-cycling risk)	1				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				
Biosecurity	Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating from single shorebase	0	1	2		0
	Sites sharing staff and equipment	0	1	2		
Disinfection of equipment between sites, use of footbaths etc	Yes	0				0
	No	1				
CoGP/Regulator						
Practices in accordance with regulator or industry code of practice	Yes	0				0
	No	3				
Platform access to cages	Yes	0				
	No	2				
Total Rank					16	MEDIUM

Case No: Site No:

Date of case: Inspector(s):

Business/site contacts correct? (if no update site summary sheet) Y

Site Details

Total No facilities No facilities stocked

Species						
Age group						
No Fish						
Mean Fish Wt						
Next Fallow Date (Site)	fallow			Next Input Date (Site)	June 2020	

Date of last inspection: (ECI or PSI)

Any recent increased or atypical mortalities? (last 4 weeks).

If yes, detail:

e.g. site average, max per cage

Any increased mortalities? (since last inspection.)

If yes, detail:

How are mortalities disposed of?

If other detail:

Any treatments? (since last inspection)

If yes, detail:

Other:

Any disease on site? (since last inspection)

If yes, detail:

Has any animal health surveillance or diagnostic investigations been carried out by, or on behalf of, the business?

Any significant results?

If yes, detail

Is there a history of sea lice issues at the site in previous 4 years

If yes, detail:

Has site been able to keep lice levels below the recommended lice levels?

If no, detail:

Treatment discharge for sea lice in place?

If yes, detail:

Where sea lice treatments have been administered have they had an effect?

If no, detail:

Is a management area agreement in place?

Does your CoGP Farm management area fallow in synchrony?

Any reported escapes? (check prior to phone call)

Any escapes? (since last inspection)

If yes, detail:

(include date)

Any significant changes to your biosecurity procedures since previous visit?	Y
If yes, detail: Sister site Spelve A has been inactivated.	

██████████
Scottish Sea Farms Ltd
Laurel House
Laurelhill Business Park
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████████████████████

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0125	DATE OF CASE	15/11/2019
SITE No	FS0253	SITE NAME	Loch Spelve (B)
INSPECTOR	██████████	CASE No	20190701

Routine surveillance frequency assessment under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was contacted in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, and to meet the requirements of European Community Council Directive 2006/88/EC.

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

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.

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

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: 16/01/2020

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

Case No: Date of visit:

Time spent on site: Main Inspector:

Site No: Site Name:

Business No: Business Name:

Case Types: 1 2 3 4 5 6

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

Observations: Region: ST Water type: S 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:

Additional Case Information:

150 native oysters collected for contact testing for *Bonamia ostreae*. Site supplied with oysters from Lochnell Oysters where the presence of *Bonamia ostreae* has been confirmed.

Additional samples were collected from the site on the 15/11/2019 after several oysters died in transit to the lab from the original sample collection. Extra oysters were collected to make up the additional samples.

No records checked as non available when collecting samples.

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

Total No facilities	<input type="text" value="1"/>	Facilities stocked	<input type="text" value="1"/>	No facilities inspected	<input type="text" value="1"/>
Species	<input type="text" value="OED"/>				
Age group	<input type="text" value="mixed"/>				
No Fish	<input type="text" value="170"/>				
Mean Fish Wt	<input type="text" value="mixed"/>				
Next Fallow Date (Site)	<input type="text" value="not known"/>	Next Input Date (Site)	<input type="text" value="not known"/>		

Recent (last 4 wks) disease problems? Any escapes (since last visit)?
 If yes, detail:

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, add MRT case and enter on mortality events sheet.

1. Recent treatments (last 4 wks)?	
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?	N/A
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:

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	F6	F7	F8	F9	F10	F11	F12
Fish nos	1	2	3	4	5	6	7	8	9	10	11	12
Pool Group												
Species	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED
Average weight												
Sex	N/A	N/A	N/A	N/A	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	SW	SW	SW	SW	SW
Stock Origin	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters
Facility No												

11/2019 Additional Sample Information:
 139 oysters collected on 13/11/19 and sampled on 14/11/19 (1-67, 78-83, 85-150)
 More oysters collected on 15/11/19 and sampled on 15/11/19 (68-77 and 84)

150 Total Tests assigned 2

F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26	F27	F28
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters	Lochnell Oysters

Loch Craignish Native Oyster Restoration
Garden Cottage
Craignish
Argyll
PA31 8QS

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No SB0551 **DATE OF VISIT** 13/11/2019
SITE No SS0925 **SITE NAME** Loch Craignish Oyster Restoration
INSPECTOR [REDACTED] **CASE No** 20190702

Statutory test

The above site was inspected and samples collected to be screened for the presence of *Bonamia ostreae*. The site was placed under suspicion for the presence of *Bonamia ostreae* as it had received stock from a site that tested positive for the disease.

All epidemiological units were inspected. No clinical signs associated with *Bonamia ostreae* were observed.

Samples

A total of 150 oysters were tested for the presence of *Bonamia ostreae*. Samples were collected according to the table below:

Shell Fish number	Stage	Origin
1-150	Mixed	Lochnell Oysters

Results

Molecular genetics: Tissue samples were tested for segments of DNA indicative of the presence of *Bonamia* sp. using real-time PCR (QPCR).

All molecular genetic samples tested negative for *Bonamia* sp.

Histology

Tissues samples of gill, mantle and digestive gland were taken from F1-150. The tissue samples were fixed in Davidson's fixative.

R16

F1-F20 – No evidence of Bonamiosis

F5 & F10 – displayed mild focal haemocytic infiltration in the vesicular connective tissue surrounding the digestive gland.

F21-F43 – No evidence of Bonamiosis

F24, F26, F34 & F43 - displayed mild focal haemocytic infiltration in the vesicular connective tissue surrounding the digestive gland.

F44-F75 - No evidence of Bonamiosis

F45, F50, F53, F60, F67, F71 & F74 - displayed mild focal to multifocal haemocytic infiltration in the vesicular connective tissue surrounding the digestive gland.

F76-F110 – No evidence of Bonamiosis

F77, F80, F82, F85, F91, F95, F101, & F107-F109 - displayed mild focal to multifocal haemocytic infiltration in the vesicular connective tissue surrounding the digestive gland.

F111-F150 – No evidence of Bonamiosis.

Differential Diagnosis

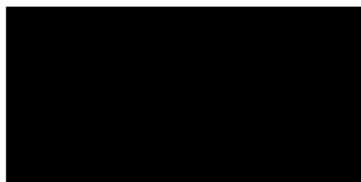
There was no evidence of Bonamiosis. Several oysters displayed mild focal to multifocal haemocytic infiltration in the vesicular connective tissue surrounding the digestive gland

Appraisal

As the test was negative for *Bonamia ostreae*, the movement restrictions covering the site have been withdrawn.

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

Signed:



Date: 06/01/2020

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

Case No: Date of visit:

Time spent on site: Main Inspector:

Site No: Site Name:

Business No: Business Name:

Case Types: 1 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:

Additional Case Information:

No issues on site, fish sampled for VMD appeared healthy

Case No: **2019-0710** Site No: **FS0473**
 Date of Visit: **25/11/2019** Inspector(s): **[REDACTED]**

Registration/Authorisation Details

1. Business/site details summary checked by site representative? **Y**
 2. Changes made to details? **N**

Site Details

Total No facilities	69	Facilities stocked	39	No facilities inspected	69
Species	SAL	RTR			
Age group	2019	OVA			
No Fish	38,526	7,034			
Mean Fish Wt	50g	n/a			
Next Fallow Date (Site)	No plans		Next Input Date (Site)	Feb 2020	

Recent (last 4 wks) disease problems? **N** Any escapes (since last visit)? **N**
 If yes, detail: **[REDACTED]**

Movement Records

1. Movement records available for inspection? **Y**
 2. Date of last inspection: **16/03/2019**
 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)? **[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? **Other (detail)**
 If other detail: **Incinerated off site**
 3. Mortality records complete and correctly entered? **Y**
 4. Recent mortality (last 4 wks): **42 fish across the site in 4 weeks**
 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, add MRT case and enter on mortality events sheet. **N/A**

1. Recent treatments (last 4 wks)?	<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"/>
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:	

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).	

Records checked between: 16/03/2019 - 25/11/2019

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	1-6	7-10										
	Pool Group												
Stock Details	Species	SAL	SAL										
	Average weight	50g	50g										
	Sex	N/A	N/A										
	Water Type	FW	FW										
	Stock Origin	Loch ailort	Own										
	Facility No	c23	c24										

Site No: FS0473

Case No: 2019-0710

Nature of non-compliance:

Action taken (FHI):

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



██████████
University of Stirling
Institute of Aquaculture
University of Stirling
Stirling
FK9 4LA
██████████

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0357	DATE OF VISIT	25/11/2019
SITE No	FS0473	SITE NAME	Niall Bromage Freshwater
	Field Station		
INSPECTOR	██████████	CASE No	20190710

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

The above site was visited in accordance with the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2015.

Samples were taken to be analysed for veterinary residues.

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

Medicine records were inspected and found to be adequately maintained.

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.

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

R20

Signed:



Fish Health Inspector

Date: 13/12/2019

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

R20

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

Case No: Date of visit:

Time spent on site: Main Inspector:

Site No: Site Name:
 Business No: Business Name:

Case Types: 1 2 3 4 5 6

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

Observations: Region: WI 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:

Additional Case Information:

Some movement record entries not maintained correctly.

Case No: **2019-0712** Site No: **FS0398**
 Date of Visit: **26/11/2019** Inspector(s): **[REDACTED]**

Registration/Authorisation Details

1. Business/site details summary checked by site representative? **Y**
 2. Changes made to details? **N**

Site Details

Total No facilities	12	Facilities stocked	10	No facilities inspected	12
Species	SAL				
Age group	2020 s1				
No Fish	580,000				
Mean Fish Wt	60g				
Next Fallow Date (Site)	march 2020	Next Input Date (Site)	April 2020		

Recent (last 4 wks) disease problems? **N** Any escapes (since last visit)? **N**
 If yes, detail: **[REDACTED]**

Movement Records

1. Movement records available for inspection? **Y**
 2. Date of last inspection: **07/12/2018**
 3. Are records complete and correctly entered? **N**
 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? **Other (detail)**
 If other detail: **White shore cockles**
 3. Mortality records complete and correctly entered? **Y**
 4. Recent mortality (last 4 wks): **341/site/last four weeks**
 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, add MRT case and enter on mortality events sheet. **N/A**

1. Recent treatments (last 4 wks)?	<input type="checkbox"/>	N
If yes, detail:	<input type="text"/>	
If other, detail:	<input type="text"/>	
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)?	<input type="text"/>	
If other, detail:	<input type="text"/>	
6. Are medicines stored appropriately?	<input type="checkbox"/>	Y

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"/>
<input type="text"/>	

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													
Fish nos	1-6	7-14	15-24	25-30	31-40								
Pool Group													
Species	SAL	SAL	SAL	SAL	SAL								
Average weight	100g	70g	70g	100g	60g								
Sex													
Water Type	FW	FW	FW	FW	FW								
Stock Origin	Loch a' Clachan	Loch a' Clachan	Loch a' Clachan	Loch a' Clachan	Loch a' Clachan								
Facility No	7	6	5	8	10								

██████████
Hebridean Smolts Ltd
Clachan Hatchery
Loch Carnan, South Uist
Western Isles
HS8 5PD
████████████████████

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0444	DATE OF VISIT	26/11/2019
SITE No	FS0398	SITE NAME	Clachan Hatchery
INSPECTOR	██████████	CASE No	20190712

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

The above site was visited in accordance with the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2015.

Samples were taken to be analysed for veterinary residues.

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

Medicine records were inspected and found to be adequately maintained.

Aquaculture animal and aquaculture animal product movement records were inspected and found to be **inadequately** maintained.

Mortality records were inspected and found to be adequately maintained.

The following points were raised with the site representative during the inspection:

Movement records

- The FS number was not used for source or destination sites, the FS number should be used for all entries, this was discussed at the time of inspection, no further action required;

R20

- Five entries did not have a site name or FS number recorded, these were:
 - 15/9/19 (194994 smolts)
 - 16/10/19 (173350 smolts)
 - 27/10/19 (86205 smolts)
 - For the above the name of carrier is not completed as well as method of transport multi source delivery and water exchange.
 - 11/4/19 (210598 smolts)
 - 12/4/19 (174949 smolts)

The movement records should be updated with the correct site name and FS number and confirmation provided to the Fish Health Inspectorate (contact details below) within 30 days of the date this report was issued.

Please contact myself or the duty inspector should you require any assistance or clarification in implementing any requirement or recommendation detailed in this report.

Signed:



Fish Health Inspector

Date: 02/12/2019

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

R20

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

Hebridean Smolts Ltd
Clachan Hatchery
Loch Carnan, South Uist
Western Isles
HS8 5PD

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0444	DATE OF VISIT	26/11/2019
SITE No	FS0398	SITE NAME	Clachan Hatchery
INSPECTOR		CASE No	20190712

Case completion report

Recommendations in relation to the above case were made for implementation by 30/01/2020. Following submission of the required documentation, evidence has now been provided to Marine Scotland to demonstrate that the recommendations have been implemented.

This case will now be closed. This site may be subject to further audit and recommendations in the future.

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: 04/02/2020

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

Case No:	2019-0713		Date of visit:	26/11/2019	
Time spent on site:	4h		Main Inspector:		
Site No:	FS1280	Site Name:	Loch Carnan		
Business No:	FB0398	Business Name:	Loch Duart Ltd		
Case Types:	1 ECI	2 CNI	3 SLI	4 VMD	5
Water Temp (°C):	10.4	Thermometer No:	T173	FHI 045 completed	
Observations:	Region:	WI	Water type:	S	CoGP MA W-17
Dead/weak/abnormally behaving fish present?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.			
Clinical signs of disease observed?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.			
Gross pathology observed?	<input type="checkbox"/>	If yes, see additional information/clinical score sheet.			
Diagnostic samples taken?	<input type="checkbox"/>				

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

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Additional Case Information:

New seal pro nets throughout the site.

Only two pen groups remain (to confirm what is going to remain)

Sandavaig has six pens currently but all fallow, South Ford has had all pens removed. South ford east has 12 pens input in 2016.

Previous cycle only one year at sea.

One import of 127,566 sal smolt from Murphy's Irish Seafoods, Borlin Hatchery, Derrynafinchin Bantry on 9/4/2018.

Site was stocked this year at the start of October, fish responding well to feed.

Last cycle 3 salmosan treatments (May, April and January 2019) one Slice treatment in July 2018

AFSA 2013 movements of cleaner fish covered but not for salmon

Two mortality events had been reported for w/b 10/7/2017 (4.4%) and 17/7/2017 (1.7%) cause recorded as complex gill issues and treatment, site was inspected by FHI at the time (case 2017-0293)

Some sea lice numbers above the reporting threshold had not been reported in 2017, week 26, 27 and 29. The number submitted to the FHI for week 20 was 3.88 the number noted on site was 3.56 (Update 18/12/19, site contact confirmed that discrepancies were due to multiple counts being taken during the week and the number submitted was correct at the time of reporting however the average changed following the additional counts. The unreported counts was an oversight by staff, new procedures have been implemented since then)

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

Total No facilities	<input type="text" value="18"/>	Facilities stocked	<input type="text" value="9"/>	No facilities inspected	<input type="text" value="9"/>
Species	<input type="text" value="SAL"/> <input type="text" value="WRA"/>				
Age group	<input type="text" value="S0"/>	<input type="text" value="wild mix"/>			
No Fish	<input type="text" value="334,500"/>	<input type="text" value="4,449"/>			
Mean Fish Wt	<input type="text" value="293g"/>	<input type="text" value="Not known"/>			
Next Fallow Date (Site)	<input type="text" value="July 2021"/>		Next Input Date (Site)	<input type="text" value="September 2021"/>	

Recent (last 4 wks) disease problems? Any escapes (since last visit)?

If yes, detail:

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, add MRT case and enter on mortality events sheet.

1. Recent treatments (last 4 wks)?	<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).	AGD has been detected this year but no treatments required as of yet	

Records checked between: 21/6/2016 to 26/11/2019

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	1-14	15-30										
	Pool Group												
Stock Details	Species	SAL	SAL										
	Average weight	300g	300g										
	Sex												
	Water Type	SW	SW										
	Stock Origin	Ormsary smolt unit/(No Suggestions)	Ormsary smolt unit/clachbreach										
	Facility No	1	12										

Case Number:	2019-0713	Site No:	FS1280	Insp:		
Date of Visit	26/11/2019	No of movements/supp./dest.			Score	
Live fish movements		0	1-5	6-10	>10	
Movements on (from out with GB) of susceptible species	Frequency of movements on from equivalent MS	0	5	10	14	5
	Frequency of movements on from equivalent zone or compartment including third country	0	9	18	26	
	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	
Exposure via water	Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0				
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		2
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6		
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		
Management practices		None	Secure	Unsecure		
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm processing	0				
	Processing own fish (re-cycling risk)	1				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				
Biosecurity	Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating from single shorebase	0	1	2		0
	Sites sharing staff and equipment	0	1	2		
Disinfection of equipment between sites, use of footbaths etc	Yes	0				0
	No	1				
CoGP/Regulator						
Practices in accordance with regulator or industry code of practice	Yes	0				0
	No	3				
Platform access to cages	Yes	0				0
	No	2				
Total Rank					13	LOW

Case No: **2019-0713**

Site No: **FS1280**

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)

ADD	Top nets	SE MML	seal blinds

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: 2019-0713

Site No: FS1280

Date of Visit: 26/11/2019

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?

 n

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

 n

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?

[REDACTED]
Loch Duart Ltd
Badcall Salmon House
Scourie, Lairg
Sutherland
IV27 4TH
[REDACTED]

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0398	DATE OF VISIT	26/11/2019
SITE No	FS1280	SITE NAME	Loch Carnan
INSPECTOR	[REDACTED]	CASE No	20190713

Case completion report

Recommendations in relation to the above case were made for implementation by 10/01/2020. Following submission of the required documentation, evidence has now been provided to Marine Scotland to demonstrate that the recommendations have been implemented.

This case will now be closed. This site may be subject to further audit and recommendations in the future.

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: 06/01/2020

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

Loch Duart Ltd
Badcall Salmon House
Scourie, Lairg
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IV27 4TH

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0398	DATE OF VISIT	26/11/2019
SITE No	FS1280	SITE NAME	Loch Carnan
INSPECTOR		CASE No	20190713

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, and to meet the requirements of European Community Council Directive 2006/88/EC.

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 low. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every third 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 **inadequately** maintained.

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

Mortality records were inspected and found to be adequately maintained.

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

R25

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

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

Movement records

- The FS number was not used for source sites, the FS number should be used for all entries, this was discussed at the time of inspection, no further action required.

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.

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.

Two minor issues were noted in the Farm management Statement, these were discussed during the inspection, no further action is required.

The site was found to have had average adult female *Lepeophtheirus salmonis* ('sea lice') per fish counts of 3 or above. Some counts (week 26, 27 and 29 of 2017) had not been reported to the Fish Health Inspectorate as part of the required measures to demonstrate that satisfactory measures are in place for the control of sea lice.

Where the average adult female sea lice per fish count reaches 3 or above, prior to 10/6/19, or above 2 after 10/6/2019, this must be reported to the Fish Health Inspectorate within seven days of the date of the count. Please ensure that future counts that exceed the reporting level are reported to the Fish Health Inspectorate.

Recommendations were also issued in relation to sea lice records:

- The site did not have a harvesting strategy where fewer populations or part populations are held without treatment for sea lice;
- There was no site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation.

Please ensure that these points have been addressed by 6th January 2020. Records or documentation demonstrating that these points have been addressed should be sent to the Fish Health Inspectorate (contact details below). The site may be subject to further inspection or enforcement action should the appropriate action regarding the above points not be taken within the time period stipulated.

R25

Please contact myself or the duty inspector should you require any assistance or clarification in implementing any requirement or recommendation detailed in this report

Signed:



Fish Health Inspector

Date: 05/12/2019

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