FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0562			Date of visit: 20/11/2019
Time spent on site:	4.5 hours	Main Inspect	tor:
Site No: SS0759 Business No: SB0530	Site Name: Business Name:	Fearna Loch Striven Mussel Farms L	td
Case Types: 1 MOV	2 3	4 5	6
Water Temp (°C):	Thermometer No:		FHI 045 completed
Observations:	Region: ST	Water type: S	CoGP MA
Dead/weak/abnormally behavin Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?	-	N If yes, see additional info	ermation/clinical score sheet. ermation/clinical score sheet. ermation/clinical score sheet.
UNI/REG only - if unable to carr	ry out intended visit deta	ail reason below:	

## **Additional Case Information:**

INTRA.GB.2019.033119 certificate issued.

18 tonnes to Cloughmore Shellfish.

No issues and no hitchhiker species observed.

FHI 059, Version 12	Issu	ed by: FHI	Date of issue: 08/10/2018
Case No: 20	19-0562 Site No:	SS0759	
Date of Visit:	20/11/2019	Inspector(s):	
Registration/Authorisa 1. Business/site details 2. Changes made to de	summary checked by site representa	ative?	Y Y
Site Details Total No facilities Species Age group No Fish  Site Details  ME 20		cked 3	No facilities inspected 0
Mean Fish Wt 30			
Next Fallow Date (Site)	December 2019	Next Input Date (Site)	Natural spat
Recent (last 4 wks) dise	ease problems?	N Any escapes	(since last visit)?
<ul><li>5. Are records complete</li><li>6. Are health certificates</li></ul>	n: e and correctly entered? ds available for dead fish and waste?		Y 14/11/2019 Y N/A N/A N/A
_	carried out by (or on behalf) of the bu in place for maintenance of transpor		
Mortality Records  1. Mortality records ava  2. How are mortalities d	isposed of?	Other (detail	N/A
	and shells fall to seabed applete and correctly entered?  4 wks):  No observed	d mortality	N/A
	creased/atypical mortalities? ortality per facility/no stock per facility		N/A
6. Any other peaks in m If yes, detail:	ortality during period checked?		N/A
If yes, detail action:	xplained) mortalities been reported to s' been reported to FHI? If no, add M		N/A N/A N/A

FHI 059, Version 12	Issue	ed by: FHI	Date of issue: 08/10/2018
1. Recent treatments (last If yes, detail: If other, detail: 2. Medicines records avail 3. Are records complete at 4. Are fish in a withdrawal 5. If yes, what treatment(s If other, detail:	ilable for inspection? and correctly entered? I period? s)?		
6. Are medicines stored ap  Biosecurity Records	ppropriately?		
Biosecurity records available 2. Has the manner and free 3. Has the manner and peincreased (unexplained) records available 1.	equency of mortality removal, record eriod in which the APB will notify Sc mortality at the site been included?	ottish Ministers or veterinary profe	essional of any
is detected been included	be taken in the event that the prese and how and when that will be not f aquaculture animals being stocked if required)?	tified to Scottish Ministers?	
transmission of disease be 7. Is documentation availa aquaculture animals held of	nd biosecurity measures implemented een covered (movement of staff, vis able regarding the measures in plac on site? Tocedures been adequately impleme	sitors, equipment, live or dead fish se to maintain the physical contain	n etc.)?
Results of Surveillance			
1. Has any animal health s	surveillance been carried out by, or	on behalf of, the business?	N

14/11/2019 - 21/11/2019

2. If yes, are results available for inspection?

If yes, detail (if not detailed under recent disease problems).

Records checked between:

3. Any significant results?

Case No:	2019-0562	Date of visit: 20/11/2019							
Site No:	SS0759	l		Inspector:		l			
Results Summary	Freq.			Date of Notification					
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp	
Report Summary									
Report Summary Case Type	Date	Inco	ond I						
MOV		Insp	2 <sup>nd</sup> Insp						
MOV	12/12/2019								





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.

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

Date: 12/12/2019

Signed:

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0563			Date of visit: 21/11/2019
Time spent on site:	3.5 hours	Main Inspect	tor:
Site No: SS0759 Business No: SB0530	Site Name: Business Name:	Fearna Loch Striven Mussel Farms L	td
Case Types: 1 MOV	2 3	4 5	6
Water Temp (°C):	Thermometer No:		FHI 045 completed
Observations:	Region: ST	Water type: S	CoGP MA
Dead/weak/abnormally behavin Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?	-	N If yes, see additional info	ormation/clinical score sheet. ormation/clinical score sheet. ormation/clinical score sheet.
UNI/REG only - if unable to care	ry out intended visit deta	ail reason below:	

## **Additional Case Information:**

INTRA.GB.2019.0033120 certificate issued

14 tonnes to Cloughmore Shellfish

No issues and no hitchhiker species observed.

FHI 059, Version 12			Issu	ed by: FHI			Date of issu	ie: 08/10/2018
Case No:	2019-0563		Site No:	SS0759				
Date of Visit:		21/11/2019	9		Inspector(s)	:		1
1. Business/site deta	ails summary		site representa	ative?			Y N	- }
Site Details Total No facilities Species	MED 2018	10	Facilities sto	cked	1	No facilitie	es inspected	0
No Fish	13 tonnes							
Mean Fish Wt	30g							
Next Fallow Date (S	íte)	Dec 2019		Next Input Da	ate (Site)	Natural sp	at	
Recent (last 4 wks) (lf yes, detail:	disease probl	ems?		N	Any escapes	s (since last	visit)?	N
Movement Records	s							
<ol> <li>Date of last inspe</li> <li>Are records comp</li> <li>Are movement re</li> </ol>	ction: plete and corre cords availabl	ectly entered	? sh and waste?	,			14/11/2019	Y N/A N/A
		luctions (out	vith GB) availa	able?				N/A
1. Are any movemen	nts carried ou			•	_			
•		•			Other (detai	1)		N/A
If other detail:	Dead shells	fall to sea be			Other (detail	1)		
•	•	correctly ent		l mortality				N/A
		• •	lities?					N/A
	n mortality du	ring period cl	hecked?					N/A
Date of Visit:  Registration/Authorisation Details  1. Business/site details summary checked by site representative?  2. Changes made to details?  Site Details  Total No facilities Species Age group No Fish 13 tonnes Mean Fish Wt Next Fallow Date (Site)  Recent (last 4 wks) disease problems?  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. Movement scarried 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 available for inspection? 2. How are mortalities disposed of?  Other (detail)		N/A						
	ents' been re	ported to FH	? If no, add M	IRT case and e	enter on mort	ality events	sheet.	N/A

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Recent treatments (last 4 wks)?		
If yes, detail:		
Medicines records available for inspersions.	ection?	
3. Are records complete and correctly e		
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 insp	pection?	
• •	ortality removal, recording and safe disposal be	
•	the APB will notify Scottish Ministers or vetering	ary professional of any
increased (unexplained) mortality at the	le site been included?	
4 Has the action that will be taken in th	ne event that the presence or suspicion of the pr	resence of a listed disease
	d when that will be notified to Scottish Ministers	
5. Has the health status of aquaculture	animals being stocked on the farm site been co	overed (equal or higher
health status, certification if required)?		
•	measures implemented between each epidemi	
	(movement of staff, visitors, equipment, live or o	
7. Is documentation available regarding aquaculture animals held on site?	g the measures in place to maintain the physical	containment of
8. Have the biosecurity procedures bee	en adequately implemented on site?	
If no, detail:		

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

**Results of Surveillance** 

3. Any significant results?

2. If yes, are results available for inspection?

If yes, detail (if not detailed under recent disease problems).

Records checked between:

14/11/2019

Case No:	2019-0563			Date of visit:	21/11/2019				
				'					
Site No:	SS0759			Inspector:					
Results Summary	Freq.			Date of Notification					
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp	
			<b>-</b>						
Report Summary				1					
Case Type	Date	Insp	2 <sup>nd</sup> Insp						
MOV	12/12/2019								
	1								





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 NoSB0530Date of Visit21/11/2019Site NoSS0759Site NameFearnaInspectorCase No20190563

### 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

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

Date: 12/12/2019

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0666			Date of visit: 06/11/2019
Time spent on site:	hours	Main Ir	nspector:
Site No: FS0336 Business No: FB0169	Site Name: Business Name:	Druimyeon Bay The Scottish Salmon Co	ompany
Case Types: 1 REP	2 DIA 3	4 5	6
Water Temp (°C): 12.3	Thermometer No:	Site	FHI 045 completed
Observations:	Region: ST	Water type: S	CoGP MA M-46
Dead/weak/abnormally behaving Clinical signs of disease observe Gross pathology observed? Diagnostic samples taken?		Y If yes, see addition	al information/clinical score sheet. al information/clinical score sheet. al information/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit deta	ail 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.

FHI 059, Version 12			Issu	ied by: FHI			Date of issu	ıe: 08/10/2018
Case No:	2019-0666		Site No:	FS0336				
Date of Visit:		06/11/2019	· ·		Inspector(s):			]
Registration/Autho  1. Business/site deta  2. Changes made to	ails summary		ite representa	ative?			Y N	-
Site Details								
Total No facilities Species	Sal	16 lump	Facilities sto	cked	11	No facilitie	s inspected	6
Age group No Fish	2018 S0 331,000	adult 50,174						
Mean Fish Wt	3.6	50g						
Next Fallow Date (Si	ite)	March 2020		Next Input Da	ate (Site)	Sept 2020		
Recent (last 4 wks) of If yes, detail:	disease probl Gill issues	ems?		Y	Any escapes	s (since last v	visit)?	N
Movement Records	5							
<ol> <li>Movement records</li> <li>Date of last inspect</li> <li>Are records compt</li> <li>Are movement records</li> <li>Are records compt</li> <li>Are records compt</li> <li>Are health certification</li> </ol>	ction: plete and corre cords availab plete and corre	ectly entered? le for dead fis ectly entered?	? sh and waste? ?				01/05/2019	Y Y Y Y N/A
Transport Records  1. Are any movement If yes, is there a systematical experience of the system of t	nts carried ou			•	_			
Mortality Records	Table faci							
<ol> <li>Mortality records a</li> <li>How are mortalities</li> </ol>		•			Whole fish -	Dundas Che	emicals	'
If other detail: 3. Mortality records of 4. Recent mortality (	•	correctly ente	ered? see additiona	al info				Y
5. Evidence of recently fyes, facility nos/no	nt increased/a	• •	lities?					Y
across site - all facili	• •	•			mp has coinc	ided with im	proved mort	figures
6. Any other peaks in	n mortality du	uring period ch	necked?					Y
If yes, detail:	PD in summ	er - see addio	onal informatio					
7. Have increased (ull lift yes, detail action:	inexplained)	mortalities be	en reported to	vet or FHI?				N/A
8. Have 'mortality ev	ents' been re	ported to FHI	? If no, add M	IRT case and e	enter on morta	ality events s	heet.	Y

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
1. Recent treatments (last 4 wks)?		Y
If yes, detail:		
Hydrolicer		
and		
If other, detail: thermolicer		
2. Medicines records available for in	•	Y
3. Are records complete and correct	y entered?	Y
4. Are fish in a withdrawal period?		Y
5. If yes, what treatment(s)?	TMS	
If other, detail:		
6. Are medicines stored appropriate	y?	Y
Biosecurity Records		
Biosecurity records available for in	nspection?	
•	mortality removal, recording and safe disposal bee	n considered?
	ich the APB will notify Scottish Ministers or veterinar	
increased (unexplained) mortality a		y professional of any
moreacea (arrespiantea) menanty a	. The one book moradou.	
4 Has the action that will be taken in	n the event that the presence or suspicion of the pre	sence of a listed disease
	and when that will be notified to Scottish Ministers?	
	ure animals being stocked on the farm site been cov	
health status, certification if required	-	crea (equal or riigher
	, .	
6 Have the husbandry and biosecur	ity measures implemented between each epidemiol	ogical unit to minimise
•	ed (movement of staff, visitors, equipment, live or de	
	ling the measures in place to maintain the physical of	
aquaculture animals held on site?	and private in place to maintain the private in	
•	peen adequately implemented on site?	

PGD

1/5/19 -6/11/19

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

If no, detail:

**Results of Surveillance** 

3. Any significant results?

2. If yes, are results available for inspection?

If yes, detail (if not detailed under recent disease problems).

Records checked between:

	11 055, Version 12			_				133	ueu by. i	• • •			
	Case no:	2019-06	666	Site No:		FS0336			Date of v		06/	11/2019	06/
	Priority samples:	VI		ВА		PA		MG	Sampling	J. HI			
	Time sampling starts/ends:	12:0	00:00	13:3	0:00	l	Inspector	:			VMD No	o.	0
	Environmental conditions:	1	Indoors	2		3		4		5			
	Summary samples	HIST	Υ	ВА	Υ	MG	Y	/I	Υ	PA		Total Sa	mples
A	dd Fish/Pools - click												
Г	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						
	Average weight	3.0000	3.0000	3.0000	3.0000	3.0000	3.0000						
	Sex												
	Water Type	SW	SW	SW	SW	SW	SW						
	l												
	l												
		E.	Ē	Burn	E.	E	틸						
<u></u>		В	<u> </u>	BL	В	В	<u> </u>						
Details		sel	se	sel	se	sel	se						
공	Stock Origin	Russel Burn	Russel Burn	Russel	Russel Burn	Russel Burn	Russel Burn						
Sto	Facility No						9,11,14						
U,	,	, , , , , ,	,,,,,,	0,11,10	,,,,,,	·, · · , · ·	•, • •, • •						

Additional Sample Information:  6 Total Tests assigned 6		· · · · · · · · · · · · · · · · · · ·											
	11/2019	1/2019 Additional Sample Information:											
6 Total Tests assigned 6													
	6	l	Total T	ests ass	igned	6							

FHI 059, Version 12 Issued by: FHI Date of issue: 08/10/2018 Method of killing: Percussive Case no: Site No: FS0336 2019-0666 Inspector(s): Sheet Relevant: Y Date of visit: 06/11/2019 S for strong presence: M for medium presence: W for weak presence Time sampled after death (if > 45 minutes) External Signs Behaviour Moribund Lethargic Hanging vertical Spiralling Flashing Loss of equilibrium Body Dark Distended abdomen Scale Oedema Opercula Shortened Flared Haemorrhaging Throat Ventrum S Base of fins Elsewhere Eyes Exophthalmic Enophthalmic (sunken) Cataract Haemorrhagic Gills Pale S Zoned Necrotic M Lesions Flank Elsewhere Vent Inflamed Trailing faeces 10+ 30+ 30+ Lice Load Estimate numbers Internal Signs Clear Ascites М Bloody Oedema In tissues Heart Pale/anaemic Granulomas Deformed Liver Petechial haem Gross haem Tissue breakdown Enlarged Colour number(s) Granulomas Lesions Pyloric caeca Petechial haem Tubules mauve Lack of fat Spleen Enlarged Granulomas Gut No food present Yellow pseudo-faeces External haem Internal haem Body wall Haemorrhaging Swim bladder Haemorrhaging Fluid filled Kidney Swollen

Grey Granular Liquefied Parasites present

Anaemia

General

M

Case no: 2019-0666

Date of visit: 06/11/2019

Date of visit.	00/11/20	19					
<b>S</b> for strong preser	nce: M for medium presence: W fo	or w					
Fish Number	·						
	er death (if > 45 minutes)						
External Signs	,						
Behaviour	Moribund						
	Lethargic						
	Hanging vertical						
	Spiralling						
	Flashing						
	Loss of equilibrium						
Body	Dark						
	Distended abdomen						
	Anorexic						
	Scale Oedema						
Opercula	Shortened						
	Flared						
Haemorrhaging	Throat						
gg	Ventrum						
	Base of fins						
	Elsewhere						
Eyes	Exophthalmic						
,	Enophthalmic (sunken)						
	Cataract						
	Haemorrhagic						
Gills	Pale						
	Zoned						
	Necrotic						
Lesions	Flank						
Lociono	Elsewhere						
Vent	Inflamed		_	_			
VCIIC	Trailing faeces						
Lice Load	Estimate numbers			_			
LICE LOAU	Estillate liulibers						
Internal Signs							
Ascites	Clear						
Ascites	Bloody			_			
Oedema	In tissues						
Heart	Pale/anaemic			_			
ricart	Granulomas						
	Deformed			_			
Liver	Petechial haem						
LIVEI	Gross haem						
	Tissue breakdown						
	Enlarged						
	Colour number(s)						
	Granulomas						
	Lesions						
Dularia casas							
Pyloric caeca	Petechial haem						
	Tubules mauve						
Ouls su	Lack of fat						
Spleen	Enlarged						
Cost	Granulomas			_			
Gut	No food present						
	Yellow pseudo-faeces						
	External haem						
D 1 "	Internal haem						
Body wall	Haemorrhaging						
Swim bladder	Haemorrhaging						
	Fluid filled						
Kidney	Swollen						
	Grey						
	Granular						
	Liquefied						
General	Parasites present						
	Anaemia						

3-enlarged heart	FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/201
3 -enlarged heart	Additional comments:		
	F3 -enlarged heart		
			I
<b>■</b>			

Site No: FS0336

Case No: 2019-0666

Nature of non-compliance:

Action taken (FHI):

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

 Case No:
 2019-0666
 Date of visit: 06/11/2019

 Site No:
 FS0336
 Inspector: AJW

Results Summary	Freq.	q. Date of Notification							
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp	
MG BKD, IHN, IPN,	0/1	13/11/2019	9	13/11/2019					
ISA, VHS						07/01/2020			
MG AGD	4/5	13/11/2019	9	13/11/2019		07/01/2020			
MG Para Ther	5/5	13/11/2019	9	13/11/2019		07/01/2020			
MG SAV	1/1	13/11/2019	9	13/11/2019		07/01/2020			
MG Sal Pox	1/5	13/11/2019	9	13/11/2019		07/01/2020			
AMGD	2/5	29/11/2019	9	06/12/2019		07/01/2020			
CGDH	3/5	29/11/2019	9	06/12/2019		07/01/2020			
GPAT	3/5	29/11/2019	9	06/12/2019		07/01/2020			
GRAN	1/5	29/11/2019	9	06/12/2019		07/01/2020			
KPAT	1/5	29/11/2019	9	06/12/2019		07/01/2020			
VSPE	2/5	29/11/2019	9	06/12/2019		07/01/2020			
VVIS	1/5	29/11/2019	9	06/12/2019		07/01/2020			
MG Pisci	0/1	29/11/2019	9	06/12/2019		07/01/2020			
	1			1		1			
				1	1				
		1		1		1		1	
		1		1	Ī			1	
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		1	i e					1	
				T T				i	

Report Summary			
Case Type	Date	Insp	2 <sup>nd</sup> Insp
Diag, Rep	07/01/2020		
	·	·	
	4	1	1





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

## FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0169
SITE NO FS0336
INSPECTOR

DATE OF VISIT 06/11/2019
SITE NAME Druimyeon Bay
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	ı	ı	ı	Negative
F2	22.20	-	-	-	Negative
F3	22.54	-	-	-	Negative
F4	22.47	-	-	ı	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	-	-	ı	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

**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:

<u>Gill</u>: Mild multifocal interlamellar hyperplasia and lamellar fusion (F2, F3, F5) and focal area of hyperplasic plaques with delated vessels filled with neutrophil-like cells (F3). Scatter lamellae with epithelial thickness, 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.

<u>Skin & Muscle</u>: 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.

<u>Heart</u>: 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.

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

<u>Kidney</u>: 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 cells 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

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

Date: 07/01/2020





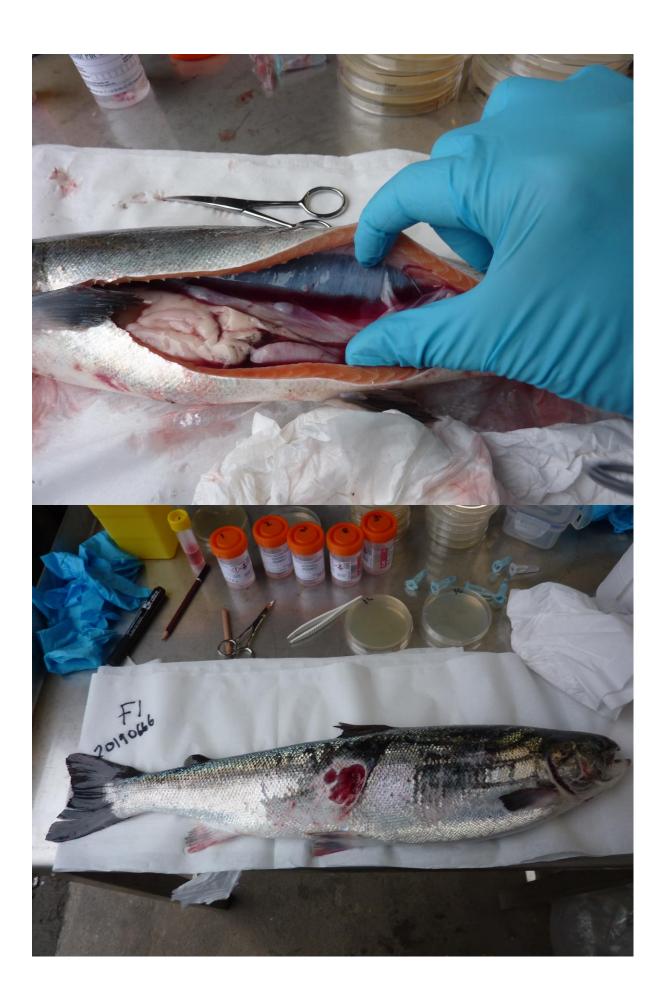












FHI 059, Version 12	ls	sued by: FHI	Date of	issue: 08/10/2018		
Case No: 2019-0668			Date of visit:	04/11/2019		
Time spent on site:	n	Main	Inspector:			
Site No: FS0621 Business No: FB0398	Site Name: Business Name:	Loch A Chairn Bhain Loch Duart Ltd				
Case Types: 1 ECI 2	2 CNI 3 SLI	4 VMD 5	6			
Water Temp (°C): 11.4	Thermometer No:	T173	FHI 045 comple	eted		
Observations:	Region: HI	Water type: S	CoGP MA	M-6		
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	n If yes, see addition	onal information/clinical so onal information/clinical so onal information/clinical so	ore sheet.		
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.

FHI 059, Version 12			Issu	ed by: FHI			Date of issu	ue: 08/10/2018
Case No:	2019-0668		Site No:	FS0621	<u>i</u>			
Date of Visit:		04/11/2019			Inspector(s)	):		]
Registration/Autho 1. Business/site deta 2. Changes made to	ails summary		ite representa	ative?			N/A N/A	- -
Site Details								
Total No facilities		26	Facilities sto	cked	8	No facilitie	es inspected	24
Species	SAL	WRA						
Age group	2019 s1	wild						
No Fish	472,000	2,961 ~120g						
Mean Fish Wt	1kg			Marris Immed D	1 - (0:4-)	A 1 2024		
Next Fallow Date (S	ite)	Nov 2020		Next Input Da	ate (Site)	April 2021		
Recent (last 4 wks) of If yes, detail:			with freshwate	Y er September a	Any escapes	•	,	N is week)
Movement Records	S							
1. Movement record	ls available fo	r inspection?						Y
2. Date of last inspe							04/10/2016	
<ol> <li>Are records comp</li> <li>Are movement re</li> </ol>		•						Y
<ol> <li>Are movement ref</li> <li>Are records comp</li> </ol>								Y
6. Are health certific				able?				N/A
Transport Records								
Are any movement		t by (or on be	half) of the bu	usiness (not us	sing a STB)?			N
If yes, is there a syst		• •	•	•				
Mortality Records								
1. Mortality records a								Y
2. How are mortalitie					Other (detai	l)		
If other detail:			Greys compost	ting				
Mortality records (     Percent mortality (	•	correctly ente		· lus -m EEC	20 (4 400/ ) \A	( O		Y
4. Recent mortality (	`	t missl morts		rts salmon 552	.8 (1.48%), vv	rasse u.		N
<ol><li>Evidence of recer</li><li>If yes, facility nos/no</li></ol>		• •		reason:				IN
II yes, facility 1103/110	mortality per	lacility/110 3to	ick per raciity	Teason.				
6. Any other peaks i	n mortality du	uring period ch	necked?					N
If yes, detail:								
7. Have increased (u	unexplained)	mortalities be	en reported to	vet or FHI?				N/A
If yes, detail action:		, 14- FIII	O. I.C. and all N			"		NI/A
8. Have 'mortality ev	/ents' been re	ported to FHI	? If no, add M	IRT case and c	enter on mort	ality events s	sheet.	N/A

#### Results of Surveillance

If no. detail:

aquaculture animals held on site?

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

8. Have the biosecurity procedures been adequately implemented on site?

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

- 2. If yes, are results available for inspection?
- 3. Any significant results?

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

П	11 059, Version 12							ISS	sued by:	гпі			
	Case no:	2019-06	668	Site No:		FS0621			Date of Samplin		04/	11/2019	05/
	Priority samples:	VI		ВА		PA		MG		g. HI		l	
	Time sampling starts/ends:		0:00		0:00		Inspecto				VMD No	o.	10
	Environmental conditions:	1	Dry	2	Wet	3	Cloudy	4	Calm	5			
	Summary samples	HIST		ВА		MG		VI		PA		Total Sa	mples
A	dd Fish/Pools - click												
Г	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								
	Water Type	SW	SW	SW	SW								
tock Details		o Duartmore	Duartmore	Duartmore	Duartmore								
S	I acility NO	ວ	5	10	10								

11/2019	Addition	nal Sam	ple Infor	mation:									
	Sampling conducted on the 5/11/19												
0	1	Total To	ests ass	signed	0	l							

FHI 059, Version 12		Issued by: FHI			Date of	of issue	: 08/10/2018
Case Number:	2019-0668		Site No:	FS0621		Insp:	
Date of Visit	04/11/2019		No of m	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of n	novements on from equivalent MS	0	5	10	14	0
with GB) of susceptible species		novements on from equivalent zone or	0	9	18	26	
Special Control of the Control of th	Number of sup	ncluding third country	0			14	0
Mayawanta aff							
Movements off	Frequency of n Number of des		0			10 10	3
Exposure via water	rtaniber of des	Site contacts		_			
Water contacts with other	Farm is protect	ed (secure water supply through					
farms (holding species	disinfection or l	,	0				0
susceptible to same diseases)		or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		2
,		or in a coastal zone with category III					$\vdash$
		n or within 1 tidal excursion	1	3	6		igsquare
		or in a coastal zone with category V n or within 1 tidal excursion	1		8		
	iaims apstream	TOT WILLIEF T LIGHT EXCULSION	<u>'</u>	-	<u> </u>		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	g plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	0				
	Processing own	n fish (re-cycling risk)	1				1
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent state	n from zone or compartment of us	4				
	Processing fish	from Category III farm	8				
	Processing fish	n from Category ∨ farm	10				
Disposal of fish and fish by-	Site's own was	te only processed.	0	1			
products	Common proce	esses with other farms	3				3
	Collection poin	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0	i			0
	Feeding unpas	teurised 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 s	taff and equipment	0	1	2		
Disinfection of equipment	Yes		0	]			0
between sites, use of footbaths etc	No		1				-
CoGP/Regulator				•			
Practices in accordance	Yes		0	1			0
with regulator or industry code of practice	No		3				$\vdash$
code of practice				J			
Platform access to cages	Yes		0				0
	No		2				
					Total		13
					Rank		LOW

Case No:	2019-0668	Site No: FS0621	
Sea Lice Inspection (S	Seawater Sites Only)		
1. Has the site experier	iced sea lice problems	s in the previous 4 years?	N
2. Is the CoGP Farm M	anagement Area (or e	quivalent) fallowed synchronously on a single year class basis?	Υ
	mectin benzoate) as	enced in-feed and bath sea lice medications (including deltamethrin, well as access to suitable biological and/or mechanical control measures, and d of time?	Υ
4. Is there a signed doo Management Area (or e		ement agreement or statement relevant to the site and CoGP Farm	Υ
5. Are sea lice count re	cords available for ins	pection? (Legal SSI, CoGP Annex 6)	Υ
6. Do records adequate	ly reflect the required	standard specified in the SSI and the CoGP? (Legal SSI, CoGP Annex 6)	Υ
7. Are sea lice ( <i>L. salme</i> records are inspected?		low the suggested criteria for treatment in the CoGP during the period that	Υ
	•	monis) numbers per fish been at a level of 3 or above (prior to w/b 10/6/19) or od that records are inspected?	N
If yes, have these been	reported to the Fish I	Health Inspectorate? If no, FHI see comment.	N/A
9. Is <i>C. elongatus</i> infes	tation at a level which	is considered to cause significant welfare problems? (CoGP 4.3.81, 5.3.50)	N
•		stered or other actions taken when <i>L. salmonis levels</i> have exceeded the elongatus is considered to have welfare implications? (CoGP 4.3.82, 5.3.51)	N
11. Has any other actio	n been taken (where a	applicable)?	N/A
•	•	s taken had a significant impact upon the lice levels recorded?	Υ
•		out in cooperation between participating farms?	N/A
		where fewer populations or part populations are held without treatment for	N
15. Is there a site speci scenarios during the es	_	ement procedure with waypoints describing set actions to deal with recognised nfestation?	N
16. Do the sea lice leve	ls observed on stocks	reflect sea lice count data? If no please detail reasons.	Υ
Containment Inspection	on		
1. Has the site experier	iced equipment dama	ge due to predators in the current or previous production cycles?	Υ
2. Are measures in plac	ce to mitigate against	the predation experienced on site? (Detail below)	Υ
Predator box net Al	MML	Top nets	
If other, detail below:			
<ol> <li>Have escape incider</li> </ol>	nts or events been exp	perienced on or in the vicinity of the site since the last FHI inspection?	N
If Yes proceed with que	stions 4 – 9. If No skij	to question 10	
4. Have these been rep	orted to Scottish Minis	sters?	
5. Have these been rep	orted to local DSFB fo	orthwith (where they exist)? (CoGP - 4.4.37, 5.4.17)	
6. Have these been rep	orted to the SSPO an	d local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)	
7. Were methods (if any	y) used to recover esc	apees? If yes give detail	
O If all noto were deal-	wood was this satisfier	grood with local wild fish interests and was normissing siven by Coefficia	
Ministers? (Legal, CoG	P – 4.4.38, 5.4.18)	greed with local wild fish interests and was permission given by Scottish	
		mise the risk of further escapes? (Not covered in code but could	
be considered under	•	·	
10. Is the site inspected	l as satisfactory with r	egards to containment? If no, please detail reason(s)	Υ

Issued by: FHI

FHI 059, Version 12

Date of issue: 08/10/2018

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0668	Site No: FS0621	
Date of Visit: 04/11/201	19 Inspector:	
Point of Compliance		
1. Is the farm under inspection located	d within a farm management area?	Y
If N, no further questions require comp	pletion.	
Points of Compliance for Both Farn	m Management Agreements and Statements	
<ul><li>3. Is the current FMAg/S available for</li><li>4. Does the FMAg/S identify the relevant</li><li>5. Does the FMAg/S identify the fish fa</li></ul>	ant farm management area? arm site(s) to which it applies? of commencement of the agreement or statemer of review?	у у у
	num health standards for the stocks to be introdu	uced to the area or y
<ol> <li>Does the FMAg/S identify the vaccin</li> <li>Does the FMAg/S identify the special</li> </ol>	nation requirements for stocks held in the area o cies of fish which may be stocked into the area o kimum stocking density of any pen on any farm in	r farm?
12. Does the FMAg/S identify the arra fish farm in the area or the individual	ingements for the storage and disposal of any de farm?	ead fish from any
Arrangements for The Management	t of Sea Lice	
13. Does the FMAg/S identify arrange	ements for the sharing of data on sea lice number	rs and treatments?
14. Does the FMAg/S identify the avail of statement?	ilability and the use of medicines on farms covere	ed by the agreement Y
15. Does the FMAg/S identify any require on farms in the area or individual f	uirements for the sensitivity testing of available tr farms?	
16. Does the FMAg/S identify the circuused on farms in the area or individua	umstances under which biological controls and c al farms?	
17. Does the FMAg/S identify the arra	ingements for synchronous treatments on farms	within the area?
Live Fish Movements		
area or farm?	umstances when live fish may be introduced or re	

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/20
Harvesting		
20. Does the FMAg/S identify acceptable	e harvest practices on farms in the area or ind	lividual farms?
Fallowing		
21. Does the FMAg/S identify the dates be date when a farm or area may be restock	by which the area or individual farm will be fall	low and the earliest
22. Does the FMAg/S identify whether or agreement or statement?	ne or more year classes may be stocked onto	sites covered by the Y
23. Does the FMAg/S identify whether br covered by the agreement or statement?	roodstock or potential broodstock are to be ke	ept on any site
Point of Compliance for Farm Manage	ement Agreements Only	
24. Does the farm management agreement parties to the agreement?	ent include arrangements for persons to beco	ome, or cease to be, N/A
Management and operation		
25. Is the fish farm being managed and o	operated in accordance with the agreement o	r statement?
26. What is the version no/date of issue	of the FMAg/S? version 8	

Case No:	2019-0668			Date of visit:	04/11/2019			
Site No:	FS0621	l		Inspector:		l		
Results Summary	Freq.			Da	te of Notifica	tion		
		Database	Insp		Insp	Writing	Insp	2 <sup>nd</sup> Insp
					<del> </del>			
								L
Danart Currentant								
Report Summary	Dete	la a a	and .					
Case Type	Date 40/44/2040	Insp	2 <sup>nd</sup> Insp					
ECI,CNI,SLI,VMD Case completion	18/11/2019 06/01/2019							
Case completion	00/01/2019							
	_	-						
	+	<b>-</b>						
	+	<b>—</b>	<del> </del>					
	1							
	+		<del> </del>					





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 SITE NO FS0621

INSPECTOR

**DATE OF VISIT** 04/11/2019

SITE NAME Loch A Chairn Bhain

**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 <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>





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 SITE NO FS0621

INSPECTOR

**DATE OF VISIT** 04/11/2019

SITE NAME Loch A Chairn Bhain

**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.

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 18<sup>th</sup> 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.



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 <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0670			Date of visit: 06/11/2019
Time spent on site:	h	Main	nspector:
Site No: FS0549 Business No: FB0125	Site Name: Business Name:	Tanera Scottish Sea Farms Lt	d
Case Types: 1 ECI	2 CNI 3 SLI	4 VMD 5	6
Water Temp (°C): 10.8	Thermometer No:	T173	FHI 045 completed
Observations:	Region: HI	Water type: S	CoGP MA M-10
Dead/weak/abnormally behaving Clinical signs of disease observe Gross pathology observed? Diagnostic samples taken?		N If yes, see addition	nal information/clinical score sheet. nal information/clinical score sheet. nal information/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit detai	l 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.

FHI 059, Version 12			Issu	ed by: FHI			Date of issu	e: 08/10/2018
Case No:	2019-0670		Site No:	FS0549				
Date of Visit:		06/11/2019	9		Inspector(s):			]
Registration/Autho	risation Deta	ails						
1. Business/site deta	ails summary	checked by s	site representa	ative?			Υ	1
2. Changes made to	details?						Υ	
Site Details			_			_		
Total No facilities		12	Facilities sto	cked	12	No facilitie	s inspected	12
Species	SAL	WRA						
Age group	2019 S1	Wild						
No Fish	460,000	23,000						
Mean Fish Wt	2kg	Mix						
Next Fallow Date (S	ite)	Sep 2020		Next Input Da	ate (Site)	April 2021		
Pagent (last 4 vdca)	diaaaaa prabl	ama?		N	Any escapes	(since last	vioit\2	N
Recent (last 4 wks) ( If yes, detail:	disease probi	ems:		IN	Any escapes	(Since last	visit) !	IN
Movement Records								
Movement record		r inspection?						
2. Date of last inspe		i inspection:					21/11/2017	
3. Are records comp		ectly entered	?				21/11/2017	Y
4. Are movement re				•				Y
5. Are records comp								Y
6. Are health certific		•		able?				N/A
Transport Records	•							
1. Are any movemen	nts carried ou	t by (or on be	half) of the bu	ısiness (not us	ing a STB)?			N
If yes, is there a sys	tem in place f	or maintenan	ice of transpoi	rtation records	?			
Mortality Records								
1. Mortality records	available for i	nspection?						Y
2. How are mortalities	es disposed o	f?			Other (detail)	)		
If other detail:	Incinerated a							
3. Mortality records	complete and	correctly ent						Y
4.5				0.13%), wk 44	62 (0.03%), W	/k 43 178 (0	).08%), Wk 4	2 150
4. Recent mortality (	•		(0.06%)					
5. Evidence of recer		• •						N
If yes, facility nos/no	mortality per	facility/no sto	ock per facility	/reason:				
6. Any other peaks i	n mortality du	ring period ch	necked?					N
If yes, detail:								
7. Have increased (	unexplained)	mortalities be	en reported to	vet or FHI?				N/A
If yes, detail action:								
8. Have 'mortality ev	ents' been re	ported to FHI	? If no, add M	IRT case and e	enter on morta	lity events s	sheet.	N/A

о.	seul	4_	_£	O.,	 ж	 

If no, detail:

aquaculture animals held on site?

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

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

- 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:

8. Have the biosecurity procedures been adequately implemented on site?

21/11/2017 to 6/11/2019

- 1	11 009, Version 12							155	ueu by. Fri			
	Case no:	2019-06	370	Site No:		FS0549			Date of visit Sampling:	/ 06	/11/2019	06/
	Priority samples:	VI		ВА		PA		MG		н	)	
	Time sampling starts/ends:		0:00		0:00		Inspecto	r:		VMD N	lo.	15
	Environmental conditions:	1	Dry	2	Sunny	3		4		5	]	
	Summary samples	HIST		ВА		MG	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	VI	PA		Total Sa	mples
A	dd Fish/Pools - click											
	Pool/Fish No											
	Fish nos	1	2	3	4	5						-
	Pool Group											
	Species	SAL	SAL	SAL	SAL	SAL						$\overline{}$
	Average weight	2kg	2kg	2kg	2kg	2kg						
	Sex	N/A	N/A	N/A		N/A						
	Water Type	SW	SW	SW	SW	SW						
		년	hd	hd	hd	q						
ails		am	am	Damph	am	am						
Details		٥	٥	ם ו	םי	٥١						
	Stock Origin	och Damph	Loch Damph	Loch	Loch Damph	Loch Damph						
Stock	Facility No	1	1	ı	I	6						
		•	•	_	_	U						

11/2019 Additional Sample Information:											
0 Total Tests assigned 0											

FHI 059, Version 12		Issued by: FHI			Date o	of issue	: 08/10/2018
Case Number:	2019-0670		Site No:	FS0549		Insp:	
Date of Visit	06/11/2019		No of m	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of n	novements on from equivalent MS	0	5	10	14	0
with GB) of susceptible species		novements on from equivalent zone or	0	9	18	26	0
·	Number of sup	ncluding third country pliers	0		10	14	0
Movements off	Frequency of n	•	I 0	3	6	10	10
Movements on	Number of des		0		6	10	3
Exposure via water		Site contact	s 0	1-5	6-10		
Water contacts with other farms (holding species	disinfection or l	,	0				
susceptible to same diseases)	farms upstrean	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		2
	farms upstrean	or in a coastal zone with category III n or within 1 tidal excursion	1	3	6		Ш
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	g plant discharging into adjacent water	0	1	2		0
On farm processing within the rules of the directive	No on farm pro		0				0
	Processing own	n fish (re-cycling risk)	1				
	Processing fish	n from MS of equivalent status	2				
	equivalent stat		4				
	_	n from Category III farm	8				
	Processing fish	n from Category ∨ farm	10				
Disposal of fish and fish by-	Site's own was	te only processed.	0				
products	Common proce	esses with other farms	3				3
	Collection poin	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	unpasteurised feed	0	Ī			0
	Feeding unpas	teurised feed	5				
Biosecurity		Number of site	s 1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		1
	Sites sharing s	taff and equipment	0	1	2		
Disinfection of equipment	Yes		T 0	1			0
between sites, use of footbaths etc	No		1	1			
CoGP/Regulator			_	J			
Practices in accordance	Yes		Το	1			0
with regulator or industry code of practice	No		3				
Platform access to cages	Yes		0	1			0
	No		2				Ш
					Total Rank		19 MEDIUM

Case No:	2019-0670		Site No:	FS0549	
Sea Lice Inspection (S	Seawater Sites Only)				
<ol> <li>Has the site experier</li> </ol>	nced sea lice problems	s in the previous 4 years?			N
2. Is the CoGP Farm M	anagement Area (or e	quivalent) fallowed syncl	nronously on a single ye	ear class basis?	Υ
	mectin benzoate) as	enced in-feed and bath so well as access to suitable d of time?			es, and
4. Is there a signed doo Management Area (or e		ement agreement or state	ement relevant to the si	te and CoGP Farm	Υ
5. Are sea lice count re	cords available for ins	pection? (Legal SSI, CoG	SP Annex 6)		Υ
6. Do records adequate	ely reflect the required	standard specified in the	SSI and the CoGP? (L	egal SSI, CoGP Annex	6) Y
7. Are sea lice ( <i>L. salme</i> records are inspected?	•	low the suggested criteria	for treatment in the Co	oGP during the period to	hat Y
	•	<i>monis</i> ) numbers per fish od that records are inspec		above (prior to w/b 10/6	/19) or N
If yes, have these been	reported to the Fish I	lealth Inspectorate? If no	, FHI see comment.		N/A
9. Is <i>C. elongatus</i> infes	tation at a level which	is considered to cause s	ignificant welfare proble	ems? (CoGP 4.3.81, 5.3	3.50) N
•		stered or other actions ta elongatus is considered to			
11. Has any other actio	n been taken (where a	applicable)?			N/A
•	•	s taken had a significant	impact upon the lice lev	vels recorded?	Y
•		out in cooperation between			N
		where fewer populations			
15. Is there a site speci scenarios during the es	_	ement procedure with way nfestation?	points describing set a	ctions to deal with reco	gnised N
16. Do the sea lice leve	els observed on stocks	reflect sea lice count dat	a? If no please detail re	easons.	Υ
Containment Inspection	on				
•		ge due to predators in the	current or previous pro	oduction cycles?	N
2. Are measures in place	ce to mitigate against	the predation experienced	d on site? (Detail below	)	Y
ADD	Seal pro nets on so	ome pens	MML	Top nets S	eal blinds on sor
If other, detail below:					
ii otiler, detail below.					
3. Have escape incider	nts or events been exp	perienced on or in the vici	nity of the site since the	e last FHI inspection?	N
If Yes proceed with que	·		•	·	
4. Have these been rep		•			
		orthwith (where they exist)			
6. Have these been rep	orted to the SSPO an	d local fisheries trusts for	tnwith (where they exist	t)? (CoGP – 4.4.37, 5.4	.17)
7. Were methods (if any	y) used to recover esc	apees? If yes give detail			
9 If gill note were deale	wood was this satisms	grood with local wild fich :	ntoroete and was name	iceion givon by Coottish	
Ministers? (Legal, CoG	P – 4.4.38, 5.4.18)	greed with local wild fish i	·		
	•	mise the risk of further es	scapes? (Not covered in	n code but could	
be considered under	•				
10. Is the site inspected	d as satisfactory with r	egards to containment? It	f no, please detail reaso	on(s)	Υ

Issued by: FHI

FHI 059, Version 12

Date of issue: 08/10/2018

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0670	Site No: FS0549	
Date of Visit: 06/11/201	19 Inspector:	
Point of Compliance		
1. Is the farm under inspection located	d within a farm management area?	у
If N, no further questions require com	pletion.	
Points of Compliance for Both Farm	m Management Agreements and Statements	
<ul><li>3. Is the current FMAg/S available for</li><li>4. Does the FMAg/S identify the relevant</li><li>5. Does the FMAg/S identify the fish face</li></ul>	ant farm management area? farm site(s) to which it applies? of commencement of the agreement or statement of review?	Y Y Y
8. Does the FMAg/S identify the minin farm? 9. Does the FMAg/S identify the vacci 10. Does the FMAg/S identify the special. Does the FMAg/S identify the maxindividual farm?	mum health standards for the stocks to be introduction requirements for stocks held in the area of the stocks of fish which may be stocked into the area of the stocking density of any pen on any farm in the angements for the storage and disposal of any design angements.	or farm? Y or farm? Y n the area or the
Arrangements for The Management		
13. Does the FMAg/S identify arrange	ements for the sharing of data on sea lice numbe	rs and treatments?
14. Does the FMAg/S identify the avail of statement?	ilability and the use of medicines on farms cover	
lice on farms in the area or individual 16. Does the FMAg/S identify the circu	umstances under which biological controls and c	
used on farms in the area or individua 17. Does the FMAg/S identify the arra	al farms? angements for synchronous treatments on farms	
Live Fish Movements		
area or farm?	umstances when live fish may be introduced or rangements for the movement of live fish on and c	

FHI 059, Version 12	Issued by: FHI	Date of Issue: 08/10/20
Harvesting		
20. Does the FMAg/S identify acceptab	ole harvest practices on farms in the area or indi	vidual farms?
Fallowing		
21. Does the FMAg/S identify the dates date when a farm or area may be resto	s by which the area or individual farm will be fallo	ow and the earliest Y
22. Does the FMAg/S identify whether agreement or statement?	one or more year classes may be stocked onto	sites covered by the Y
23. Does the FMAg/S identify whether I covered by the agreement or statement	broodstock or potential broodstock are to be kept?	pt on any site
Point of Compliance for Farm Manag	gement Agreements Only	
24. Does the farm management agreer parties to the agreement?	ment include arrangements for persons to becor	me, or cease to be, N/A
Management and operation		
25. Is the fish farm being managed and	d operated in accordance with the agreement or	statement?
26. What is the version no/date of issue	e of the FMAg/S? 14/08/2019	

Case No:	2019-0670			Date of visit:	06/11/2019			
Site No:	FS0549	1		Inspector:		1		
Results Summary	Freq.			Dat	te of Notificat			
•		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
Report Summary								
Case Type	Date	Insp	2 <sup>nd</sup> Insp					
ECI, CNI,SLI,VMD	19/11/2019							
Case completion report	15/01/2020							





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

## 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: 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 <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>





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.

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 19<sup>th</sup> 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.



Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

Date: 19/11/2019

FHI 059, Version 12		Issued by: FHI		Date of is	ssue: 08/10/2018
Case No: 2019-0672				Date of visit:	4/11/2019
Time spent on site:	hrs		Main Inspector	: =	
Site No: FS0212 Business No: FB0119	Site Name: Business Name:	Invasion Bay Mowi Scotland I	_td		
Case Types: 1 ECI	2 CNI 3 SLI	4 VMD	5 DIA	6	
Water Temp (°C): 11.4	Thermometer No:	T152	_	FHI 045 complet	ted N
Observations:	Region: HI	Water type:	: S	CoGP MA	M-34
Dead/weak/abnormally behaving Clinical signs of disease observe Gross pathology observed? Diagnostic samples taken?	•	Y If yes, see a	additional inforn	nation/clinical sco nation/clinical sco nation/clinical sco	ore sheet.
UNI/REG only - if unable to carry	out intended visit deta	il 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 under supervision.

FHI 059, Version 12			Issu	ed by: FHI			Date of issu	e: 08/10/2018
Case No:	2019-0672		Site No:	FS0212				
Date of Visit:		14/11/2019	9		Inspector(s)			]
Registration/Autho 1. Business/site deta 2. Changes made to	ails summary		site representa	ative?			Y Y	}
Site Details								
Total No facilities		18	Facilities sto	cked	11	No facilities	s 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 (S	ite)	August 2020	0	Next Input Da	te (Site)	October 20	)20	
Recent (last 4 wks)	disease prob	lems?		Y	Any escapes	s (since last v	visit)?	N
If yes, detail:		AGD and PGI	)		,,	(2007)	,	
Movement Records	5							
1. Movement record	s available fo	r inspection?	•					Y
2. Date of last inspe-							24/04/2018	
3. Are records comp		ectly entered	?					Y
4. Are movement re								Y
5. Are records comp	lete and corr	ectly entered	?					Y
6. Are health certific	ates for intro	ductions (out	with GB) availa	able?				N
Transport Records								
1. Are any movemen		t by (or on be	ehalf) of the bu	siness (not usi	ng a STB)?			N
If yes, is there a syst			•	•	_			
Mortality Records								
1. Mortality records a	available for i	nspection?						Y
2. How are mortalities	es disposed o	f?			Whole fish -	Dundas Che	emicals	
				ion by Billy Bov	vie and taker	to Dundas.		
3. Mortality records	complete and	correctly en						Y
4. Recent mortality (	last 4 wks)·		Wk46: 456 ( 2,494 (0.45%	0.11%), Wk45: %)	1,839 (0.429	%), Wk44: 1,	775 (0.35%),	Wk43:
5. Evidence of recer	•	atypical morta	, ,	<u> </u>				N
If yes, facility nos/no		••		/reason:				
6. Any other peaks in								Y
If yes, detail:			ydrogen perox					
7. Have increased (u	unexplained)	mortalities be	een reported to	vet or FHI?				N/A
If yes, detail action:		L	10.16	DT		Pr.		
8 Have 'mortality ev	ents been re	neet	Y					

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
1. Recent treatments (last 4 wks)?		Y
If yes, detail: T.M.:	S	
If other, detail:		
2. Medicines records available for inspe	ection?	Y
3. Are records complete and correctly e	entered?	Y
4. Are fish in a withdrawal period?		Y
5. If yes, what treatment(s)?	T.M.S., Salmosan	
If other, detail:		
6. Are medicines stored appropriately?		Y
Biosecurity Records		
1. Biosecurity records available for insp	ection?	Y
2. Has the manner and frequency of mo	ortality removal, recording and safe disposal been	considered?
3. Has the manner and period in which	the APB will notify Scottish Ministers or veterinary	professional of any
increased (unexplained) mortality at th	•	Y
	be event that the presence or suspicion of the presence when that will be notified to Scottish Ministers?	ence of a listed disease Y

5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher

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

8. Have the biosecurity procedures been adequately implemented on site?

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

health status, certification if required)?

aquaculture animals held on site?

2. If yes, are results available for inspection?

**Results of Surveillance** 

If no, detail:

- 11	11 059, VEISION 12							153	sueu by.	1 1 11			
	Case no:	2019-06	572	Site No:		FS0212			Date of Samplin		14/1	11/2019	14/
	Priority samples:	VI		ВА		PA		MG		g. HI			
	Time sampling starts/ends:		5:00		0:00		Inspecto	or:			VMD No	). [	22
	Environmental conditions:	1	Indoors	2		3		4		5			
	Summary samples	HIST	Υ	ВА	Υ	MG	Υ	VI	Υ	PA		Total Sa	mples
A	dd Fish/Pools - click												
	Pool/Fish No	F1	F2	F3	F4	F5	P1						
	Fish nos	1	2	3	4	5	1-5	6	7	8			$\overline{}$
	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			
	Water Type	SW	SW	SW	SW	SW		SW	SW	SW			
		>	>	_	_	_		_	_	_			
ails		Garry	Garry	naı	nal	naı		naı	nal	naı			
Details		9	٦	ıfin	ufin	ıfin		ufin	Jfin	ıfin			
	Stock Origin	Loch	Loch	Glenfinnan	Glenfinnan	Glenfinnan		Glenfinnan	Glenfinnan	Glenfinnan			
Stock	Facility No	1			9	15		11	12	13			
(U)		•	_	•	•	10		•	12	10			

										aca by.				
11/2019 Addition	nal Samı	ple Infor	mation:											
Percus: fish sar	sive blov nple. F5	v. Diagn appear	iostic an ed healt	d VMD : hy.	samples	were ta	iken from	m F5. It	was incl	uded in	the diag	gnostic t	o make	up a 5-
6	Total Te	ests ass	igned	5										

FHI 059, Version 12 Issued by: FHI Date of issue: 08/10/2018 Method of killing: Percussive Case no: 2019-0672 FS0212 Site No: Inspector(s): Sheet Relevant: Y Date of visit: 14/11/2019 S for strong presence: M for medium presence: W for weak presence F3 F4 Fish Number Time sampled after death (if > 45 minutes) External Signs Behaviour Moribund Lethargic M М Hanging vertical Spiralling Flashing Loss of equilibrium Body Dark Distended abdomen Scale Oedema Opercula Shortened Flared Haemorrhaging Throat M М Ventrum М Base of fins Elsewhere Eyes Exophthalmic Enophthalmic (sunken) Cataract Haemorrhagic Gills M Pale W Zoned Necrotic Lesions Flank Elsewhere Vent Inflamed Trailing faeces 30 16 Lice Load Estimate numbers Internal Signs Ascites Clear W M Bloody M Oedema In tissues М М Heart Pale/anaemic Granulomas Deformed Liver Petechial haem Gross haem Tissue breakdown Enlarged Colour number(s) Granulomas Lesions Pyloric caeca Petechial haem Tubules mauve Lack of fat Spleen Enlarged Granulomas Gut No food present Yellow pseudo-faeces External haem Internal haem Body wall Haemorrhaging W Swim bladder Haemorrhaging W Fluid filled Kidney Swollen Grey Granular Liquefied

Parasites present

Anaemia

General

Case no: 2019-0672

Date of visit: 14/11/2019

Date of visit.	14/11/201	_					
<b>S</b> for strong prese	nce: M for medium presence: W fo	ΓV					
Fish Number							
	ter death (if > 45 minutes)						
External Signs	•						
Behaviour	Moribund						
	Lethargic						
	Hanging vertical						
	Spiralling						
	Flashing						
	Loss of equilibrium						
Body	Dark						
	Distended abdomen						
	Anorexic						
	Scale Oedema						
Opercula	Shortened						
	Flared						
Haemorrhaging	Throat						
	Ventrum						
	Base of fins						
	Elsewhere						
Eyes	Exophthalmic						
	Enophthalmic (sunken)						
	Cataract						
	Haemorrhagic						
Gills	Pale						
	Zoned						
	Necrotic						
Lesions	Flank						
	Elsewhere						
Vent	Inflamed						
	Trailing faeces						
Lice Load	Estimate numbers						
Internal Signs							
Ascites	Clear						
	Bloody						
Oedema	In tissues						
Heart	Pale/anaemic						
	Granulomas						
	Deformed						
Liver	Petechial haem						
	Gross haem						
	Tissue breakdown						
	Enlarged						<u> </u>
	Colour number(s)						
	Granulomas						
	Lesions						
Pyloric caeca	Petechial haem						
	Tubules mauve						
	Lack of fat						
Spleen	Enlarged						
	Granulomas						_
Gut	No food present						
	Yellow pseudo-faeces						
	External haem						
	Internal haem						
Body wall	Haemorrhaging						
Swim bladder	Haemorrhaging						
	Fluid filled						
Kidney	Swollen						
	Grey						
	Granular						
	Liquefied						
General	Liquefied Parasites present Anaemia						

FHI 059, Version 12		Issued by: FH				Date o	of issue	: 08/10/2018
Case Number:	2019-0672			Site No:	FS0212		Insp:	
Date of Visit	14/11/2019			No of mo	ovements/s	supp./dest.		Score
Live fish movements				0	1-5	6-10	>10	
Movements on (from out	Frequency of n	novements on from equivalent MS	3	0	5	10	14	5
with GB) of susceptible species		novements on from equivalent zo ncluding third country	ne or	0	9	18	26	0
	Number of sup			0		10	14	5
Movements off	Frequency of n	novements off		0	3	6	10	10
	Number of des			0		6	10	3
Exposure via water		Site co	ntacts	0	1-5	6-10		
Water contacts with other farms (holding species	disinfection or l	*		0				
susceptible to same diseases)	farms upstrean	or in a coastal zone with categor n or within 1 tidal excursion		1	2	4		1
	farms upstrean	or in a coastal zone with categor n or within 1 tidal excursion		1	3	6		ш
		or in a coastal zone with categor n or within 1 tidal excursion	y V	1	4	8		ш
Management practices				None	Secure	Unsecure		
Water contacts with processors	Any processing	g plant discharging into adjacent v	vaters	0	1	2		1
On farm processing within the rules of the directive	No on farm pro	cessing		0				
	Processing own fish (re-cycling risk)							1
	Processing fish from MS of equivalent status							
	Processing fish from zone or compartment of equivalent status			4				
	Processing fish	from Category III farm		8				
	Processing fish	n from Category ∨ farm		10				
Disposal of fish and fish by-	Site's own was	te only processed.		0	1			0
products	Common proce	esses with other farms		3				ш
	Collection poin	t for waste from other farms		5				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed		0	i			0
	Feeding unpas	teurised 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 s	taff and equipment		0	1	2		1
Disinfection of equipment	Yes			0	1			0
between sites, use of footbaths etc	No			1				ш
CoGP/Regulator								
Practices in accordance	Yes			0				0
with regulator or industry code of practice	No			3				
Platform access to cages	Yes			0	]			0
	No			2				ш
						Total Rank		27
						· torint		

Case No:	2019-0672		Si	ite No:	FS0212		
Sea Lice Inspection (	• •	s in the previous 4 years	s?				N
•	•	equivalent) fallowed syn		a single ye	ear class basis?		Υ
3. Does the site have a	access to a range of lic amectin benzoate) as	enced in-feed and bath well as access to suitab	sea lice medica	ations (inc	cluding deltamethrin,	ures, and	Υ
4. Is there a signed doo Management Area (or	_	ement agreement or sta	atement relevan	t to the si	te and CoGP Farm		Υ
5. Are sea lice count re	ecords available for ins	spection? (Legal SSI, Co	GP Annex 6)				Υ
6. Do records adequate	ely reflect the required	standard specified in th	e SSI and the C	CoGP? (Le	egal SSI, CoGP Anne	ex 6)	Υ
7. Are sea lice ( <i>L. salm</i> records are inspected?	•	low the suggested criter	ria for treatment	in the Co	oGP during the period	I that	Υ
_		<i>monis</i> ) numbers per fisl od that records are insp		of 3 or a	above (prior to w/b 10	/6/19) or	N
If yes, have these beer	reported to the Fish I	Health Inspectorate? If n	no, FHI see com	ment.			N/A
9. Is C. elongatus infe	station at a level which	is considered to cause	significant welfa	are proble	ems? (CoGP 4.3.81,	5.3.50)	N
		istered or other actions in elongatus is considered					Υ
11. Has any other actio	on been taken (where	applicable)?					Υ
12. Have therapeutic tr	eatments or the action	ns taken had a significar	nt impact upon t	he lice le	vels recorded?		Υ
13. Are treatments, wh	ere conducted, carried	d out in cooperation betw	veen participatir	ng farms?	•		Υ
		where fewer population		_		nt for	Υ
15. Is there a site spec scenarios during the es		ement procedure with wiinfestation?	aypoints describ	oing set a	ctions to deal with re-	cognised	Y
16. Do the sea lice leve	els observed on stocks	s reflect sea lice count d	ata? If no pleas	e detail re	easons.		Υ
Containment Inspecti	ion						
1. Has the site experien	nced equipment dama	ge due to predators in the	he current or pre	evious pro	oduction cycles?		N
2. Are measures in pla	ce to mitigate against	the predation experience	ed on site? (Det	tail below	)		Υ
Tension nets, top ne	ts, ADDs, MML						
If other, detail below:							
3 Have escape incide	nts or events been ex	perienced on or in the vi	icinity of the site	since the	a last FHI inspection?		N
If Yes proceed with que			caracty of the sac	Silice the	c last i il ilispection:		
4. Have these been rep		•					
5. Have these been rep	ported to local DSFB f	orthwith (where they exis	st)? (CoGP – 4.	.4.37, 5.4	.17)		
6. Have these been rep	ported to the SSPO an	d local fisheries trusts fo	orthwith (where	they exist	t)? (CoGP – 4.4.37, 5	.4.17)	
7. Were methods (if an	y) used to recover esc	capees? If yes give deta	il				
8 If all nots were deal	oved was this action a	greed with local wild fish	n interests and v	vas nermi	ission given by Scotti	sh	
Ministers? (Legal, CoG		groca with local wild list	i interests and v	as penn	Joseph Given by Scottl		
9. What action was tak	en to prevent and min	imise the risk of further	escapes? (Not o	covered in	n code but could		
be considered under	r satisfactory measu	res of the Act)					
10. Is the site inspecte	d as satisfactory with i	regards to containment?	If no, please de	etail reaso	on(s)		Υ

Issued by: FHI

FHI 059, Version 12

Date of issue: 08/10/2018

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0672	Site No: FS0212	
Date of Visit: 14/11/20	019 Inspector:	
Point of Compliance		
1. Is the farm under inspection locate	ed within a farm management area?	Y
If N, no further questions require cor	npletion.	
Points of Compliance for Both Fa	rm Management Agreements and Statements	
<ul><li>3. Is the current FMAg/S available for</li><li>4. Does the FMAg/S identify the rele</li><li>5. Does the FMAg/S identify the fish</li></ul>	evant farm management area? farm site(s) to which it applies? e of commencement of the agreement or stateme	Y Y Y
Arrangements for Fish Health Mai	nagement	
8. Does the FMAg/S identify the min farm?	imum health standards for the stocks to be introd	luced to the area or
10. Does the FMAg/S identify the sp	cination requirements for stocks held in the area of eccies of fish which may be stocked into the area of aximum stocking density of any pen on any farm i	or farm?
12. Does the FMAg/S identify the arr fish farm in the area or the individua	rangements for the storage and disposal of any deal farm?	ead fish from any
Arrangements for The Manageme	nt of Sea Lice	
13. Does the FMAg/S identify arrang	gements for the sharing of data on sea lice number	ers and treatments?
14. Does the FMAg/S identify the av of statement?	vailability and the use of medicines on farms cover	red by the agreement
15. Does the FMAg/S identify any relice on farms in the area or individua	equirements for the sensitivity testing of available t	treatments for sea
	cumstances under which biological controls and o	cleaner fish are to be
	rangements for synchronous treatments on farms	within the area?
Live Fish Movements		
area or farm?	rcumstances when live fish may be introduced or i	

FHI 059, Version 12	Issued by: FHI	Date of Issue: 08/10/20
Harvesting		
20. Does the FMAg/S identify acceptab	ole harvest practices on farms in the area or indi	ividual farms?
Fallowing		
21. Does the FMAg/S identify the dates date when a farm or area may be restored	s by which the area or individual farm will be fallocked?	ow and the earliest
22. Does the FMAg/S identify whether of agreement or statement?	one or more year classes may be stocked onto	sites covered by the Y
23. Does the FMAg/S identify whether be covered by the agreement or statement	broodstock or potential broodstock are to be ke t?	pt on any site
Point of Compliance for Farm Manag	gement Agreements Only	
24. Does the farm management agreen parties to the agreement?	ment include arrangements for persons to become	me, or cease to be, N/A
Management and operation		
25. Is the fish farm being managed and	d operated in accordance with the agreement or	statement?
26. What is the version no/date of issue	e of the FMAg/S? 01/11/2018	

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: Results Summary Date of Notification Freq. Database Writing 2<sup>nd</sup> Insp Insp Phone Insp Insp MG\_AGDQ 5/5 19/11/2019 20/11/2019 15/01/2019 MG IHNQ 0/1 15/01/2019 19/11/2019 20/11/2019 MG IPN 0/1 19/11/2019 20/11/2019 15/01/2019 20/11/2019 MG\_ISA 19/11/2019 15/01/2019 0/1 MG PARA THER Q 15/01/2019 5/5 19/11/2019 20/11/2019 MG\_SAL\_POX 4/5 15/01/2019 19/11/2019 20/11/2019 15/01/2019 1/1 19/11/2019 MG\_SAV 20/11/2019 0/1 15/01/2019 MG VHS 19/11/2019 20/11/2019 BACT PASS 2/5 04/12/2019 06/01/2020 15/01/2019 HIST\_AMGD 3/5 15/01/2019 06/01/2020 06/01/2020 15/01/2019 HIST GPAT 4/5 06/01/2020 06/01/2020 HIST PPAT 1/5 15/01/2019 06/01/2020 06/01/2020 HIST\_PASS 15/01/2019 2/5 06/01/2020 06/01/2020 3/5 15/01/2019 HIST\_SPAT 06/01/2020 06/01/2020 HIST HPAT 5/5 06/01/2020 06/01/2020 15/01/2019 2/5 15/01/2019 HIST\_KPAT 06/01/2020 06/01/2020 15/01/2019 HIST\_SALH 1/5 06/01/2020 06/01/2020 Report Summary 2<sup>nd</sup> Insp Date Case Type Insp ECI, CNI, SLI, VMD 19/11/2019 ECI, CNI, SLI, VMD reis 13/01/2019 DIA 13/01/2019





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

# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

Business NoFB0119Date of Visit14/11/2019Site NoFS0212Site NameInvasion BayInspectorCase No20190672

## 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:

<u>Gill:</u> 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.

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

<u>Heart:</u> 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).

<u>Gut and pyloric caeca:</u> 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.

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

<u>Kidney:</u> 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 <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>





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

# FISH HEALTH INSPECTORATE VISIT REPORT

### SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0119
SITE NO FS0212
INSPECTOR

DATE OF VISIT 14/11/2019
SITE NAME Invasion Bay
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:
  - 0 15/10/2017
  - 0 09/11/2017
  - 0 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:

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

Date: 13/01/2020

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0701			Date of visit: 15/11/2019
Time spent on site:		Main Ins	spector:
Site No: FS0253 Business No: FB0125	Site Name: Business Name:	Loch Spelve (B) Scottish Sea Farms Ltd	
Case Types: 1 PSI 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 of Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	If yes, see additiona	I information/clinical score sheet. I information/clinical score sheet. I information/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit deta	ail 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

FHI 059, Version 12		Issued by: FHI			Date o	of issue	: 08/10/2018
Case Number:	2019-0701		Site No:	FS0253		nsp:	
Date of Visit	15/11/2019		No of m	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of m	novements on from equivalent MS	0	5	10	14	0
with GB) of susceptible species		novements on from equivalent zone or	_		40	00	-
species	compartment in Number of sup	ncluding third country	0		18 10	26 14	$\vdash$
			U	5	10		=
Movements off	Frequency of m		0		6	10	10
	Number of des		0		6	10	3
Exposure via water Water contacts with other	Earm is protect	Site contacts ed (secure water supply through	0	1-5	6-10		_
farms (holding species	disinfection or l	porehole)	0				ш
susceptible to same diseases)		or in a coastal zone with category I or within 1 tidal excursion	1	2	4		1
		or in a coastal zone with category III	'		_		H
	farms upstream	or within 1 tidal excursion	1	3	6		ш
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		
	iaims apstream	TOT WILLIAM T HAD EXCUSSION	<u>'</u>	-	8		
Management practices	IA		None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		1
On farm processing within	No on farm pro	cessing	0	1			$\Box$
the rules of the directive	Processing own	n fish (re-cycling risk)	1				1
	Processing fish	from MS of equivalent status	2				-
		from zone or compartment of					ш
	equivalent state	rrom Category III farm	8				-
		from Category V farm	10				-
Disposal of fish and fish by-	Sitolo our wood	to only proceed		] 1			=
products		* *	0				0
		esses with other farms	3				$\vdash$
	Collection poin	t for waste from other farms	5				$\blacksquare$
Use of unpasteurised feeds	No feeding of u	npasteurised feed	0				0
	Feeding unpas	teurised 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 s	taff and equipment	0	1	2		
Disinfection of equipment between sites, use of	Yes		0	]			0
footbaths etc	No		1				
CoGP/Regulator							
Practices in accordance	Yes		0				0
with regulator or industry code of practice	No		3				
Platform access to cages	Yes			1			$\overline{}$
	No		2	1			${f  o}$
	1.10			J			
					Total		16
					Rank		MEDIUM

FHI 059, Versi	on 12			Issued by: F	HI		Date of is:	sue: 08/10/2018
Case No:	2019-0701		Site No:	FS025	3			
Date of case:	15/11/2019		1		Inspector(s):		1	
Business/site	contacts correct	? (if no updat	te site summ	nary sheet)			Y	
Site Details	•	^	<b>1</b> N1 - 6 - 2000	-4		7		
Total No facilit Species	iles	U	No facilities	stocked	0			
Age group				+	+	1		
No Fish	_							
Mean Fish Wt								
Next Fallow Da	ate (Site)	fallow		Next Input	Date (Site)	June 2020		
Date of last ins	spection: (ECI o	r PSI)	15/08/2019	<u> </u>				
Any recent inc	reased or atypic	al mortalities	? (last 4 wee	eks).			N	
If yes, detail:	7		,	,				
e.g. site								
average, max per cage								
Any increased	mortalities? (sir	nce last insne	ection )				Y	
If yes, detail:	see additional		<i>y</i>					
							Incinerated -	
How are morta	alities disposed	of?					on site	
If other detail:								
Any treatment	s? (since last in	enection)					N/A	
If yes, detail:	s: (since last in	Speciion)		7		1	197	
Other:								
Any disease o	n site? (since la	et inenection	١				Y	
If yes, detail:		3t mapeonom	/					
		P.						
of, the busines	al health surveill	ance or diagi	nostic invest	igations beer	n carried out by,	or on behalf	Y	
Any significant							Y	
If yes, detail	CGD						•	
le there a histo	ory of sea lice is:	cues at the s	ite in previou	is A vears			Y	
If yes, detail:	see case 2018		ite in previou	is 4 years				
							V	
If no, detail:	able to keep lice	e leveis belov	v tne recomr	menaea iice i	eveis?		'	
ii iio, detaii.								
	charge for sea li			_			Y	
If yes, detail:	Slice		H2O2	_	Alphamax	J	Salmosan	
Where sea lice	e treatments hav	ve been admi	inistered hav	e they had a	n effect?		Y	
If no, detail:								
Is a managem	ent area agreer	nent in place	?				Y	
Does your Co	GP Farm manag	gement area	fallow in syn	chrony?			Y	
Any reported e	escapes? (check	prior to pho	ne call)				N	
	(since last insp						N	
If yes, detail:								
(include date)								

FHI 059, Version 12 Issued by: FHI Date of issue: 08/10/2018

Any significant changes to your biosecurity procedures since previous visit?

Y

Sister site Spelve A has been inactivated.

Case No:	2019-0701			Date of visit:	15/11/2019			
Site No:	FS0253			Inspector:				
Results Summary	Freq.			Da	te of Notificat			
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
Report Summary								
Case Type	Date	Insp	2 <sup>nd</sup> Insp					
PSI	16/01/2020							





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 SITE NO FS0253 INSPECTOR DATE OF CASE 15/11/2019
SITE NAME Loch Spelve (B)
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 <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0702			Date of visit: 13/11/2019
Time spent on site:	l hour	Main I	Inspector:
Site No: SS0925 Business No: SB0551	Site Name: Business Name:	Loch Craignish Native Loch Craignish Native	•
Case Types: 1 STS	2 3	4 5	6
Water Temp (°C): 8.2	Thermometer No:	T155	FHI 045 completed
Observations:	Region: ST	Water type: S	CoGP MA
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?		N If yes, see addition	nal information/clinical score sheet. nal information/clinical score sheet. nal information/clinical score sheet.
UNI/REG only - if unable to carr	y out intended visit detai	I 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.

FHI 059, Version 12	Issu	ed by: FHI	Date of issue: 08/10/2018
Case No: 201	19-0702 Site No:	SS0925	
Date of Visit:	13/11/2019	Inspector(s):	
Registration/Authorisa  1. Business/site details s  2. Changes made to det	summary checked by site representa	ative?	N N
No Fish 170	ked	cked 1	No facilities inspected 1
Mean Fish Wt Next Fallow Date (Site)	not known	Next Input Date (Site)	not known
Recent (last 4 wks) dise If yes, detail:	ase problems?	N Any escapes	(since last visit)?
5. Are records complete	n: and correctly entered? Is available for dead fish and waste?		N/A n/a N/A N/A N/A
-	carried out by (or on behalf) of the buin place for maintenance of transpor		
Mortality Records  1. Mortality records avail  2. How are mortalities di	•		N/A
If other detail: 3. Mortality records com 4. Recent mortality (last	plete and correctly entered? 4 wks):		N/A
	creased/atypical mortalities? rtality per facility/no stock per facility/	/reason:	N/A
6. Any other peaks in mo If yes, detail:	ortality during period checked?		N/A
7. Have increased (unex If yes, detail action:	(plained) mortalities been reported to s' been reported to FHI? If no, add M		N/A N/A N/A

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
1. Recent treatments (last 4 wks)?  If yes, detail:  If other, detail:  2. Medicines records available for ins 3. Are records complete and correctly 4. Are fish in a withdrawal period? 5. If yes, what treatment(s)?  If other, detail:	•	
6. Are medicines stored appropriately	?	
<ul><li>3. Has the manner and period in which increased (unexplained) mortality at</li><li>4. Has the action that will be taken in is detected been included and how a</li></ul>	mortality removal, recording and safe disposal been the APB will notify Scottish Ministers or veterinathe site been included?  the event that the presence or suspicion of the presend when that will be notified to Scottish Ministers? The animals being stocked on the farm site been contained.	esence of a listed disease ?
transmission of disease been covered 7. Is documentation available regardinaquaculture animals held on site?	ty measures implemented between each epidemic d (movement of staff, visitors, equipment, live or d ing the measures in place to maintain the physical een adequately implemented on site?	lead fish etc.)?
Results of Surveillance		
1. Has any animal health surveillance	e been carried out by, or on behalf of, the business	s? N/A

2. If yes, are results available for inspection?

If yes, detail (if not detailed under recent disease problems).

Records checked between:

3. Any significant results?

n/a

٠.	11 055, Version 12			_				153	ucu by.				
	Case no:	2019-07	702	Site No:		SS0925			Date of		13/	11/2019	14/
	Priority samples:	VI		ВА		PA		MG	Samplin	ig. HI		l	
	Time sampling starts/ends:		0:00		5:00		Inspecto	or:			VMD N	o.	0
	Environmental conditions:	1	Indoors	2		3		4		5			
	Summary samples	HIST		ВА		MG	Υ	VI		PA		Total Sa	amples
A	dd 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
	Water Type	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
		ဖွာ	ဖွ	ဟွ	ဖွ	ဖွာ	တွ	ဟ	ဖွ	ဖွာ	ဖွ	ဖွာ	ဟ
		ter	ter	ter	ter	ster	Oysters	ter	ter	ster	ter	ter	ter
,,		Š	Š	) Sy	) Sy	) Sy	Jys	) Sy	) Sy	) Sy	Š	Š	Š
ails				=	=	=	0	=	=	=			=
Details	il	Jue	Jue	nne	nne	nne	nne	Jue	nne	nne	Jue	nne	auc
OCK	•	Lochnell Oysters	Lochnell	Lochnell Oysters									
Stoc	Facility No					7		7		7		7	
	,												

# 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
OFD	OFB	OED	OFD	OED	OFD	OED	OFD	OFD	OED	OED	OFB	OED	OED	OFD	OFD
OED															
N/A															
SW															
Lochnell Oysters															

Case No:	2019-0702			Date of visit:	13/11/2019			
Site No:	SS0925	1		Inspector:	DJM	l		
Results Summary	Freq.			Da	te of Notifica	tion		
,		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
MG_BON	0/150	19/11/2019		25/11/2019		09/01/2020		
Hist_BON	0/150	19/12/2019		19/12/2019		09/01/2020		
Report Summary	1		ı	1				
Report Summary Case Type	Date	Insp	2 <sup>nd</sup> Insp	1				
STS	06/01/2020		2 11130	1				
				1				
				1				
				1				
				1				
	i							





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 Craign

SITE No SS0925 SITE NAME Loch Craignish Oyster Restoration

INSPECTOR 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.

## <u>Histology</u>

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.

### <u>Differential Diagnosis</u>

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:

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

Date: 06/01/2020

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0710			Date of visit: 25/11/2019
Time spent on site:	2 Hours	Main I	Inspector:
Site No: FS0473 Business No: FB0357	Site Name: Business Name:	Niall Bromage Freshwa University of Stirling	ater Field Station
Case Types: 1 VMD	23	4 5	6
Water Temp (°C):	Thermometer No:		FHI 045 completed
Observations:	Region: CE	Water type: F	CoGP MA
Dead/weak/abnormally behavin Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?	-	N If yes, see addition	nal information/clinical score sheet. nal information/clinical score sheet. nal information/clinical score sheet.
UNI/REG only - if unable to carr	ry out intended visit deta	ail reason below:	

## **Additional Case Information:**

No issues on site, fish sampled for VMD appeared healthy

FHI 059, Version 12			Issu	ued by: FHI			Date of issu	ue: 08/10/2018
Case No:	2019-0710		Site No:	FS0473	<i>i</i>			
Date of Visit:		25/11/201	9		Inspector(s):			]
Registration/Autho	risation Det	ails						
1. Business/site deta	•	checked by	site representa	ative?			Y	
2. Changes made to	details?						N	]
Site Details								
Total No facilities		69	Facilities sto	ocked	39	No facilitie	es inspected	69
Species	SAL	RTR						
Age group	2019	OVA						
No Fish	38,526	7,034						
Mean Fish Wt	50g	n/a						
Next Fallow Date (S	ite)	No plans		Next Input Da	ate (Site)	Feb 2020		
					1			
Recent (last 4 wks)	disease probl	ems?		N	Any escapes	(since last	visit)?	N
If yes, detail:								
Movement Records	5							
1. Movement record	s available fo	r inspection?	?					Y
2. Date of last inspe							16/03/2019	
3. Are records comp		ectly entered	!?					Y
4. Are movement re				?				Y
5. Are records comp		•						Y
6. Are health certific	ates for introd	ductions (out	with GB) availa	able?				Y
Transport Records								
1. Are any movemen	nts carried ou	t by (or on b	ehalf) of the bu	usiness (not us	ing a STB)?			
If yes, is there a syst	tem in place f	ior maintena	nce of transpo	rtation records	?			
Mortality Records								
1. Mortality records a	available for i	nspection?						Y
2. How are mortalitie	es disposed o	f?			Other (detail)	)		
If other detail:	Incinerated of							
3. Mortality records	•	correctly en	tered?					Y
4. Recent mortality (	last 4 wks):		42 fish acros	ss the site in 4	weeks			
5. Evidence of recer	it increased/a	typical morta	alities?					N
If yes, facility nos/no	mortality per	facility/no st	lock per facility	//reason:				
O A throw more in	talib.d.	·	1 1 10					N
6. Any other peaks in If yes, detail:	n mortality du	ring period d	:пескеа?					N
7. Have increased (u	inexplained)	mortalities b	een reported to	o vet or FHI?				N/A
If yes, detail action:	Педри		001110	775.5.				
8. Have 'mortality ev	ents' been re	ported to FF	II? If no, add N	IRT case and e	enter on morta	ality events :	sheet.	N/A

EULOFO Version 12		leaved by EUI	Data of incu	e: 08/10/2018
FHI 059, Version 12		Issued by: FHI	Date of issue	e. 06/10/2016
1. Recent treatments	(last 4 wks)?			Y
If yes, detail:	T.M.S.			
If other, detail:				
2. Medicines records	available for inspection?			Y
3. Are records compl	ete and correctly entered?			Y
4. Are fish in a withdr	awal period?			Y
5. If yes, what treatm	ent(s)?	T.M.S.		
If other, detail:				
6. Are medicines stor	ed appropriately?			Y
Biosecurity Record	s			
_	s available for inspection?			
•	nd frequency of mortality removal	l. recording and safe dispos	al been considered?	
	nd period in which the APB will no			
	ed) mortality at the site been incl	•	ionnally professional or any	
(	,			
4. Has the action tha	t will be taken in the event that the	e presence or suspicion of t	he presence of a listed disease	
	uded and how and when that will	•	•	
5. Has the health sta	tus of aquaculture animals being	stocked on the farm site be	en covered (equal or higher	
health status, certific			, ,	

Results of Surveillance

If no, detail:

aquaculture animals held on site?

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

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

- 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:

8. Have the biosecurity procedures been adequately implemented on site?

16/03/2019 - 25/11/2019

Case no:   2019-0710   Site No:   FS0473   Date of visit/   25/11/2019   25   Sampling:   NG		111 059, VEISIOII 12							153	ded by. I				
Priority samples:   VI		Case no:	2019-07	710	Site No:		FS0473					25/	11/2019	25/
Summary samples HIST BA MG VI PA Total Samples  Add Fish/Pools - click  Pool/Fish No Fish nos 1-6 7-10 Pool Group Species SAL SAL Average weight 50g 50g Sex N/A N/A Water Type FW		Priority samples:	VI		ВА		PA		MG					
Summary samples			10:0	00:00	11:0	0:00		Inspecto	or:			VMD No	o.	3
Add Fish/Pools - click    Pool/Fish No		Environmental conditions:	1	Indoors	2		3		4		5			
Pool/Fish No		Summary samples	HIST		ВА		MG		VI	F	PA		Total Sa	mples
Fish nos	Δ													
Pool Group Species SAL SAL Average weight Sog 50g Sex N/A N/A Water Type FW FW  Signature FW FW  FW  FW  FW  FW  FW  FW  FW  FW		Pool/Fish No												
Species SAL SAL Average weight 50g 50g Sex N/A N/A Water Type FW FW		Fish nos	1-6	7-10										
Average weight 50g 50g Sex N/A N/A Water Type FW FW		Pool Group												
Average weight 50g 50g	Г	Species	SAL	SAL										
Sex N/A N/A Water Type FW FW			50g	50g										
ch ailort		Sex												
ch ailort		Water Type	FW	FW										
			_											

11/2019 Additional Sample Information:															
0	0 Total Tests assigned 0														

Site No: FS0473

Case No: 2019-0710

Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology

Case No:	2019-0710			Date of visit:	25/11/2019							
Site No:	FS0473	l		Inspector:								
Results Summary	Freq.	Date of Notification										
	·	Database	Insp		Insp	Writing	Insp	2 <sup>nd</sup> Insp				
	1											
Report Summary												
Case Type	Date	Insp	2 <sup>nd</sup> Insp									
VMD	13/12/2019											
	ļ											





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.



Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

Date: 13/12/2019

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0712			Date of visit: 26/11/2019
Time spent on site:		Main Inspecto	pr:
Site No: FS0398 Business No: FB0444	Site Name: Business Name:	Clachan Hatchery Hebridean Smolts Ltd	
Case Types: 1 VMD 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 of Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	n If yes, see additional infor	rmation/clinical score sheet. rmation/clinical score sheet. rmation/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit deta	nil reason below:	

# **Additional Case Information:**

Some movement record entries not maintained correctly.

FHI 059, Version 12 Issued by: FHI Date	of issue: 08/10/2018
Case No: 2019-0712 Site No: FS0398	
Date of Visit: 26/11/2019 Inspector(s):	
Registration/Authorisation Details  1. Business/site details summary checked by site representative?  2. Changes made to details?	
Site Details	_
Total No facilities 12 Facilities stocked 10 No facilities insp	pected 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)?  If yes, detail:	N
Movement Records	
Movement records available for inspection?	2/2018
<ul><li>2. Date of last inspection:</li><li>3. Are records complete and correctly entered?</li></ul>	2/2016 N
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	
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	
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:	
6. Any other peaks in mortality during period checked?	N
If yes, detail:  7. Have increased (unexplained) mortalities been reported to vet or FHI?	N/A
If yes, detail action:	IN//
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.	N/A

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
1. Recent treatments (last 4 wks)?  If yes, detail:		N
If other, detail:  2. Medicines records available for inspection	n?	Y
Are records complete and correctly entere		Y
4. Are fish in a withdrawal period?		N
5. If yes, what treatment(s)?		
If other, detail:		
6. Are medicines stored appropriately?		Y
Biosecurity Records		
Biosecurity records available for inspection		
2. Has the manner and frequency of mortalit	•	
<ol><li>Has the manner and period in which the A increased (unexplained) mortality at the site</li></ol>	•	ry professional of any
moreaged (arroxplamou) mortality at the old	been moided.	
4. Has the action that will be taken in the even is detected been included and how and whe	·	
5. Has the health status of aquaculture anim health status, certification if required)?	nals being stocked on the farm site been cov	vered (equal or higher
6. Have the husbandry and biosecurity meastransmission of disease been covered (mov	•	
7. Is documentation available regarding the aquaculture animals held on site?		
8. Have the biosecurity procedures been ad	equately 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	?

7/12/2018 to 26/11/2019

2. If yes, are results available for inspection?

If yes, detail (if not detailed under recent disease problems).

Records checked between:

3. Any significant results?

11 059, Version 12							155	_				
Case no:	2019-0	712	Site No:		FS0398			Date of v		26/	11/2019	
Priority samples:	VI		ВА		PA		MG		g. HI		]	
Time sampling starts/ends:	12:0	00:00	13:0	0:00	]	Inspecto	r:			VMD N	o. <b> </b>	ŕ
Environmental condition	ons: 1	Indoors	2		3		4		5	5	]	
Summary samples	HIST		ВА		MG		VI		PA		Total Sa	ample
Pool/Fish No	1.6	7 14	15.24	25.20	21.40							
Pool/Fish No Fish nos	1-6	7-14	15-24	25-30	31-40							
Pool/Fish No Fish nos Pool Group												
Pool/Fish No Fish nos Pool Group Species	SAL	SAL	SAL	SAL	SAL							
Pool/Fish No Fish nos Pool Group Species Average weight												
Pool/Fish No Fish nos Pool Group Species Average weight Sex	SAL 100g	SAL 70g	SAL 70g	SAL 100g	SAL 60g							
Pool/Fish No Fish nos Pool Group Species Average weight	SAL	SAL	SAL	SAL	SAL							
Pool/Fish No Fish nos Pool Group Species Average weight Sex	SAL 100g	SAL 70g	SAL 70g	SAL 100g	SAL 60g							
Pool/Fish No Fish nos Pool Group Species Average weight Sex	SAL 100g FW	SAL 70g	SAL 70g FW	SAL 100g FW	SAL 60g FW							
Pool/Fish No Fish nos Pool Group Species Average weight Sex	SAL 100g FW	SAL 70g	SAL 70g FW	SAL 100g FW	SAL 60g FW							
Pool/Fish No Fish nos Pool Group Species Average weight Sex Water Type	SAL 100g FW	SAL 70g	SAL 70g FW	SAL 100g FW	SAL 60g FW							
Pool/Fish No Fish nos Pool Group Species Average weight Sex Water Type	SAL 100g FW	SAL 70g FW	SAL 70g FW	SAL 100g FW	SAL 60g FW							
Pool/Fish No Fish nos Pool Group Species Average weight Sex Water Type	SAL 100g FW	SAL 70g FW	SAL 70g FW	SAL 100g FW	SAL 60g FW							
Pool/Fish No Fish nos Pool Group Species Average weight Sex Water Type	SAL 100g	SAL 70g FW	SAL 70g FW	SAL 100g FW	SAL 60g							

	Addition	nal Sam	ple Infor	mation:							
0	l	Total To	ests ass	igned	0	l					

Case No:	2019-0712			Date of visit:	26/11/2019			
Site No:	FS0398			Inspector:		1		
Results Summary	I Eroa			Do	to of Notificat	tion		
Results Summary	Freq.	Database	Insp	Phone	te of Notificat Insp	Writing	Insp	2 <sup>nd</sup> Insp
						<b>J</b>		2 11130
	•							
Report Summary				1				
Case Type VMD case completion report	Date	Insp	2 <sup>nd</sup> Insp	1				
VMD	02/12/2019			1				
case completion report	04/02/2019			1				
				1				
				1				





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 SITE NO FS0398

INSPECTOR

DATE OF VISIT
SITE NAME

26/11/2019

Clachan Hatchery

**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:
  - o 15/9/19 (194994 smolts)
  - o 16/10/19 (173350 smolts)
  - o 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.
  - o 11/4/19 (210598 smolts)
  - o 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: Date: 02/12/2019
Fish Health Inspector





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: Date: 04/02/2020
Fish Health Inspector

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0713			Date of visit: 26/11/2019
Time spent on site: 4	1	Main Insp	pector:
Site No: FS1280 Business No: FB0398	Site Name: Business Name:	Loch Carnan Loch Duart Ltd	
Case Types: 1 ECI 2	2 CNI 3 SLI	4 VMD 5	6
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	•		information/clinical score sheet.
Clinical signs of disease observed Gross pathology observed?	1 <i>f</i>		information/clinical score sheet. information/clinical score sheet.
Diagnostic samples taken?		n	
UNI/REG only - if unable to carry	out intended visit deta	il reason below:	

#### 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)

FHI 059, Version 12			Issue	ed by: FHI			Date of issue	e: 08/10/2018
Case No:	2019-0713		Site No:	FS1280				
Date of Visit:		26/11/2019	]		Inspector(s):			
Registration/Authornal Business/site details 2. Changes made to	ails summary		ite representa	tive?			Y N	
Site Details								
Total No facilities		18	Facilities stoo	cked	9	No facilitie	s inspected	9
Species	SAL	WRA						
Age group	S0	wild mix						
No Fish	334,500	4,449						
Mean Fish Wt	293g	Not known						
Next Fallow Date (S	ite)	July 2021		Next Input Da	ite (Site)	Septembe	r 2021	
Recent (last 4 wks)	disease probl	ems?		N	Any escapes	(since last	visit)?	N
Movement Records								
Movement record		r inspection?						Y
2. Date of last inspe		·					21/06/2016	
3. Are records comp	lete and corre	ectly entered?	•					N
4. Are movement re	cords availab	le for dead fis	h and waste?					Y
<ol><li>Are records comp</li></ol>		•						Y
6. Are health certific	ates for introd	luctions (outw	ith GB) availa	ble?				Y
Transport Records								
1. Are any movemen		t by (or on bel	half) of the bu	siness (not usi	ing a STB)?			Y
If yes, is there a sys	tem in place f	or maintenan	ce of transpor	tation records	?			Y
Mortality Records								
Mortality records a	available for i	nspection?						Y
2. How are mortalitie					Other (detail	)		
If other detail:	White shore	cockles						
3. Mortality records	complete and	correctly ente	ered?					Y
4. Recent mortality (	last 4 wks):		390/site/last	four weeks (0	.12%). Wrass	e single figu	ires/week sind	ce input.
5. Evidence of recer	•	tvpical mortal	ities?					N
If yes, facility nos/no				reason:			'	
6. Any other peaks i	n mortality du	ring period ch	ecked?					Y
If yes, detail:		•	•	PD and some g 0.91%). See ad				
7. Have increased (	unexplained)	mortalities be	en reported to	vet or FHI?				Y
If yes, detail action:				G, mortalities h	nad reduced			
8. Have 'mortality ev	ents' been re					ality events s	sheet.	Y

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
1. Recent treatments (last 4 wks)?		Y
If yes, detail:	S.	
If other, detail:		
2. Medicines records available for insp	ection?	Y
3. Are records complete and correctly	entered?	Y
4. Are fish in a withdrawal period?		Y
5. If yes, what treatment(s)?	T.M.S.	
If other, detail:		
6. Are medicines stored appropriately?		Y
Biosecurity Records		
1. Biosecurity records available for insp	pection?	Y
2. Has the manner and frequency of m	ortality removal, recording and safe disposal beer	n considered?
3. Has the manner and period in which	the APB will notify Scottish Ministers or veterinary	y professional of any
increased (unexplained) mortality at the	ne site been included?	Y
	he event that the presence or suspicion of the pres	sence of a listed disease Y
	d when that will be notified to Scottish Ministers?	
•	animals being stocked on the farm site been cover	ered (equal or higher Y
health status, certification if required)?		
6 Uses the headendary and his security		aniaal unit ta mainimaiaa
	measures implemented between each epidemiolo (movement of staff, visitors, equipment, live or de	
	g the measures in place to maintain the physical c	
aquaculture animals held on site?	g the measures in place to maintain the physical c	ontainment of
Have the biosecurity procedures begans to the biosecurity begans to be able to	en adequately implemented on site?	
If no, detail:	on adequately implemented on site.	
Results of Surveillance		
1. Has any animal health surveillance b	been carried out by, or on behalf of, the business?	Y
2. If yes, are results available for inspe	ction?	Y

AGD has been detected this year but no

treatments required as of yet

21/6/2016 to 26/11/2019

3. Any significant results?

If yes, detail (if not detailed under recent disease problems).

Records checked between:

	ni 059, version 12							155	ueu by. F	ш			
	Case no:	2019-07	713	Site No:		FS1280			Date of vi Sampling		26/	11/2019	
	Priority samples:	VI		ВА		PA		MG		HI		l	
	Time sampling starts/ends:	15:0	0:00	16:0	0:00		Inspecto	or:			VMD No	o.	6
	Environmental conditions:	1	Indoors	2		3		4		5			
	Summary samples	HIST		ВА		MG		VI	F	PA		Total Sa	amples
A	dd Fish/Pools - click												
Г	Pool/Fish No												
Г	Fish nos	1-14	15-30										
	Pool Group												
	Species	SAL	SAL										
	Average weight	300g	300g										
	Sex												
	Water Type	SW	SW										
Stock Details		Urmsary smolt unit/(No Suggestions)	Ormsary smolt unit/clachbreach										
V.	7		_										

	Addition	nal Sam	ple Infor	mation:							
0	l	Total To	ests ass	igned	0	l					

FHI 059, Version 12		Issued by: FHI			Date of	of issue	: 08/10/2018
Case Number:	2019-0713		Site No:	FS1280		Insp:	
Date of Visit	26/11/2019		No of m	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of n	novements on from equivalent MS	0	5	10	14	5
with GB) of susceptible species		novements on from equivalent zone or	0	9	18	26	
Special Control of the Control of th	Number of sup	ncluding third country	0			14	5
Movements off			0			10	
Movements on	Frequency of n Number of des		0			10	$\vdash$
Exposure via water	rtaniber of des	Site contacts		_			_
Water contacts with other	Farm is protect	ed (secure water supply through					
farms (holding species	disinfection or l	,	0				igwdow
susceptible to same diseases)		or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		2
,		or in a coastal zone with category III					
		n or within 1 tidal excursion	1	3	6		igwdot
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		
	namio apolican	TOT WILLIAM T LIGHT CACCATOLOGY	<u> </u>		<u> </u>		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	g plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	0				
	Processing own	n fish (re-cycling risk)	1				1
	Processing fish	from MS of equivalent status	2				-
	Processing fish equivalent state	n from zone or compartment of us	4				
	Processing fish	from Category III farm	8	1			
	Processing fish	n from Category ∨ farm	10				
Disposal of fish and fish by-	Site's own was	te only processed.	0	1			0
products	Common proce	esses with other farms	3				
	Collection poin	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0	1			0
·	Feeding unpas	·	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 s	taff and equipment	0	1	2		
Disinfection of equipment	Yes		0	1			0
between sites, use of footbaths etc	No		1				-
CoGP/Regulator				•			
Practices in accordance	Yes		0	1			0
with regulator or industry code of practice	No		3				$\vdash$
out of practice				J			
Platform access to cages	Yes		0				0
	No		2				
					Total		13
					Rank		LOW

Case No:	2019-0713	]	Site No:	FS1280		
Sea Lice Inspection (		s in the previous 4 years	s?		N	
•	•			year class basis?	Y	
2. Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis?  Y  B. 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?						
. Is there a signed documented farm management agreement or statement relevant to the site and CoGP Farm fanagement Area (or equivalent)?						
. 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 ( <i>L. salmonis</i> ) 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 ( <i>L. salmonis</i> ) 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 beer	reported to the Fish	Health Inspectorate? If r	no, FHI see comment.		N	
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 <i>L. salmonis levels</i> have exceeded the suggested criteria for treatment or where <i>C. elongatus</i> is considered to have welfare implications? (CoGP 4.3.82, 5.3.51)						
11. Has any other actio	n been taken (where	applicable)?			Υ	
12. Have therapeutic tr	eatments or the action	ns taken had a significar	nt impact upon the lice le	evels recorded?	Y	
13. Are treatments, who	ere conducted, carrie	d out in cooperation bety	veen participating farms	?	Y	
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 N scenarios during the escalation of a sea lice infestation?						
16. Do the sea lice leve	els observed on stock	s reflect sea lice count d	ata? If no please detail i	reasons.	Y	
Containment Inspecti	on					
1. Has the site experier	nced equipment dama	age due to predators in t	he current or previous p	roduction cycles?	N	
2. Are measures in pla	ce to mitigate against	the predation experienc	ed on site? (Detail belov	v)	Υ	
ADD	Top nets	SEMML	seal blinds			
If other, detail below:	·					
2			:-!-!4 <b>5</b> 41 14 1 41	5    :	N	
·		perienced on or in the vi	cinity of the site since th	ie last FHI Inspection?	1	
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 all nots were deal	oved was this action a	greed with local wild fish	interests and was norm	nission given by Scottis	h	
Ministers? (Legal, CoG		.g. Jou mili local wild list	was peril	mosion given by ocollisi		
9. What action was tak	en to prevent and mir	nimise the risk of further	escapes? (Not covered	in code but could		
be considered under	-					
	•	regards to containment?	If no, please detail reas	son(s)	Υ	

Issued by: FHI

FHI 059, Version 12

Date of issue: 08/10/2018

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Case No: 2019-0713	Site No: FS1280	
Date of Visit: 26/11/2019	9 Inspector:	
Point of Compliance		
1. Is the farm under inspection located	within a farm management area?	Y
If N, no further questions require comp	letion.	
Points of Compliance for Both Farm	Management Agreements and Statements	
<ul><li>3. Is the current FMAg/S available for it</li><li>4. Does the FMAg/S identify the releva</li><li>5. Does the FMAg/S identify the fish fa</li></ul>	nt farm management area? rm site(s) to which it applies? of commencement of the agreement or stateme	Y Y Y
Arrangements for Fish Health Manag	gement	
farm?  9. Does the FMAg/S identify the vaccin  10. Does the FMAg/S identify the spec	um health standards for the stocks to be introduced in the area ies of fish which may be stocked into the area imum stocking density of any pen on any farm	or farm? Y Y
individual farm?	ngements for the storage and disposal of any d	
Arrangements for The Management	of Sea Lice	
13. Does the FMAg/S identify arrangen	ments for the sharing of data on sea lice number	ers and treatments?
14. Does the FMAg/S identify the available of statement?	ability and the use of medicines on farms cove	ered by the agreement
	irements for the sensitivity testing of available arms?	treatments for sea
	mstances under which biological controls and	
17. Does the FMAg/S identify the arran	ngements for synchronous treatments on farms	s within the area?
Live Fish Movements		
area or farm?	mstances when live fish may be introduced or ngements for the movement of live fish on and	

FHI 059, Version 12	issued by: FHI	Date of Issue: 08/10/2
Harvesting		
20. Does the FMAg/S identify acceptable	e harvest practices on farms in the area or inc	dividual farms?
Fallowing		
21. Does the FMAg/S identify the dates I date when a farm or area may be restoc	by which the area or individual farm will be falked?	low and the earliest Y
22. Does the FMAg/S identify whether or agreement or statement?	ne or more year classes may be stocked onto	sites covered by the
23. Does the FMAg/S identify whether be covered by the agreement or statement?	roodstock or potential broodstock are to be kee?	ept on any site
Point of Compliance for Farm Manage	ement Agreements Only	
24. Does the farm management agreem parties to the agreement?	ent include arrangements for persons to beco	ome, or cease to be, N/A
Management and operation		
25. Is the fish farm being managed and	operated in accordance with the agreement o	or statement?
26. What is the version no/date of issue	of the FMAg/S? Version 8	

Case No:	2019-0713	Date of visit: 26/11/2019						
Site No:	FS1280	Inspector:						
Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
			ļ					
Donort Currence				1				
Report Summary Case Type	D .		nd					
Case Type	Date	Insp	2 <sup>nd</sup> Insp					
ECI,CINI,SLI,VIVID	03/12/2019							
Case completion	06/01/2019							
			<u> </u>					
			ļ					





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
 26/11/2019

 Site No
 FS1280
 Site Name
 Loch Carnan

 Inspector
 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: Date: 06/01/2020
Fish Health Inspector





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

# FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

Business NoFB0398Date of Visit26/11/2019Site NoFS1280Site NameLoch CarnanInspectorCase No20190713

### 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.

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 6<sup>th</sup> 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.

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

