FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020
Case No: 2022-0469			Date of visit: 05/10/2022
Time spent on site:	5 hours	Main Inspec	etor:
Site No: FS1280	Site Name:	Loch Carnan	
Business No: FB0398	Business Name:	Loch Duart Ltd	
Case Types: 1 DIA	2 REP 3	4 5	6
Water Temp (°C): 12.9	Thermometer No:	T309	FHI 045 completed N/A
Observations:	Region: WI	Water type: S	CoGP MA W-17
Dead/weak/abnormally behaving	•		ormation/clinical score sheet.
Clinical signs of disease observ	ed?		formation/clinical score sheet.
Gross pathology observed?  Diagnostic samples taken?		Y if yes, see additional info	ormation/clinical score sheet.
z lagitostic samples talkem			
UNI/REG only - if unable to carr	y out intended visit deta	il reason below:	

#### **Additional Case Information:**

Cleaner fish movement records kept seperately electronically. Copies received.

Vet visit 28/09/22 no report available yet.

Beginning of August first successful freshwater treatment. Second freshwater treatment attempted in the middle of August. Fish did not handle the dewatering well for pumping onto the boat. Treatment was abandoned and not completed for the whole site. Peroxide tarp last week and this week. Peroxide treatment for AGD.

FHI 059, Version 13	}		lss	sued by: FHI			Date of issue	e: 12/05/2020
Case No:	2022-0469	]	Site No:	FS1280	<u> </u>			
Date of Visit:		05/10/2022	2		Inspector(s):			ı
Registration/Author	orisation Det	ails						
1. Business/site det			site represer	ntative?			Υ	1
2. Changes made to	_						Y	
Site Details (includ	do cloanor fic	ch for all cor	tions)					
Total No facilities	le cleaner ns	18	Facilities s	tocked	18	No facilitie	es inspected	18
Species	SAL	WRS	WRS	locked	1.0	NO lacilitie	3 mapected	10
Age group	2021 S0	2020/2021	mixed	+			_	
No Fish	160,000	5,013	9,825					
Mean Fish Wt	1.5kg	50-60g	75-80g					
Next Fallow Date (S		April/May 20		Next Input Da	ate (Site)	October 2	023	
Recent (last 4 wks)	•		J20	_	Y Any escapes			N
If yes, detail:			not detected	d, low level HSM		•	,	
II yes, uctaii.	Gill Issues (I	PD and Givio	Hot detected	a, low level i low	II) IIOIII EIIVIIOI	IIIIciilai iiist	JII, AOD and a	allellia
<b>Movement Record</b>	s							
1. Movement record	ds available fo	or inspection?	,					Y
2. Date of last inspe							26/04/2022	
3. Are records com		rectly entered	?					Y
4. Are movement re	•	•		e?				Y
5. Are records com								Y
6. Are health certific	•	•		ilable?				N/A
0.740 1100	atoo ic	uuotionis (s	,, , , , , , , , , , , , , , , , , , ,	ilias.s.				
Transport Records	5							
1. Are any moveme	nts carried ou	it by (or on be	ehalf) of the l	business (not us	sing a STB)?			
If yes, is there a sys	tem in place	for maintenar	nce of transp	ortation records	?			
Martality Pagarda								
Mortality Records								
1. Mortality records		•			[Oil (d-4-il)			1
2. How are mortaliti					Other (detail)	)		
If other detail:		to whiteshore						
3. Mortality records	complete and	d correctly en		- 12 12 12 500	12.040/		,	1
				29/8/22: 43,526	•			
				orts, 18.6%acros			•	*
				ross the whole s			•	
				; 26/09-28/09/22				le site.
1.5	(1		WRS: Sep	tember whole m	nonth for the wi	hole site 32	9 morts.	
4. Recent mortality	•							
5. Evidence of rece		• •		. ,				Y
If yes, facility nos/no		•		ty/reason:				
SAL: 6 steel cages								•
6. Any other peaks				- l l-l · · · l- 24/2	COO (remarked)	MDC: 402	0	Alara aita fan
If yes, detail:	•	•		reshold wk 31/2	U22 (reported);	, WRS: 102	2 morts acros	ss the site for
7. Have increased (		nonth of Augu		to yet or EUI2				V
If yes, detail action:			•					
8. Have 'mortality e			it 12th Augus		tality avanta ek	acot		
o. Have Intollating e	velita neeli le	sponed to 111	ii: II IIO, EIILE	a uctails on moi	tality evertis si	ICCL.		

	Treatments and Medicines Records	
	1. Recent treatments (see comment)?	Y
	If yes, detail:	
	Paramove TMS	
	If other, detail: 50,	
	2. Medicines records available for inspection?	Y
	3. Are records complete and correctly entered?	Y
	4. Are fish in a withdrawal period?	Y
	5. If yes, what treatment(s)?	
	If other, detail: TMS	
	6. Are medicines stored appropriately?	Y
	Biosecurity Records	
	Biosecurity records available for inspection?	
	2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	
	3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any	
	increased (unexplained) mortality at the site been included?	
	4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease	
	is detected been included and how and when that will be notified to Scottish Ministers?	
	5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher	
	health status, certification if required)?	
	6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	
	transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
	7. Is documentation available regarding the measures in place to maintain the physical containment of	
	aquaculture animals held on site?	
	8. Have the biosecurity procedures been adequately implemented on site?	
	If no, detail:	
	Results of Surveillance	
	1. Has any animal health surveillance been carried out by, or on behalf of, the business?	Y
	2. If yes, are results available for inspection?	Y
	3. Any significant results?	Y
	If yes, detail (if not detailed under recent disease problems).	
	vet visit 12/8/22: AGD and CGD, vet recommends FW treatment over peroxide if required. Histology suggests son	ne cardio
ı	and muscular disease. PD and CMS tested negative, heart samples showed low content of PRV (HSMI).	

26/04/22-29/09/22 Records checked between:

Г	11 009, Version 13							1550	eu by. Ffii		
	Case no:	2022-04	169	Site No:		FS1280			ate of visit/ ampling:	05/1	10/2022 05/
	Priority samples:	VI		ВА		РА		MG	Н		
	Time sampling starts/ends:		20:00		0:00		Inspecto	or:		VMD No	0. 0
	Environmental conditions:	1	Indoors	2		3		4	5		
	Summary samples	HIST	Y	ВА	Y	MG	Y	VI	PA		Total Samples
A	dd Fish/Pools - click										
	Pool/Fish No	F1	F2	F3	F4	F5					
	Fish nos	1	2	3	4	5					
	Pool Group										
	Species	SAL	SAL	SAL	SAL	SAL					
	Average weight	1.5kg	2kg	2kg	1.5kg	1.3kg					
	Sex	N/A	N/A	N/A	N/A	N/A					
	Water Type	SW	SW	SW	SW	SW					
		O	ပ	O	O	O					
ails		ea	ea	ea	ea	ea					
Details		hbr	hbr	hbı	hbı	hbı					
		Clachbreac	Clachbreac	Clachbreac	Clachbreac	Clachbreac					
Stock	Stock Origin	_		)	)						
S	Facility No	5	5	6	6	6					

Total Tests assigned 5
5 Total Tests assigned 5

FHI 059, Version 13 Issued by: FHI Date of issue: 12/05/2020

Case no:	2022-0469	Site N		Site No: FS1280		Method of killing: Percussive		sive			
Date of visit:	05/10/2022	l	Inspec	tor(s):			Sheet Relevant: Y		Y		
<b>S</b> for strong presen	ce: M for medium presence: W for v	veak pres	sence								
Fish Number		F1	F2	F3	F4	F5					
	er death (if > 45 minutes)	30min	45min	60min	75 min	90min					
External Signs	-										
Behaviour	Moribund	S	S	S	S	S					
	Lethargic	S	S	S	S	S					
	Hanging vertical										
	Spiralling										
	Flashing										
	Loss of equilibrium										
Body	Dark										
	Distended abdomen										
	Anorexic	М									
	Scale Oedema										
Opercula	Shortened				М						
	Flared										
Haemorrhaging	Throat										
	Ventrum										
	Base of fins										
	Elsewhere				М						
Eyes	Exophthalmic										
	Enophthalmic (sunken)										
	Cataract										
	Haemorrhagic										
Gills	Pale	S	S	S	S	S					
	Zoned		_								
	Necrotic										
Lesions	Flank										
20010110	Elsewhere				S						
Vent	Inflamed										
VCIIL	Trailing faeces										
Lice Load	Estimate numbers			50	30	15					
Lice Load	Estillate liulibers					10					
Internal Signs											
Ascites	Clear		М								
Ascites	Bloody	М		М							
Oedema	In tissues										
Heart	Pale/anaemic										
ricart	Granulomas										
	Deformed										
Liver	Petechial haem										
LIVEI	Gross haem										
	Tissue breakdown										
	Enlarged Colour number(s)	3	2	3	6	3					
	Granulomas	_ <u>,</u>			"	3					
	Lesions										
Dyloric cases	Petechial haem										
Pyloric caeca	Tubules mauve										
	Lack of fat										
Spleen	Enlarged										
Spieeri											
Gut	Granulomas No food present	S	S	S	S	S					
Gut		S	9	S	S	S					
	Yellow pseudo-faeces	3		-	_	-					
	External haem Internal haem										
Podywall											
Body wall	Haemorrhaging										
Swim bladder	Haemorrhaging										
Kida a	Fluid filled										
Kidney	Swollen										
	Grey										
	Granular										
	Liquefied										
General	Parasites present										
	Anaemia										

Case no: 2022-0469

Date of visit: 05/10/2022

		_					
	ce: M for medium presence: W for	гм					
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						
	Ventrum						
	Base of fins						
	Elsewhere						
Eyes	Exophthalmic						
	Enophthalmic (sunken)						
	Cataract						
	Haemorrhagic						
Gills	Pale						
	Zoned						
	Necrotic						
Lesions	Flank						
	Elsewhere						
Vent	Inflamed						
	Trailing faeces						
Lice Load	Estimate numbers						
Internal Signs							
Ascites	Clear						
	Bloody						
Oedema	In tissues						
Heart	Pale/anaemic						
	Granulomas						
	Deformed						
Liver	Petechial haem						
	Gross haem						
	Tissue breakdown						
	Enlarged						
	Colour number(s)						
	Granulomas						
	Lesions						
Pyloric caeca	Petechial haem						
	Tubules mauve						
	Lack of fat						
Spleen	Enlarged						
	Granulomas						
Gut	No food present						
	Yellow pseudo-faeces						
	External haem						
	Internal haem						
Body wall	Haemorrhaging						
Swim bladder	Haemorrhaging						
	Fluid filled						
Kidney	Swollen						
	Grey						
	Granular						
	Liquefied						
General	Parasites present						
	Anaemia						

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/202
Additional comments:		
_		

Site No: FS1280

Case No: 2022-0469

Nature of non-compliance:

Action taken (FHI):

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

Case No: 2022-0469 Date of visit: 05/10/2022 Site No: FS1280 Inspector: Results Summary **Date of Notification** Freq. 2<sup>nd</sup> Insp Database Insp Writing Insp Phone Insp 10/10/2022 MG-AGD 10/10/2022 03/11/2022 5/5 10/10/2022 10/10/2022 MG-SAL G POX 5/5 03/11/2022 10/10/2022 MG- PARA THER 5/5 10/10/2022 03/11/2022 0/5 MG-IHN 01/11/2022 02/11/2022 03/11/2022 MG-IPN 0/5 02/11/2022 03/11/2022 01/11/2022 MG-ISA 0/5 01/11/2022 02/11/2022 03/11/2022 03/11/2022 MG-PMCV 02/11/2022 0/5 01/11/2022 MG-SAV 0/5 02/11/2022 03/11/2022 01/11/2022 MG-VHS 0/5 01/11/2022 02/11/2022 03/11/2022 **EPIT** 2/5 01/11/2022 02/11/2022 03/11/2022 **AMGD** 4/5 02/11/2022 03/11/2022 01/11/2022 02/11/2022 **GPAT** 5/5 01/11/2022 03/11/2022 03/11/2022 **CGDH** 5/5 01/11/2022 02/11/2022 LPAT 4/5 03/11/2022 01/11/2022 02/11/2022 SKIN 1/5 01/11/2022 02/11/2022 03/11/2022 3/5 03/11/2022 **VSPE** 01/11/2022 02/11/2022 03/11/2022 **VVIS** 2/5 01/11/2022 02/11/2022 Report Summary 2<sup>nd</sup> Insp Case Type Date Insp DIA, REP 3/11/222





# FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 FB0398
 DATE OF VISIT
 05/10/2022

 SITE NO
 FS1280
 SITE NAME
 Loch Carnan

 CASE NO
 20220469
 INSPECTOR

## Section 1: Summary

The site was inspected due to sustained mortality reports above the reporting criteria attributed to gill issues. Five fish were selected for diagnostic sampling.

Histopathology examination revealed complex gill issues and some vascular disturbance. Amoebic gill disease and epitheliocystis (likely *Brachiomonas* sp.) were also observed. Mild, multifocal to coalescence hepatic necrosis and nephrites were observed. One fish displayed bacterial ulcerative dermatitis.

Samples tested positive for gill related pathogens: Paranucleospora theridion (5/5), salmon gill poxvirus (SGPV) (5/5) and Neoparamoeba perurans (AGD) (5/5).

Moritella viscosa was identified on plates taken from kidney material of F4 and F5 and lesion material of F4. This is likely related to the bacterial ulcerative dermatitis observed in histology. The level and purity of growth would suggest that this bacterium would be implicated as the primary source of the lesion in F4, however not the primary source of morbidity overall.

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 inspected due to sustained mortality reports above the reporting criteria attributed to gill issues. At the time of the visit the site was stocked with 2021 S0 stock at an average weight of 1.5kg, as well as farmed and wild caught wrasse. One cage group was more affected than the other. Five fish were selected from two of the worst affected pens for diagnostic sampling.

All five fish sampled displayed moribund and lethargic behaviour prior to removal from the pens. Externally, F1 was anorexic and all five fish had pale gills. F4 had shortened opercula, as well as a lesion and haemorrhaging to the dorsal cranial surface. No lice were observed on F1-F2, F3 had approximately 50 lice of all stages, F4 had approximately 40 lice of all stages and F5 had approximately 15 lice of all stages.

Internally, bloody ascites was evident in F1 and F3, while F2 showed clear ascites. No food was present in the gut of all fish and F1, F3-F5 also had yellow pseudo faeces present.

## Samples

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

Fish number	Facility number	Species	Stage	Origin
F1-F2	5	Atlantic salmon	2021 S0, 1,5kg	Clachbreac
F3-F5	6	Atlantic salmon	2021 S0, 1,5kg	Clachbreac

## Results

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

The following bacteria were isolated:

- Moritella viscosa found in fish: F4 (Kidney, Lesion); F5 (Kidney)
- Vibrio sp. (Isolate D) found in fish: F3-F5 (Kidney)
- Vibrio sp. (Isolate B) found in fish: F4 (Kidney, Lesion); F5 (Kidney)

The level and purity of growth, of the two isolates of *Vibrio* sp. that were identified, would not suggest these bacteria would be implicated as primary pathogens in this case.

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

Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value		Cp Values	Reported Result (PCR)	
F1	20.36	24.37	24.84	24.46	POSITIVE
F2	19.57	25.24	25.23	25.50	POSITIVE
F3	19.86	26.00	26.07	26.01	POSITIVE
F4	19.64	25.96	26.59	26.48	POSITIVE
F5	19.29	26.68	25.82	26.78	POSITIVE

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

**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	20.36	25.18	25.03	25.70	POSITIVE
F2	19.57	25.40	26.09	25.29	POSITIVE
F3	19.86	26.50	26.50	26.43	POSITIVE

F4	19.64	27.13	26.84	27.18	POSITIVE
F5	19.29	26.06	25.77	24.84	POSITIVE

### Paranucleospora theridion

Fish Number	Endogenous control Cp value		Cp Values	Reported Result (PCR)	
F1	20.36	32.73	33.08	33.07	POSITIVE
F2	19.57	27.41	27.13	26.55	POSITIVE
F3	19.86	29.89	30.20	30.17	POSITIVE
F4	19.64	32.14	32.41	32.25	POSITIVE
F5	19.29	28.37	27.65	27.12	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 by light microscopy revealed the following:

<u>Gill:</u> Lamellar epithelial hyperplasia, hypertrophy and lamellar fusion mild, multifocal. Lamellar congestion, haemorrhage, few lacunae and features of spongiosis observed on the hyperplasic plaques. Several amoeboid cells resembling *Neoparamoeba perurans* observed in F1, F3-F5 and basophilic epithelial inclusions (likely epitheliocystis) observed in F2 & F3. Some autolysis artefacts also observed.

<u>Skin & Muscle:</u> Minimal, multifocal inflammatory cell infiltrated in the dermal layer (F1). F4 lesion: Absence of epidermal layer, marked presence of Gram-negative bacteria on the dermal layer and reaching the musculature underneath, musculature necrosis.

Heart: Presence of some thrombi (F1). F3: No atrium in section.

Gut and pyloric caeca: Minimal peritonitis (F2, F5).

Pancreas: Within the normal range.

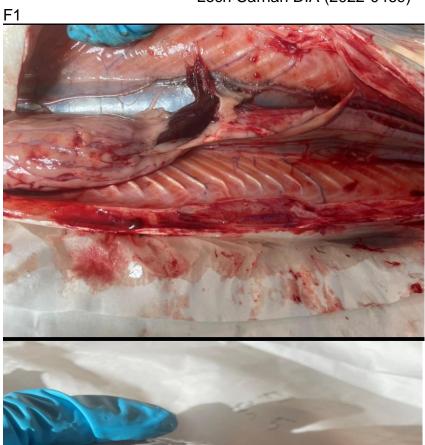
<u>Liver:</u> Hepatocellular necrosis, mild, multifocal to coalescence (F1, F2, F3 & F5).

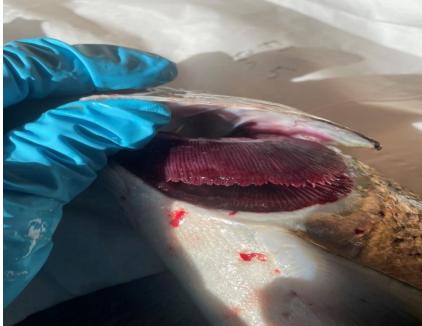
<u>Kidney:</u> Slightly increase of melanomacrophages aggregates (F1). F4 displayed shrunken glomeruli and Bowman's space filled with proteinaceous material and Interstitial cell (haemopoietic) necrosis multifocal, mild and multifocal inflammatory cell.

Spleen: Small foci of necrosis and some empty ellipsoids (F3). Some cuffing (F5).



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





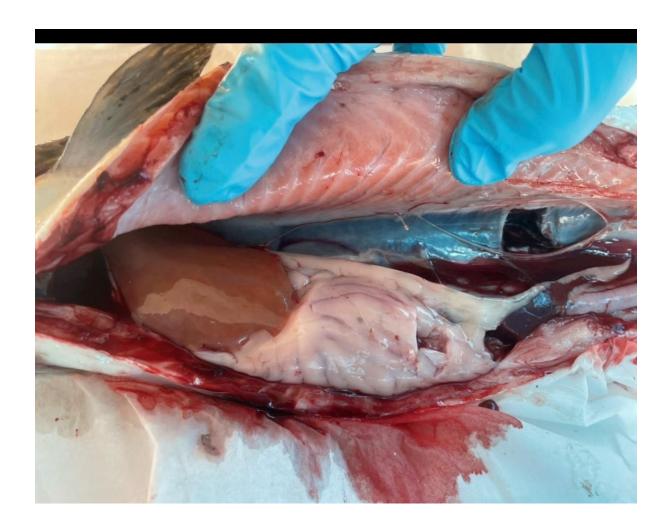




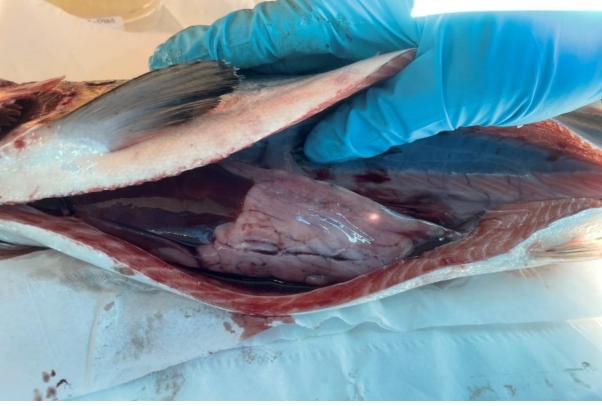






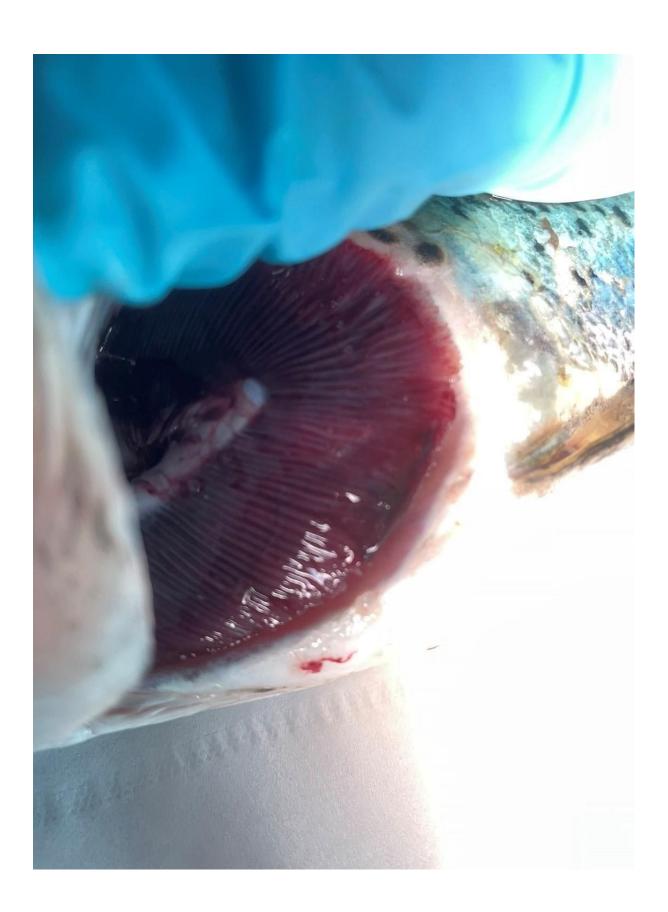


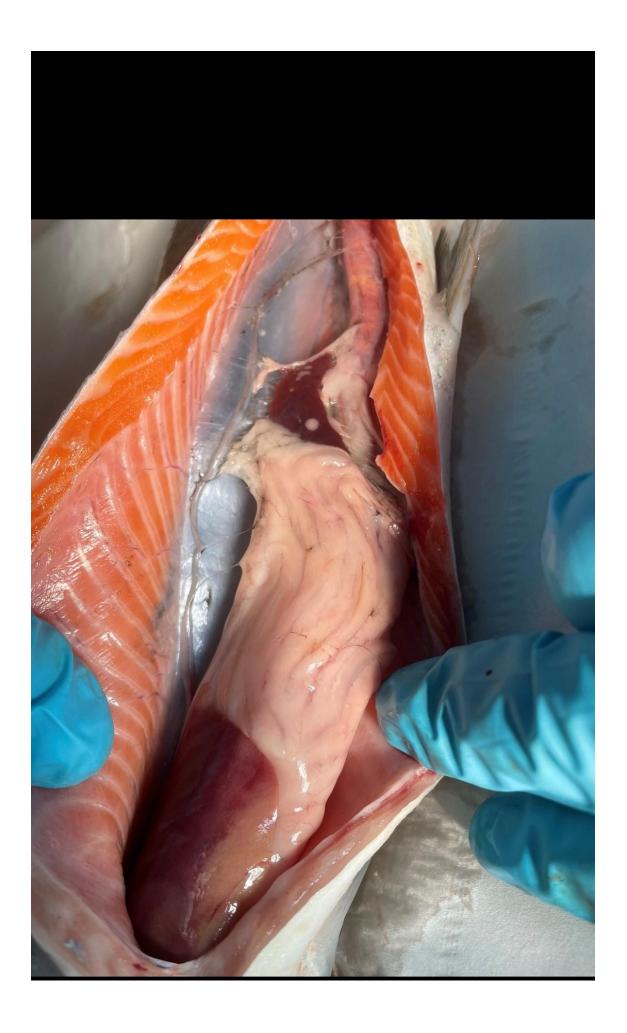












FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020		
Case No: 2022-0472			Date of visit: 03/10/2022		
Time spent on site:	hour	Main Inspecto	or:		
Site No: FS1332 Business No: FB0575	Site Name: Business Name:	Saheliya Aquaponics Saheliya			
Case Types: 1 REG 2	2 3	4 5	6		
Water Temp (°C):	Thermometer No:		FHI 045 completed		
Observations:	Region: ST	Water type: F	CoGP MA:		
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	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 detail	reason below:			

### **Additional Case Information:**

Last fish moved off to Edinburgh Vet School in early December 2019. Movement book had been sent to head office in Edinburgh, but able to confirm fallow dates.

Site has been fallow since. No facilities on site, now used as an office.

No plans to use this site again as insufficient space to do desired production.

May look in future to re-start in a larger area, but would need funding. Business to be made non-producing for now. Site to be de-registered.

FHI 059, Version 13	3		Issu	ed by: FHI			Date of issu	e: 12/05/2020
Case No:	2022-0472		Site No:	FS1332				
Date of Visit:		03/10/2022	]		Inspector(s)	):		ı
Registration/Author	orisation Deta	ails						
1. Business/site det			ite representa	ative?			Υ	1
2. Changes made to	o details?						Υ	]
Site Details (includ	de cleaner fis	h for all sect	ions)					
Total No facilities		0	Facilities sto	cked	0	No facilit	ies inspected	0
Species								
Age group								
No Fish								
Mean Fish Wt								
Next Fallow Date (S	Site)	N/A	•	Next Input Da	ate (Site)	N/A		
Recent (last 4 wks)	•	ems?		•	Any escape	s (since las	t visit)?	N/A
If yes, detail:						,	·	
Movement Record	le							
Movement record		r inspection?						N
2. Date of last inspe		i inopeodori:					17/10/2019	
3. Are records com		ectly entered?	•				17710/2013	N/A
4. Are movement re		•		•				N/A
5. Are records com								N/A
6. Are health certific		•		able?				N/A
Transport Records	e							
1. Are any moveme		t by (or on be	half) of the bu	isiness (not us	ing a STB)?			
If yes, is there a sys					_			
Mortality Records								
Mortality records		nspection?						N/A
2. How are mortaliti		•			Other (deta	il)		
If other detail:	Domestic wa				Otirior (dota	'')		
3. Mortality records			ered?					N/A
4. Recent mortality	•		No stock sin	ce 2019				
5. Evidence of rece		tvpical mortal		2010				N/A
If yes, facility nos/no		• •		/reason:				
C. Amy other modes	in na antalitu du	*in a	a alca dO					NI/A
6. Any other peaks If yes, detail:	in mortality du	ning period ch	ieckeu?					N/A
7. Have increased (	(unexplained)	mortalities be	en reported to	vet or FHI?				N/A
If yes, detail action:			0.10	1-1-1	- 116	1		
8. Have 'mortality e	vents' been re	ported to FHI	? If no, enter	details on mort	ality events s	sneet.		N/A

Treatments and Medicines Records						
1. Recent treatments (see comment)?						
If yes, detail:						
If other, detail:						
2. Medicines records available for inspection?						
3. Are records complete and correctly entered?						
4. Are fish in a withdrawal period?						
5. If yes, what treatment(s)?						
If other, detail:						
6. Are medicines stored appropriately?						
Biosecurity Records						
Biosecurity records available for inspection?						
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?						
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any						
increased (unexplained) mortality at the site been included?						
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease						
is detected been included and how and when that will be notified to Scottish Ministers?						
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher						
health status, certification if required)?						
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise						
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?						
7. Is documentation available regarding the measures in place to maintain the physical containment of						
aquaculture animals held on site?						
8. Have the biosecurity procedures been adequately implemented on site?						
If no, detail:						
Results of Surveillance						
1. Has any animal health surveillance been carried out by, or on behalf of, the business?						
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: 17/10/2019-03/10/2022						

Case No:	2022-0472			Date of visit:	03/10/2022	2		
Site No:	FS1332	' 1		Inspector:				
Results Summary	Freq.	_	1.		te of Notifica			
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp
							-	
			-				-	
			-				-	
Report Summary								
Case Type	Date	Insp	2 <sup>nd</sup> Insp					
REG	12/10/2022							
	<del> </del>							
	1							





# FISH HEALTH INSPECTORATE VISIT REPORT

#### **SUMMARY FOR INFORMATION OF SITE OPERATOR**

Business No FB0575 Date of Visit 03/10/2022

SITE NO FS1332 SITE NAME Saheliya Aquaponics

Case No 20220472 Inspector

### Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

On this occasion, the site was found to be fallow with no equipment present.

The site is no longer in operation and there are no plans to stock the site with livestock or equipment in the future. The site will therefore be de-registered.

### Records

The information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated. The movement records had been returned to head office, but confirmation of the final movements was supplied.

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

Signed: Date: 12/10/2022
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>

FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020
Case No: 2022-0473			Date of visit: 04/10/2022
Time spent on site:	hour	Main Inspec	ctor:
Site No: FS1134 Business No: FB0472	Site Name: Business Name:	Upper Avon Angling Association Upper Avon Angling Association	
Case Types: 1 ECI 2	2 CNI 3	4 5	6
Water Temp (°C): 11.5	Thermometer No:	T172	FHI 045 completed
Observations:	Region: ST	Water type: F	CoGP MA:
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	N If yes, see additional inf	formation/clinical score sheet. formation/clinical score sheet. formation/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit deta	ail reason below:	

#### **Additional Case Information:**

Fish only moved within Avon water catchment. Site category to be updated.

Currently self contained for stock - bring through own broodstock which were wild caught from catchment originally.

Due to strip end October start of November.

No movements since last inspection. Issues with otter predation - most fry eaten.

Formalin used as water treatment for Costia. No veterinary medicinal treatments.

Some minor amendments to BMP discussed and agreed. Not raised as an issue as met requirements.

Mortalities very occasional - recorded in site diary when observed.

FHI 059, Version 13		_	Issu	ed by: FHI	_		Date of issue	e: 12/05/2020
Case No:	2022-0473		Site No:	FS1134				
Date of Visit:		04/10/2022	2		Inspector(s):			
Registration/Autho	risation Deta	iils						
1. Business/site deta	ails summary	checked by	site representa	ative?			Υ	
2. Changes made to	details?						Υ	
Site Details (includ	e cleaner fis	h for all sec	tions)					
Total No facilities		5	Facilities sto	cked	4	No facilitie	es inspected	5
Species	TRO	TRO	TRO					
Age group	BRD	MVG	MVG					
No Fish	30	100	60					
Mean Fish Wt	1.5kg	0.75kg	15g					
Next Fallow Date (S	,	No plans		Next Input Da		N/A		
Recent (last 4 wks)	disease probl	ems?		N	Any escapes	(since last	visit)?	N
If yes, detail:								
<ol> <li>Are records comp</li> <li>Are movement red</li> <li>Are records comp</li> <li>Are health certification</li> </ol> Transport Records <ol> <li>Are any movement</li> <li>If yes, is there a system</li> </ol>	cords available elete and corre ates for introd nts carried out	e for dead figectly entered luctions (out)	sh and waste?  with GB) availa  chalf) of the bu	able? usiness (not usi				N/A N/A
Mortality Records								
1. Mortality records a	available for ir	nspection?						Y
2. How are mortalities	es disposed o	f?			Incinerated -	on site		
If other detail:								
3. Mortality records of	complete and	correctly ent	tered?					Y
4. Recent mortality (	last 4 wks):		No recent m	ortality				
5. Evidence of recent increased/atypical mortalities?							N	
If yes, facility nos/no	mortality per	facility/no sto	ock per facility	/reason:				
6. Any other peaks in	n mortality du	ring period c	hecked?					N
If yes, detail:								
7. Have increased (u	ınexplained) ı	mortalities be	een reported to	o vet or FHI?				N/A
If yes, detail action:								
8. Have 'mortality ev	ents' been re	ported to FH	I? If no, enter	details on morta	ality events sh	neet.		N/A

Treatments and Medicines Records	
1. Recent treatments (see comment)?	N
If yes, detail:	
If other, detail:	
2. Medicines records available for inspection?	N/A
3. Are records complete and correctly entered?	
4. Are fish in a withdrawal period?	N
5. If yes, what treatment(s)?	
If other, detail:	
6. Are medicines stored appropriately?	N/A
Biosecurity Records	
Biosecurity records available for inspection?	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been	considered?
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary	professional of any
increased (unexplained) mortality at the site been included?	Y
4. Has the action that will be taken in the event that the presence or suspicion of the pres	sence of a listed disease
is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	Y
5. Has the health status of aquaculture animals being stocked on the farm site been covered to t	ered (equal or higher Y
health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidemiology transport of staff visitors, against at live and the staff visitors.	
transmission of disease been covered (movement of staff, visitors, equipment, live or de	
7. Is documentation available regarding the measures in place to maintain the physical c	ontainment of
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?  If no, detail:	'
ii iio, detaii.	
Results of Surveillance	
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	
2. If yes, are results available for inspection?	·
3. Any significant results?	N
If yes, detail (if not detailed under recent disease problems).	
in you, asian (in not actained and a record allocated problems).	
Records checked between: 21/10/2019	

FHI 059, Version 13		Issued by: FHI			Date of	of issue	: 12/05/2020
Case Number:	2022-0473		Site No:	FS1134		Insp:	
Date of Visit	04/10/2022		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	0	0	4.0	26	0
Species	Number of sup	ncluding third country	0		18 10	26 14	0
				-	ļ		
Movements off	Frequency of m		0		6 6	10	3
Exposure via water	I variber of des	Site contacts			6-10		
Water contacts with other	Farm is protect	ed (secure water supply through					
farms (holding species	disinfection or l	porehole)	0				
susceptible to same diseases)	farms upstream	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		1
		or in a coastal zone with category III or within 1 tidal excursion	1	3	6		
		or in a coastal zone with category V nor within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	0				0
the fales of the directive	Processing own	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
		from zone or compartment of					
	equivalent statu	rrom Category III farm	4				
		from Category V farm	8				
		<u> </u>	10				
Disposal of fish and fish by- products	Site's own was	te only processed.	0				0
products	Common proce	esses with other farms	3				
	Collection point	for waste from other farms	5				
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		0
Disinfection of equipment between sites, use of	Yes		0				0
footbaths etc	No		1				
CoGP/Regulator							
Practices in accordance with regulator or industry	Yes		0				
code of practice	No		3				3
Platform access to cages	Yes		0				0
	No		2				
					Total		10
					Rank		LOW

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2
Case No: 2022-0473	Site No:	FS1134
Sea Lice Inspection (Seawater Sites Only	)	
Has the site experienced sea lice problem		
	equivalent) fallowed synchronously on a single	year class basis?
3. Does the site have access to a range of li	cenced in-feed and bath sea lice medications (in swell as access to suitable biological and/or medications)	ncluding deltamethrin,
4. Is there a signed documented farm mana. Management Area (or equivalent)?	gement agreement or statement relevant to the s	site and CoGP Farm
5. Are sea lice count records available for in	spection? (Legal SSI, CoGP Annex 6)	
6. Do records adequately reflect the required	d standard specified in the SSI and the CoGP? (I	Legal SSI, CoGP Annex 6)
7. Are sea lice ( <i>L. salmonis</i> ) record levels be records are inspected? (CoGP Annex 6)	elow the suggested criteria for treatment in the C	CoGP during the period that
8. Have average adult female sea lice ( $L$ . sa 2 or above (from w/b 10/6/19) during the per	almonis) numbers per fish been at a level of 3 or riod that records are inspected?	above (prior to w/b 10/6/19) or
If yes, have these been reported to the Fish	Health Inspectorate? If no, FHI see comment.	
9. Is C. elongatus infestation at a level which	h is considered to cause significant welfare prob	lems? (CoGP 4.3.81, 5.3.50)
	nistered or other actions taken when <i>L. salmonis</i> elongatus is considered to have welfare implica	
11. Has any other action been taken (where		
	ns taken had a significant impact upon the lice le	
	d out in cooperation between participating farms	
14. Is there a harvesting strategy for the site sea lice?	, where fewer populations or part populations are	e neid without treatment for
15. Is there a site specific written lice managescenarios during the escalation of a sea lice	gement procedure with waypoints describing set infestation?	actions to deal with recognised
16. Do the sea lice levels observed on stock	s reflect sea lice count data? If no please detail	reasons.
Containment Inspection		
•	age due to predators in the current or previous p	roduction cycles?
	the predation experienced on site? (Detail below	
top nets electric fence	screens	
If other, detail below:		
		and and all linementing?
If Yes proceed with questions 4 – 9. If No sk	operienced on or in the vicinity of the site since the guestion 10	ne last FHI inspection?
4. Have these been reported to Scottish Min		
The state of the s	forthwith (where they exist)? (CoGP – 4.4.37, 5.	4.17)
· · · · · · · · · · · · · · · · · · ·	nd local fisheries trusts forthwith (where they exis	
7. Were methods (if any) used to recover es	capees? If yes give detail	
8. If gill nets were deployed was this action a Ministers? (Legal, CoGP – 4.4.38, 5.4.18)	agreed with local wild fish interests and was pern	nission given by Scottish
	nimise the risk of further escapes? (Not covered	in code but could
be considered under satisfactory measu		(-)
10. Is the site inspected as satisfactory with	regards to containment? If no, please detail reas	son(s) Y

Case No:	2022-0473			Date of visit:	04/10/2022	2						
Site No:	FS1134	1		Inspector:								
Results Summary	Freq.			Date of Notification								
		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp				
	1											
							-					
							-					
							-					
Report Summary												
Case Type	Date	Insp	2 <sup>nd</sup> Insp									
ECI, CNI	12/10/2022											





# FISH HEALTH INSPECTORATE VISIT REPORT

### SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0472 SITE NOFS1134 SITE NAME CASE NO 20220473 DATE OF VISIT 04/10/2022 Upper Avon Angling Association

INSPECTOR

### Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

All epidemiological units were inspected. 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 information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated. The category allocated to the site was reviewed and updated as the site only supplies fisheries within the same river catchment.

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 Aquaculture and Fisheries (Scotland) Act 2007

The site was also inspected in accordance with the Aquaculture and Fisheries (Scotland) Act 2007 with respect to section 5 regarding containment and escapes.

On this occasion the site was found to be satisfactory.

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

Signed:

Fish Health Inspector

Date: 12/10/2022

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at https://www.gov.scot/publications/fish-health-inspectorate-service-charter/

R04

FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020
Case No: 2022-0476			Date of visit: 05/10/2022
Time spent on site:	hours	Main Inspec	etor:
Site No: FS0371	Site Name:	Yetts O' Muckart	
Business No: FB0235	Business Name:	Cooke Aquaculture (Freshwa	ater) Ltd
Case Types: 1 ECI	2 CNI 3 VMD	4 MIX 5	6
Water Temp (°C): 10.8	Thermometer No:	Site	FHI 045 completed N/A
Observations:	Region: CE	Water type: F	CoGP MA
Dead/weak/abnormally behaving	fish present?	N If yes, see additional inf	ormation/clinical score sheet.
Clinical signs of disease observe	d?		ormation/clinical score sheet.
Gross pathology observed?		N If yes, see additional inf	formation/clinical score sheet.
Diagnostic samples taken?		N	
UNI/REG only - if unable to carry	out intended visit detai	il reason below:	

## **Additional Case Information:**

Some mortalities go to Widness. Ensiled waste taken by Ferguson's

Increased mortality of 3.18%, (10,653) in WK 21 1 week after input - IPN was suspected, however no clinical signs observed before transport. Company health report stated that the mortality rate dropped significantly after the first week and this was confirmed in mortality records.

S0 fish will be moving to Orkney this year.

Site thermometer used for biosecurity.

Inspection conducted by a udited by

EU 050 Vania 40	lace and here EIII	D-1	F/0000
FHI 059, Version 13	Issued by: FHI	Date of issue: 12/0	5/2020
Case No:	2022-0476		
Date of Visit:		05/10/2022	
Registration/Author 1. Business/site deta 2. Changes made to	ails summary checked by site representative?		
Site Details (includ	e cleaner fish for all sections)		
Total No facilities		15	
Species	SAL	SAL	
Age group	2022S0	2023 S1	
No Fish	321,248	699,926	
Mean Fish Wt	75g	50 g	
Next Fallow Date (S		March 2023	
Recent (last 4 wks)	disease problems?		
If yes, detail:			
<ul> <li>4. Are movement re</li> <li>5. Are records comp</li> <li>6. Are health certific</li> <li>Transport Records</li> <li>1. Are any movement</li> </ul>	lete and correctly entered? cords available for dead fish and waste? lete and correctly entered? ates for introductions (outwith GB) available?		
2. How are mortalities of their detail:	available for inspection? es disposed of? complete and correctly entered?		
	last 4 wks):  It increased/atypical mortalities?  mortality per facility/no stock per facility/reason:		
6. Any other peaks i	n mortality during period checked?		
If yes, detail:	See additional comments		
7. Have increased (	nexplained) mortalities been reported to vet or FHI?		

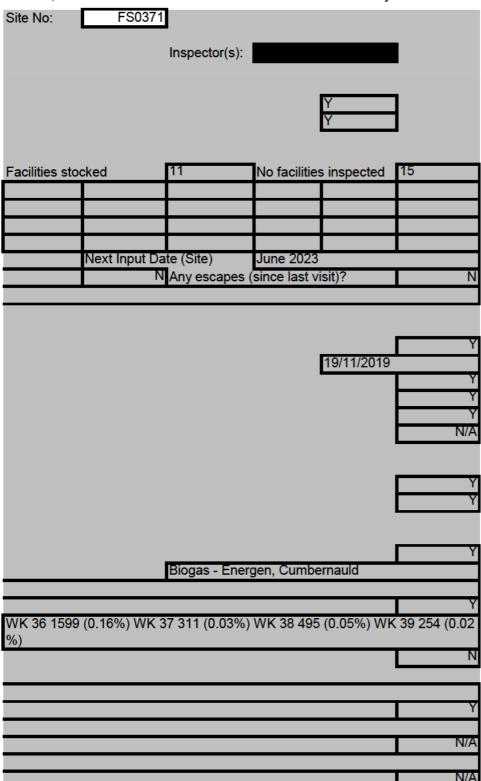
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

If yes, detail action:

Treatments and Medicines Records		
1. Recent treatments (see comment)?		
If yes, detail:		Cress, Formalin
If other, detail: Formalin, Cress		Cress
2. Medicines records available for inspection	on?	
3. Are records complete and correctly ente	red?	
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 inspect	ion?	
2. Has the manner and frequency of morta	lity removal, recording and safe dispe	osal been considered?
3. Has the manner and period in which the	APB will notify Scottish Ministers or	veterinary professional of any increased
4. Has the action that will be taken in the e	vent that the presence or suspicion of	of the presence of a listed disease is det
Scottish Ministers?		
5. Has the health status of aquaculture ani	mals being stocked on the farm site I	been covered (equal or higher health sta
6. Have the husbandry and biosecurity me	asures implemented between each e	pidemiological unit to minimise transmis
equipment, live or dead fish etc.)?		
<ol><li>Is documentation available regarding the</li></ol>	•	physical containment of aquaculture anim
8. Have the biosecurity procedures been a	dequately implemented on site?	
If no, detail:		
Results of Surveillance		
1. Has any animal health surveillance beer	• •	ousiness?
<ol><li>If yes, are results available for inspection</li></ol>	n?	
3 Any significant results?		

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

Records checked between:



19/11/2019 - 05/10/2022

F	HI 059, Version 13													ISS	ued by:	FHI				
	Case no:	2022	-04	76		Site N	lo:		E	S0371					Date of Sampli		/	05/	10/2022	05/
	Priority samples:		VI			В	Α		3	PA			М	IG		<b>]</b>	НІ		1	
	Time sampling starts/ends:	13	3:0	0:00		14	:0	0:00	3		Insp	pecto	or:	١				VMD No	o.	16
	Environmental conditions:		1	Indo	ors		2		]	3				4		]	5			
	Summary samples	HIS	ST			В	Α		]	MG			۱ ۱	VI		]	PA		Total Sa	amples
Α	dd Fish/Pools - click																			
	Pool/Fish No																			
	Fish nos	F1-3		F4-6		F7-9		F10-12	2 F	13-16	F17	′-20	F21-2	24	F25-28					
	Pool Group																			
	Species	SAL		SAL		SAL		SAL		AL	SAI		SAL		SAL					
	Average weight	75g		75g		75g		75g		0g	50g		50g		50g					
	Sex	N/A		N/A		N/A		N/A		l/A	N/A		N/A		N/A					
	Water Type	FW		FW		FW		FW	F	W	FW	1	FW		FW					
tock Details	Stock Origin		Highland		Kames		∧ames	Kames		Kames	Do	Kames		Kames	Kames					
S	Facility No	C1		C2		C3		C4	В	1	B2		B3		B4					

10/2022	Addition	nal Sam	ple Infor	mation:							
0	1	Total To	ests ass	igned	0	l					

FHI 059, Version 13		Issued by: FHI			Date o	of issue	: 12/05/2020
Case Number:	2022-0476		Site No:	FS0371		Insp:	
Date of Visit	05/10/2022		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	0	9	18	26	0
•	Number of sup	ncluding third country pliers	0		10	14	0
Movements off	Frequency of m	povements off	0	3	6	10	10
Movements on	Number of des		0		6	10	3
Exposure via water		Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species	disinfection or l	,	0				0
susceptible to same diseases)	farms upstream	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		
	farms upstream	or in a coastal zone with category III n or within 1 tidal excursion	1	3	6		
		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	plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	0				0
	Processing own	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2	1			
	Processing fish equivalent state	from zone or compartment of us	4				
		from Category III farm	8				
	Processing fish	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	1			
	Collection point	t for waste from other farms	5	1			
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0	ĺ			0
·	Feeding unpas	teurised feed	5	1			
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	]			0
between sites, use of footbaths etc	No		1				
CoGP/Regulator							
Practices in accordance with regulator or industry	Yes		0				0
code of practice	No		3				
Platform access to cages	Yes		0	]			0
	No		2				
					Total Rank		13 LOW

Case No:	2022-0476	]	Site No: FS0371	
2. Is the CoGP Farm M 3. Does the site have a	nced sea lice probler lanagement Area (or access to a range of amectin benzoate)	ms in the previous 4 years? requivalent) fallowed synchronously of licenced in-feed and bath sea lice med as well as access to suitable biological.	• •	nd
4. Is there a signed doo Management Area (or e		agement agreement or statement relev	ant to the site and CoGP Farm	
		nspection? (Legal SSI, CoGP Annex 6) ed standard specified in the SSI and the		
7. Are sea lice ( <i>L. salm</i> records are inspected?		pelow the suggested criteria for treatme	ent in the CoGP during the period that	
		almonis) numbers per fish been at a le riod that records are inspected?	evel of 3 or above (prior to w/b 10/6/19) o	or
If yes, have these been	reported to the Fish	n Health Inspectorate? If no, FHI see co	omment.	
9. Is C. elongatus infes	station at a level which	ch is considered to cause significant we	elfare problems? (CoGP 4.3.81, 5.3.50)	
suggested criteria for tr	reatment or where C	-	L. salmonis levels have exceeded the are implications? (CoGP 4.3.82, 5.3.51)	
11. Has any other action	•		a the Bee levels assended	
•		ons taken had a significant impact upor ed out in cooperation between participa		
		e, where fewer populations or part pop	_	
15. Is there a site speciscenarios during the es			cribing set actions to deal with recognise	ed
16. Do the sea lice leve	els observed on stoc	ks reflect sea lice count data? If no ple	ease detail reasons.	
Containment Inspecti	on			
1. Has the site experier	nced equipment dam	nage due to predators in the current or	previous production cycles?	N
	ce to mitigate agains	t the predation experienced on site? (E	Detail below)	Υ
Nets on tanks If other, detail below:				
ii otilei, detaii below.				
Have escape incide     If Yes proceed with que		experienced on or in the vicinity of the skip to question 10	site since the last FHI inspection?	N
4. Have these been rep				
5. Have these been rep	oorted to local DSFB	forthwith (where they exist)? (CoGP $-$	4.4.37, 5.4.17)	
6. Have these been rep	ported to the SSPO a	and local fisheries trusts forthwith (whe	ere they exist)? (CoGP – 4.4.37, 5.4.17)	
7. Were methods (if an	y) used to recover e	scapees? If yes give detail		
9. If all note were deal	oved was this setion	agrood with local wild fish interests are	d was normission given by Caettish	
Ministers? (Legal, CoG	SP - 4.4.38, 5.4.18)	agreed with local wild fish interests and		
		inimise the risk of further escapes? (No	ot covered in code but could	
be considered under 10. Is the site inspected	•	sures of the Act)  regards to containment? If no, please	e detail reason(s)	Υ
			.,	

Issued by: FHI

FHI 059, Version 13

Site No: FS0371

Case No: 2022-0476

Nature of non-compliance:

Action taken (FHI):

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

Case No:	2022-0476			Date of visit:	05/10/2022							
Cita Na	EC0274			I								
Site No:	FS0371			Inspector:								
Results Summary	Freq.			Date of Notification								
ŕ		Database	Insp		Insp	Writing	Insp	2 <sup>nd</sup> Insp				
	_											
Report Summary												
Case Type	Date	Insp	2 <sup>nd</sup> Insp									
ECI, CNI, VMD	20/10/2022 21/10/2022											
MIX	21/10/2022											





# FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

BusinessNoFB0235Date of Visit05/10/2022Site NoFS0371Site NameYetts O' MuckartCase No20220476Inspector

# Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

All epidemiological units were inspected. 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.

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

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 with respect to section 5 regarding containment and escapes.

On this occasion the site was found to be satisfactory.

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/publications/fish-health-inspectorate-service-charter/">https://www.gov.scot/publications/fish-health-inspectorate-service-charter/</a>

Date: 20/10/2022

FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020
Case No: 2022-0477			Date of visit: 04/10/2022
Time spent on site:	1	Main II	nspector:
Site No: FS0605 Business No: FB0119	Site Name: Business Name:	Creag an T'Sagairt (Loc Mowi Scotland Ltd	ch Hourn)
Case Types: 1 ECI 2	2 CNI 3 SLA	4 VMD 5	6
Water Temp (°C): 13.5	Thermometer No:	T173	FHI 045 completed
Observations:	Region: HI	Water type: S	CoGP MA: M-22
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 carry	out intended visit detai	l reason below:	

#### **Additional Case Information:**

Additional peaks in salmon mortality in 2021 wk 30 1.32% 3604 (CMS), wk 31 1.61% 4426 (CMS), wk 32 1.90% 4139 (CMS), wk 38 3.80 4649 (transfer losses), wk 40 2.61% 6092 records detail 3538 fw to sw transfer loss, 2122 SW to SW. The FW to SW entry was confirmed to be an error when inputting data.

Additional peaks in lumpfish mortality 2020 wk 39 8594 9.23% (AGD & other non infectious causes), wk 41 7.78% 3695 AGD, handling and transport losses), wk 43 7.19% 6685 (no specific cause)

No issues reported with the new input, fish are feeding well.

FHI 059, Version 13		_	Issu	ed by: FHI	_		Date of issue	e: 12/05/2020		
Case No:	2022-0477		Site No:	FS0605						
Date of Visit:	of Visit: 04/10/2022 Inspector(s):									
Registration/Author	risation Deta	nils								
1. Business/site deta			site representa	ative?			У			
2. Changes made to	•	,	·				Y			
Site Details (include	o alaanar fic	h for all coat	ions)							
Site Details (include Total No facilities	e cleaner iis	7	Facilities sto	cked	6	No facilitie	s inspected	6		
Species	SAL	LUM	i aciiiles sio	CKEU	J	INO TACITILE	inspected	O		
Age group	2022Q3	2022								
No Fish	-									
	1,126,705	104,535 25g								
Next Fallow Date (Si	341g	259 Feb 2024	<u> </u>	Next Input Da	to (Sito)	Aug 2024				
Recent (last 4 wks)				•	Any escapes		vicit\2	N		
If yes, detail:	lisease probl	CIIIS:		14	Arry escapes	(Silice last	visit) :	IV		
3. Are records complete and correctly entered? 4. Are movement records available for dead fish and waste? 5. Are records complete and correctly entered? 6. Are health certificates for introductions (outwith GB) available?  Transport Records 1. Are any movements carried out by (or on behalf) of the business (not using a STB)?  If yes, is there a system in place for maintenance of transportation records?										
Mortality Records										
Mortality records a	vailable for in	nspection?						Y		
2. How are mortalitie		•			Ensiled - on:	site				
If other detail:										
3. Mortality records of	complete and	correctly ent	ered?					Y		
<ul><li>3. Mortality records complete and correctly entered?</li><li>4. Recent mortality (last 4 wks):</li><li>798/site last four weeks post transfer losses</li></ul>										
5. Evidence of recent increased/atypical mortalities?								N		
If yes, facility nos/no mortality per facility/no stock per facility/reason:										
<b>,</b> ,		.,	, , , , , ,							
6. Any other peaks in mortality during period checked?								Y		
If yes, detail: see additional comments										
7. Have increased (unexplained) mortalities been reported to vet or FHI?								N/A		
If yes, detail action:										
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.							Y			

Treatments and Medicines Records		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
1. Recent treatments (see comment)?		Y					
If yes, detail: T.M.S. SLICE							
If other, detail:		\ /					
Medicines records available for inspection?		Y					
3. Are records complete and correctly entered?		Y					
4. Are fish in a withdrawal period?	0.105	Y					
5. If yes, what treatment(s)?	SLICE TMS						
If other, detail:		V					
6. Are medicines stored appropriately?		Y					
Pioceaurity Poords							
Biosecurity Records  1. Biosecurity records available for inspection?	_	\/					
<ol> <li>Biosecurity records available for inspection?</li> <li>Has the manner and frequency of mortality removal, records.</li> </ol>	ording and cafe disposal boon considered?	y					
3. Has the manner and period in which the APB will notify S	•	У					
increased (unexplained) mortality at the site been included		У					
4. Has the action that will be taken in the event that the pres		У					
is detected been included and how and when that will be no	· · · · · · · · · · · · · · · · · · ·	V					
		У					
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?							
Tiodiar ciatac, commodicin i roquirou).							
6. Have the husbandry and biosecurity measures implemen	nted between each epidemiological unit to minimise	У					
transmission of disease been covered (movement of staff, v	· · · · · · · · · · · · · · · · · · ·	,					
7. Is documentation available regarding the measures in pla		У					
aquaculture animals held on site?							
8. Have the biosecurity procedures been adequately implem	mented on site?	У					
If no, detail:							
Results of Surveillance							
1. Has any animal health surveillance been carried out by, or	or on behalf of, the business?	У					
2. If yes, are results available for inspection?		Y					
3. Any significant results?		N					
If yes, detail (if not detailed under recent disease problems)	).						
Records checked between:	31/10/19 to 4/10/2022						

10/2022 Additional Sample Information:	
0 Total Tests assigned 0	

FHI 059, Version 13		Issued by: FHI			Date of	of issue	: 12/05/2020
Case Number:	2022-0477		Site No:	FS0605		Insp:	
Date of Visit	04/10/2022		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	0	9	18	26	0
ороскоо Станата и постава	Number of sup	ncluding third country	0		10	14	0
Movements off	Frequency of m				6	10	10
iviovements on	Number of des		0		6	10	3
Exposure via water	110111001 01 000	Site contacts			6-10		
Water contacts with other farms (holding species	disinfection or l	•	0				
susceptible to same diseases)	farms upstream	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		1
	farms upstream	or in a coastal zone with category III or within 1 tidal excursion or in a coastal zone with category V	1	3	6		
		or in a coastal zone with category v	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro		0				0
	Processing own	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent statu	from zone or compartment of us	4				
	Processing fish	from Category III farm	8				
	Processing fish	from Category V 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 point	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	npasteurised feed	0	i 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		
Disinfection of equipment	Yes		0	]			0
between sites, use of footbaths etc	No		1				
CoGP/Regulator			<u> </u>	J			
Practices in accordance	Yes		0	1			0
with regulator or industry code of practice	No		3				
Platform access to cages	Yes		0				0
	No		2				
					<b>Total</b> Rank		14 LOW

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2
Case No: 2022-0477	Site No:	FS0605
Sea Lice Inspection (Seawater Sites Only)		
Has the site experienced sea lice problem		
	equivalent) fallowed synchronously on a single	year class basis?
	cenced in-feed and bath sea lice medications (in well as access to suitable biological and/or med d of time?	
4. Is there a signed documented farm management Area (or equivalent)?	gement agreement or statement relevant to the s	site and CoGP Farm
5. Are sea lice count records available for ins	spection? (Legal SSI, CoGP Annex 6)	
6. Do records adequately reflect the required	I standard specified in the SSI and the CoGP? (I	Legal SSI, CoGP Annex 6)
7. Are sea lice ( <i>L. salmonis</i> ) record levels be records are inspected? (CoGP Annex 6)	elow the suggested criteria for treatment in the C	coGP during the period that
8. Have average adult female sea lice ( <i>L. sai</i> 2 or above (from w/b 10/6/19) during the peri	Imonis) numbers per fish been at a level of 3 or iod that records are inspected?	above (prior to w/b 10/6/19) or
If yes, have these been reported to the Fish I	Health Inspectorate? If no, FHI see comment.	
9. Is C. elongatus infestation at a level which	n is considered to cause significant welfare prob	lems? (CoGP 4.3.81, 5.3.50)
	istered or other actions taken when <i>L. salmonis</i> elongatus is considered to have welfare implica	
11. Has any other action been taken (where		
	ns taken had a significant impact upon the lice le	
	d out in cooperation between participating farms	
sea lice?	, where fewer populations or part populations ar	e neid without treatment for
15. Is there a site specific written lice manag scenarios during the escalation of a sea lice	ement procedure with waypoints describing set infestation?	actions to deal with recognised
16. Do the sea lice levels observed on stocks	s reflect sea lice count data? If no please detail	reasons.
Containment Inspection		
•	age due to predators in the current or previous p	roduction cycles?
	the predation experienced on site? (Detail below	
Bird nets HDPE nets	Tensioned with froya ring	
If other, detail below:	,	
		and a fill in an action O
3. Have escape incidents or events been ex If Yes proceed with questions $4 - 9$ . If No ski	perienced on or in the vicinity of the site since the	ne last FHI inspection?
4. Have these been reported to Scottish Mini	•	
·	orthwith (where they exist)? (CoGP – 4.4.37, 5.	4.17)
· ·	nd local fisheries trusts forthwith (where they exis	
7 Mars mathoda (if any) used to recover as	con and If you give detail	=
7. Were methods (if any) used to recover esc	capees? If yes give detail	
8. If gill nets were deployed was this action a Ministers? (Legal, CoGP – 4.4.38, 5.4.18)	greed with local wild fish interests and was pern	nission given by Scottish
	imise the risk of further escapes? (Not covered	in code but could
be considered under satisfactory measu		202(0)
To. Is the site inspected as satisfactory with i	regards to containment? If no, please detail reas	son(s) Y

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
	te No: FS0605	Date of Issue. 12/03/2020
2022-0477 Sil	F30605	
Date of Visit: 04/10/2022	Inspector:	
Point of Compliance		
1. Is the farm under inspection located with	nin a farm management area?	Y
If N, no further questions require completio		
Points of Compliance for Both Farm Ma		
<ol><li>Has a current farm management agreen</li><li>Is the current FMAg/S available for inspendent</li></ol>		Y Y
4. Does the FMAg/S identify the relevant fa		<u>.</u> Y
5. Does the FMAg/S identify the fish farm s		Y
6. Does the FMAg/S identify the date of co	•	nent? Y
7. Does the FMAg/S identify the date of rev	/iew?	Υ
Arrangements for Fish Health Managem	ent	
8. Does the FMAg/S identify the minimum I		oduced to the area or Y
farm?		
9. Does the FMAg/S identify the vaccination	•	
<ol> <li>Does the FMAg/S identify the species of the species of the FMAg/S identify the maximun</li> </ol>	•	
individual farm?	in stocking density of any pen on any fam	Thrule area of the
12. Does the FMAg/S identify the arrangem		dead fish from any
fish farm in the area or the individual farm	?	
Arrangements for The Management of S	Sea Lice	
13. Does the FMAg/S identify arrangement		bers and treatments?
14. Does the FMAg/S identify the availabilit of statement?	ty and the use of medicines on farms cov	rered by the agreement
15. Does the FMAg/S identify any requirem	nents for the sensitivity testing of available	e treatments for sea
lice on farms in the area or individual farms		
16. Does the FMAg/S identify the circumsta		d cleaner fish are to be
used on farms in the area or individual farm		
17. Does the FMAg/S identify the arrangen	nents for synchronous treatments on farn	ns within the area?
Live Fish Movements		
18. Does the FMAg/S identify the circumsta	ances when live fish may be introduced o	
area or farm? 19. Does the FMAg/S identify the arrangen	ponts for the movement of live fish on an	d off sites in the area
or individual farms?	ients for the movement of live lish on an	u on sites in the area

FHI 059, Version 13 Issued by: FHI D	Pate of issue: 12/05/2020
Harvesting 20. Does the FMAg/S identify acceptable harvest practices on farms in the area or individual farms?	Y
<b>Fallowing</b> 21. Does the FMAg/S identify the dates by which the area or individual farm will be fallow and the earlie	est Y
date when a farm or area may be restocked?  22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by	the Y
agreement or statement?  23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?	Y
Point of Compliance for Farm Management Agreements Only 24. Does the farm management agreement include arrangements for persons to become, or cease to be parties to the agreement?	be, N/A
Management and operation  25. Is the fish farm being managed and operated in accordance with the agreement or statement?  26. What is the version no/date of issue of the FMAg/S?  09/08/2022	Y

Case No:	2022-0477	Site No:	FS0605	
Date of visit:	04/10/2022	Inspector(s):		

Point for consideration Risk level Satisfactory? Requirement Comments and advice given or action taken if necessary

## **ENHANCED SEA LICE INSPECTION CHECKLIST**

a. Inspection of sea lice records						
1.1 Are sea lice count records available for inspection?	Medium	Υ	CoGP 1.2.1, 1.2.2,			
1.2 Do records adequately reflect the required standard specified in the SSI <sup>1</sup> and the CoGP <sup>2</sup> ?	Low & Medium	Υ	Annex 6 SSI 1,2,			
(Counts should be weekly, record the person making the count, date						
of the count, number of fish sampled (should be 25), pen or facility						
number recorded, water temperature <sup>3</sup> , number of parasites observed						
and correct stages recorded <sup>4</sup>			0014.0( )			
1.3 Where weekly counts are not conducted is the reason for not conducting the count stated?	Low	Y	SSI 1,2(g)			
1.4 Is that reason considered acceptable by the Inspector? Give	Low	Υ				
detail.  1.5 Has the site experienced sea lice problems in the previous 4		N	Detail if necessary:			
years?			Detail il Hoocosaly.			
b. Inspection of records relating to treatment and control of sea li	ce					
2.1 Has appropriate action been taken where:						
a) L. salmonis record levels have been above the suggested criteria for treatment?	High	Υ	CoGP Annex 6			
<ul><li>b) C. elongatus infestation is at a level considered to cause significant</li></ul>	High	N/A	CoGP 4.3.81, 5.3.50			
welfare problems	riigii	IV/A	4.5.01, 5.5.50			
2.2 Is therapeutic treatment initiated ASAP where required?	Medium	Υ	CoGP 4.3.130, 5.3.84			
2.3 Where medicines have been administered there should be a			VMD <sup>12</sup> 19			
record of :			SSI 1,3			
the name / identity of the product	High	Υ				
the date of administration	High	Υ				
the quantity (concentration and amount) administered	High	Υ				
the method of administration of the product	High	Υ				
the identification of the fish / facilities treated	High	Υ				
name of the person administering the treatment	Low	Υ				
the withdrawal period	Medium	Υ				
2.4 If the medicine is administered by a veterinary surgeon:			VMD 18			
the name of the veterinary surgeon	•	N/A				
name of the product	_	N/A				
batch number	High	N/A				

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
the date of administration	High	N/A		
amount administered	High	N/A		
identification of fish treated	High	N/A		
withdrawal period	Medium	N/A		
2.5 Have therapeutic treatments or the actions taken had a significant	High	Υ		
impact upon the lice levels recorded?				
Inspect records to confirm. Significant impact - ≥50% reduction in site average <i>L.salmonis</i> numbers (all stages)				
2.6 If other methods are employed on site to control sea lice and their impact is there a record of:	Low	Y	SSI, 1,4	
the nature and date of the method employed; the identification number of all facilities subjected to the method; the name of the person employing the method				
2.7 Where medicines have been acquired is there a record of:			VMD 19	
proof of purchase of the medicine concerned	Medium	Υ	VMD 17	
name of the product	High	Υ		
batch number	High	Υ		
the date of purchase	Medium	Υ		
the quantity purchased	High	Υ		
the name and address of the supplier	Medium	Υ		
2.8 Where medicines have been disposed is there a record of:			VMD 19	
the date of disposal	Medium	N/A		
the quantity of product involved	Medium	N/A		
how and where it was disposed of	Medium	N/A		
2.9 Are veterinary health plans available which detail bio-security	Medium	Υ	CoGP 4.3.129, 5.3.83	
protocols, preventative measures and treatments in relation to sea lice?				
Consider the following points over a percentage of treatments conducted on site				
2.10 Has the recommended course of treatments been completed?	Medium	Y	CoGP 4.3.134, 5.3.88	
2.11 If not, is there a recorded acceptable reason for not completing treatment?	Medium	N/A	CoGP 4.3.135, 5.3.89	
2.12 Was advice taken from the Veterinary surgeon in such circumstances?	Medium	N/A	CoGP 4.3.135, 5.3.89	
2.13 Are there clear written instructions regarding medicine use, available to those responsible for treatment administration?	Medium	Υ	CoGP 4.3.133, 5.3.87	

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
2.14 Does the site have treatment discharge consents relevant to sea lice?		Υ	Detail if necessary:	
c. Inspection of records relating to farm management groups and	farm manage	ment agreement	s or statements	
3.1 Is there a nominated farmer acting as coordinator and point of contact for this farm or area inclusive of this farm?	Low	Υ	SSI 1,5,b CoGP 4.3.75, 5.3.44	
3.2 Is there a written undertaking that the farm will observe the provisions of the NTS <sup>6</sup> ?	Low	Υ	CoGP 4.3.76, 5.3.45	
3.3 Has an area group been formed within the area containing the site?	Medium	N/A	CoGP 4.3.77, 5.3.46	Only site in management area however weekly health meeting conducted with area and regional manager with input from biology department, decision on treatments to be used will be made through his process. Minutes of these meetings are maintained and available for inspections
3.4 Does the remit of the area group have appropriate veterinary involvement? Consider: -agreed basis for monitoring sea lice -coordinated monitoring and treatment -co-operation between participating farms	Medium	N/A	CoGP 4.3.77, 5.3.46 SSI 1,5, c	Only site in management area however company wide discussions occur to make decisions on appropriate treatments and strategies to mitigate sea lice.
This may require follow up investigation conducted off site to determine			1	
3.5 Are records available of any decisions made by the FMG in relation to the prevention, control and reduction of parasites?	Low	N/A	SSI 1, 5, c	
3.6 Where treatments have been administered is this done in accordance with principles to maximise the effectiveness of treatments, promote the minimal use of medicines consistent with the maintenance of high standards of fish welfare and help preserve their efficacy?	Medium	Y	4.3.82, 5.3.51	
For example, the principles of ISLM include: Resistance monitoring – reporting suspected adverse drug event (SADE) to the VMD.				
The steps to determine if resistance is considered a reason for a suspected lack of efficacy (e.g. Bio-assay tests and results, seeking veterinary advice)				
Appropriate discharge consent in place Use of authorized medicines with veterinary instruction and advice as necessary				
Monitoring lice numbers Using an array of treatments where possible Treating all stocks on site at the same time				
Avoiding the simultaneous use of different active ingredients Avoiding consecutive treatments of the same active ingredient, and certainly not on the same cohort of lice				

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
Routine removal of moribund fish and regular removal of mortalities.				
3.7 Are weekly monitoring results communicated to other farmers within the defined area?	High	Y	CoGP 4.3.78, 5.3.47	
3.8 Is this done 'as soon as reasonably possible where lice numbers exceed the suggested criteria for treatment?	High	Y	CoGP 4.3.79, 5.3.48	
3.9 Is sea lice data and other information relevant to the management of sea lice provided to the SSPO?	Low	Y	CoGP 4.3.80, 5.3.49	
3.10 Are annual review meetings held by FMA groups to evaluate site performance against set criteria?	High	Y	CoGP 4.3.83, 5.3.52	The site has an end of cycle debrief to effectiveness of treatments, trends etc.
3.11 Is there a signed documented farm management agreement or farm management statement relevant to the site and CoGP Farm		Y	AFSA <sup>13</sup> 4A	
Management Area (or equivalent)?			Detail if necessary:	
3.12 Are up to date copies of FMS available from other APB operating within the same FMA?	Medium	N/A	CoGP 4.3.88, 5.3.57	Only site in area
3.13 Are significant changes to FMS notified to other companies within the FMA?	Medium	N/A	CoGP 4.3.89, 5.3.58	
3.14 Is there co-operation between APB's operating within the FMA in the development and implementation of FMAg?	Medium	N/A	CoGP 4.3.90, 5.3.59	
3.15 Are copies of FMS or FMAg available for inspection?	Medium	Y	AFSA 4B	
3.16 Does the FMS or FMAg take into account the relevant aspects regarding a sea lice control strategy?	Medium	Y	CoGP 4.3.91, 5.3.60	
3.17 If the FMA has been redefined, is there documented evidence to demonstrate that the risks to health within and outwith the area is not increased by the proposal?	High <sup>10</sup>	N/A	CoGP 4.3.92, 5.3.61	
3.18 Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis?	High	Y	CoGP 4.3.100	
3.19 If answered no to 3.18, then is there a documented risk assessment which meets the requirements of CoGP point 4.3.101?	High	N/A	CoGP 4.3.101	
d. Inspection of records relating to training and procedures				
4.1 Is there a training programme or plan in place relevant to sea lice control for the site?	High	Y	CoGP 7.1.8	Company has developed 'Mowi Academy' which details training in relation to sea lice identification and treatments
4.2 Are training records available for relevant staff in relation to:			CoGP 4.1.6, 5.1.6 SSI, 1,1	
parasite identification	High	У	CoGP 4.3.84-86,	
counting parasites (procedures for)	High	У	5.3.53-55	
recording counts	High	V		
biology and life cycle of parasites	Low	Y		
symptoms of parasite infection in fish	Low	Υ		

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
4.3 Have staff been trained in the administration of treatments?	High	Y	CoGP 4.1.6, 5.1.6 CoGP 4.3.84, 5.3.53	Two members of staff trained to administer treatments, certificate available.
N.B. there is no legal requirement to maintain a record of this				
Where records exist regarding SOPs and site procedures these				
should be inspected to confirm suitability				
e. Inspection of site and site stock				
5.1 Are medicines used, stored and disposed of safely?	Medium	Υ	VMD schedule 5	
5.2 Do the sea lice levels observed on stocks reflect sea lice count data?	High	Υ		
Refer to section e) of guidance notes				
5.3 Does the site appear satisfactory in terms of fish welfare relating to sea lice infestation?	High	Υ		
f. Inspection of farm count procedures				
6.1 Are pens and fish sampled at random?	Low	Y	CoGP Annex 6,	The company policy is to aim to sample all pens each week however, if factors such as staff availability/weather/time prevent this, the pens and fish would effectively be sampled at random as per the NTS.
6.2 Have the personnel conducting counts had appropriate training in lice recognition and recording?  (Cross reference to training records – Section d)	High	Υ	4.3.84-86, 5.3.53-55	
6.3 Can such personnel demonstrate post training competence?	High	Y	CoGP 4.3.85, 5.3.54	
6.4 Do the sample sizes and methods of sampling match the CoGP suggested protocol (detailed iii – vii)?	Medium	Y	Annex 6	
N.B. Other strategies are acceptable if considered adequate in the control and reduction of sea lice			1	
6.5 Is identification and recording of sea lice count information including species and stages observed to be correct?	High	Y	Annex 6	
Minimum recording requirements within the CoGP and NTS are:				
for Caligus elongatus all identifiable stages and for Lepeophtheirus salmonis chalimus, mobiles and adult females (with or without egg strings) <sup>11</sup>				
6.6 Is the transfer of data from field counts to records observed to be satisfactory?	Medium	Υ	1	
g. Inspection of treatment administration procedures				
7.1 Are treatments considered to be administered in an appropriate competent manner?	High	N/A		
Consider appropriate use of tarpaulins; completion of medication per prescription, correct concentrations, mixing and administrations, appropriate product used				

•		,				
Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary		
7.2 Is accurate information provided to the attending veterinary surgeon for dosage calculation?	High	N/A	CoGP 4.3.131, 5.3.85			
7.3 Are the fish under consideration being given any other medication or are they in a withdrawal period for any other medication?		N/A				
7.4 If so, has the prescribing veterinary surgeon been informed of this?	Medium	N/A	CoGP 4.3.132, 5.3.86			
7.5 Are clear instructions for medication, dosage and administration communicated to the staff responsible for treatment?	High	N/A	CoGP 4.3.133, 5.3.87			

Additional actions	Powers	Comments and advice given or action taken if necessary
h. FHI sea lice counts  If necessary conduct a sea lice count in accordance with the protocol of the CoGP. Indicate where this procedure has been done and make a record of results within the comments box	Power granted under the Act – section 3 (2) (a)	
i. Collection of samples  If necessary collect samples. Indicate if samples have been taken and detail what those samples are and the purpose of their collection	Power granted under the Act – section 3 (3) (a)	
j. Enforcement Notice.  If an enforcement notice has been issued then maintain a copy / duplicate and record detail  Guidance on completing the Enforcement Notice	Power granted under the Act – Section 6 (2)	

- [1] Scottish Statutory Instrument The Fish Farming Businesses (Record Keeping) (Scotland) Order 2008
- [2] A Code of Good Practice for Scottish Finfish Aquaculture
- [3] Water temperature to be measured at the half way point of the depth of the facility containing the fish, or as close to as possible. For SW cage sites one reading per count may be s
- [4] Recording requirements:- for C. elongatus all identifiable stages and for L. salmonis mobiles and adult females (with or without egg strings)
- [5] Area refers to management area as specified within Part 3 of the industry CoGP or as redefined appropriately
- [6] For reference Annex 6 of the CoGP provides the detail of the NTS
- [7] FMA = Farm Management Area
- [8] FMS = Farm Management Statement
- [9] FMAg = Farm Management Agreement
- [10] No further action may be required when answering no to this point and yes to 3.18

Point for consideration Risk level Satisfactory? Requirement Comments and advice given or action taken if necessary

[11] Legal recording requirements within the SSI stipulate – for Caligus elongatus: mobiles; and for Lepeophtheirus salmonis: non-gravid mobiles and gravid females.

[12] VMD - The Veterinary Medicines Regulations 2013 (SI 2013 No 2033)

[13] AFSA - Aquaculture and Fisheries (Scotland) Act 2007 (as amended)

0 1	0000 0477					200				
Case No:	2022-0477	J		Date of v	isit: 04/10/20	022				
Site No:	FS0605	FS0605 Inspector:								
	-									
Results Summary	Freq.	Databas	Date of Notification  Database Insp Phone Insp Writing Insp 2 <sup>nd</sup> Insp							
		Databas	е шэр	FIIOHE	Insp	vviiding	шър	2 <sup>nd</sup> Ins		
	_									
	_									
Report Summary										
Case Type	Date	Insp	2 <sup>nd</sup> Insp							
ECI,CNI,VMD	11/10/2022	2								
ECI,CNI,VMD SLA	11/10/2022	2								
	_									





#### SUMMARY FOR INFORMATION OF SITE OPERATOR

**BUSINESS No** FB0119 **DATE OF VISIT** 04/10/2022

SITE NO FS0605 SITE NAME Creag an T'Sagairt (Loch Hourn)

Case No 20220477 Inspector

#### **ENHANCED SEA LICE INSPECTION**

An enhanced sea lice inspection to ascertain the levels of sea lice and for assessing the measures in place for the prevention, control and reduction of sea lice was conducted in accordance with the Aquaculture and Fisheries (Scotland) Act 2007.

The visit consisted of an inspection of records with regards to sea lice, site procedures with regards to sea lice and the provision of advice.

# a) Inspection of sea lice records

The site meets the requirement of current Scottish industry best practice. There were no recommendations made and no further action is required.

## b) Inspection of records relating to treatment and control of sea lice

The site meets the requirement of current Scottish industry best practice. There were no recommendations made and no further action is required.

# c) Inspection of records relating to farm management groups and area management agreements.

The site meets the requirement of current Scottish industry best practice. No recommendations made and no further action is required.

## d) Inspection of records relating to training and procedures

The site meets the requirement of current Scottish industry best practice. There were no recommendations made or further action required.

# e) Inspection of site and site stock

The site meets the requirement of current Scottish industry best practice. No recommendations made or further action required.

# f) Inspection of farm count procedures

An inspection of site staff conducting and recording a sea lice count was carried out. This met the requirements of The Fish Farming Business (Record Keeping) (Scotland) Order 2008 and CoGP. No further recommendations or further action required.

# g) Inspection of treatment administration procedures

No treatments were being administered at the time of inspection therefore, an appropriate assessment could not be made on administration procedures.

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



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>





#### SUMMARY FOR INFORMATION OF SITE OPERATOR

**BUSINESS No** FB0119 **DATE OF VISIT** 04/10/2022

SITE NO FS0605 SITE NAME Creag an T'Sagairt (Loch Hourn)

Case No 20220477 INSPECTOR

# Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

All epidemiological units were inspected. 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.

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 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.

An enhanced sea lice inspection was conducted. A separate report will be issued in due course.

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



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

FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020						
Case No: 2022-0479			Date of visit: 05/10/2022						
Time spent on site:	1	Main Inspecto	r:						
Site No: FS1333 Business No: FB0169	Site Name: Business Name:	Applecross Incubation Unit The Scottish Salmon Company	/						
Case Types: 1 ECI 2	CNI 3	4 5	6						
Water Temp (°C): 7	Thermometer No:	Site	FHI 045 completed						
Observations:	Region: HI	Water type: F	CoGP MA:						
Dead/weak/abnormally behaving fish present?  Clinical signs of disease observed?  Gross pathology observed?  Diagnostic samples taken?  If yes, see additional information/clinical score sheet.  If yes, see additional information/clinical score sheet.  If yes, see additional information/clinical score sheet.									
UNI/REG only - if unable to carry	out intended visit deta	il reason below:							

# **Additional Case Information:**

Site thermometer used due to biosecurity restrictions.

FHI 059, Version 13	<b>;</b>		Issu		Date of issue: 12/05/2020			
Case No:	2022-0479		Site No:	FS1333				
Date of Visit:		05/10/2022	]		Inspector(s):			
Registration/Author	orisation Deta	iils						
_			ite representa	ative?			Υ	
2. Changes made to	o details?						Υ	
Site Details (includ	de cleaner fis	h for all secti	ions)					
Total No facilities				cked	7	No facilitie	s inspected	10
Species	SAL							
Age group								
No Fish								
Mean Fish Wt								
Next Fallow Date (S		11/October		Next Input Da	ite (Site)	Not certain	but likely Jar	nuarv
				•	• '			N
If yes, detail:					, ,	\	,	
2. Date of last inspectations. Are records completed are movement responsible. Are records completed are health certification. Are any movement of the seconds of the seconds. Are any movement of the seconds.	ection: plete and corrected available plete and corrected available plete and corrected at the corrected available plete and corrected available plete and corrected available pletem in place for introduction and corrected available pletem in place for introduction available pletem in place for introduction and corrected available pletem in place for introduction available pletem in place for introduction and corrected available pletem in place for introduction available pletem in place for int	ectly entered? e for dead fis ectly entered? luctions (outw t by (or on bel or maintenance	h and waste? rith GB) availa	able? usiness (not us	-		09/11/2021	Y Y Y Y
•		•			Whole fish -	Dundas Che	emicals	
If other detail:								
3. Mortality records	complete and	correctly ente	ered?					Y
4. Recent mortality	(last 4 wks):		28327/site la	ast four week, (	these are ma	inly deformit	ies so actually	/ culls)
5. Evidence of rece	nt increased/a	typical mortal	ities?					N
If yes, facility nos/no	o mortality per	facility/no sto	ck per facility	/reason:				
6. Any other peaks	in mortality du	ring period ch	ecked?					N
If yes, detail:								
· ·	istration/Authorisation Details  Jasiness/site details summary checked by site representative?  Poetails (include cleaner fish for all sections)  I No facilities  SAL  group  2023  Ish  1,705,527  In Fish Wt  1,002g  Fallow Date (Site)  Fallow Date (Site)  In Gasal to History  I Histor		N/A					
If yes, detail action:	vents' been re	norted to EUI	2 If no enter	datails on mort	ality events of	neet		N/A
o. Have mortality e	vonta pecirite	ported to 1 TII	: ii iio, eiilei	actails off filloft	anty events si	icet.		14//

Treetments and Madicines Decords	
Treatments and Medicines Records  1. Recent treatments (see comment)?	N
If yes, detail:	.,
If other, detail:	
2. Medicines records available for inspection?	N/A
3. Are records complete and correctly entered?	1971
4. Are fish in a withdrawal period?	N/A
5. If yes, what treatment(s)?	14// (
If other, detail:	
6. Are medicines stored appropriately?	Y
o. Are medianes stored appropriately:	
Biosecurity Records	
Biosecurity records available for inspection?	V
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	У
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any	
increased (unexplained) mortality at the site been included?	У
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease	9
is detected been included and how and when that will be notified to Scottish Ministers?	У
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher	у
health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	У
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	У
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	У
If no, detail:	
Results of Surveillance	
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	N
2. If yes, are results available for inspection?	N/A
3. Any significant results?	N/A
If yes, detail (if not detailed under recent disease problems).	
December the short in the state of the state	
Records checked between: 8/11/2021 to 5/10/2022	

FHI 059, Version 13				Date of	of issue	: 12/05/2020	
Case Number:	2022-0479		Site No:	FS1333		Insp:	
Date of Visit	05/10/2022		No of m	ovements/s	upp./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	
with GB) of susceptible species		novements on from equivalent zone or	0	0	4.0	26	0
Species	Number of sup	ncluding third country	0		18 10	26 14	5
Movements off	Frequency of m		0		6	10	3
Exposure via water	Tramber of des	Site contacts			6-10		9
Water contacts with other farms (holding species	Farm is protect disinfection or l	ed (secure water supply through corehole)	0				0
susceptible to same diseases)	Farm is on-line	or in a coastal zone with category I	1	2	4		
		or in a coastal zone with category III n or within 1 tidal excursion	1	3	6		
		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	plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	0				0
	Processing own	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent statu	from zone or compartment of us	4				
	Processing fish	from Category III farm	8				
	Processing fish	from Category V 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	Inpasteurised feed	0	: 			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		1
	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		0				0
	No		2				
					Total		24
					Rank		MEDIUM

Case No:	2022-0479		Site No:	FS1333	]
Sea Lice Inspection (	Seawater Sites Only)				
• •	nced sea lice problems in the	previous 4 vears?			
·	Nanagement Area (or equivale	•	on a single v	ear class basis?	
	access to a range of licenced				
azamethiphos and ema	amectin benzoate) as well as I in a reasonable period of tim	access to suitable biological			
4. Is there a signed do Management Area (or	cumented farm management equivalent)?	agreement or statement rele	vant to the s	ite and CoGP Farm	
5. Are sea lice count re	ecords available for inspection	n? (Legal SSI, CoGP Annex 6	6)		
6. Do records adequate	ely reflect the required standa	rd specified in the SSI and th	ne CoGP? (L	egal SSI, CoGP Anr	nex 6)
7. Are sea lice ( <i>L. salm</i> records are inspected?	nonis) record levels below the (CoGP Annex 6)	suggested criteria for treatm	nent in the Co	oGP during the perio	d that
_	female sea lice ( <i>L. salmonis</i> ) 0/6/19) during the period that	•	level of 3 or a	above (prior to w/b 1	0/6/19) or
If yes, have these beer	reported to the Fish Health I	nspectorate? If no, FHI see of	comment.		
9. Is C. elongatus infe	station at a level which is con-	sidered to cause significant v	welfare probl	ems? (CoGP 4.3.81,	5.3.50)
	reatments been administered reatment or where <i>C. elongat</i>				
11. Has any other action	on been taken (where applica	ble)?			
12. Have therapeutic tr	reatments or the actions taker	n had a significant impact upo	on the lice le	vels recorded?	
13. Are treatments, wh	ere conducted, carried out in	cooperation between particip	oating farms?	?	
14. Is there a harvesting sea lice?	ng strategy for the site, where	fewer populations or part pop	pulations are	e held without treatmo	ent for
	cific written lice management pscalation of a sea lice infestat		scribing set a	actions to deal with re	ecognised
16. Do the sea lice leve	els observed on stocks reflect	sea lice count data? If no pl	ease detail r	easons.	
Cantainment Inchest	lan				
Containment Inspect	nced equipment damage due	to predators in the current of	r previous pr	oduction evelog?	N
·	ce to mitigate against the pre	•	-		V
Site indoors	to mingate against the pre	dation expenenced on site: (	(Detail Delow	')	, .
If other, detail below:					
ii otilor, dotali bolow.					
3. Have escape incide	ents or events been experience	ed on or in the vicinity of the	site since th	e last FHI inspection	? N
·	estions 4 – 9. If No skip to qu	•		·	
	ported to Scottish Ministers?				
	ported to local DSFB forthwith	(where they exist)? (CoGP -	- 4.4.37, 5.4	1.17)	
	ported to the SSPO and local	, , ,		•	5.4.17)
7. Were methods (if ar	ny) used to recover escapees	? If yes give detail			
0.14 311 3		20 1 2 2 2 2 2 2 2			
8. If gill nets were depl Ministers? (Legal, CoG	oyed was this action agreed v SP – 4.4.38, 5.4.18)	vitn local wild fish interests al	nd was perm	nission given by Scot	usn
9. What action was tak	en to prevent and minimise the	ne risk of further escapes? (N	Not covered i	n code but could	
be considered unde	r satisfactory measures of	the Act)			
10. Is the site inspecte	d as satisfactory with regards	to containment? If no, please	e detail reas	on(s)	Y

Issued by: FHI

FHI 059, Version 13

Date of issue: 12/05/2020

Case No:	2022-0479			Date of visit:	05/10/2022						
Site No:	FS1333	1		Inspector:							
Results Summary	Freq.			Date of Notification							
, , , , , , , , , , , , , , , , , , , ,		Database	Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp			
Report Summary											
Case Type	Date	Insp	2 <sup>nd</sup> Insp								
ECI,CNI	11/10/2022										





#### SUMMARY FOR INFORMATION OF SITE OPERATOR

**BUSINESS No** FB0169 **DATE OF VISIT** 05/10/2022

SITE NO FS1333 SITE NAME Applecross Incubation Unit

Case No 20220479 Inspector

# Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

All epidemiological units were inspected. 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.

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

Mortality records were inspected and found to be adequately maintained.

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

No animal health surveillance had been carried out on behalf of the business and/or Marine Scotland since the last Marine Scotland Inspection.

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

# Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

The site was also inspected in accordance with the Aquaculture and Fisheries (Scotland) Act 2007 with respect to section 5 regarding containment and escapes.

On this occasion the site was found to be satisfactory.

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



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

FHI 059, Version 13	ls	ssued by: FHI	Date of issue: 12/05/2020							
Case No: 2022-0481			Date of visit: 06/10/2022							
Time spent on site:	5 Hours	Main Inspe	ector:							
Site No: FS0865 Business No: FB0119	Site Name: Business Name:	Marulaig Bay Mowi Scotland Ltd								
Case Types: 1 DIA	2 VMD 3 REP	4 5	6							
Water Temp (°C): 12.7	Thermometer No:	T309	FHI 045 completed N/A							
Observations:	Region: WI	Water type: S	CoGP MA W-20							
Dead/weak/abnormally behaving fish present?  Clinical signs of disease observed?  Gross pathology observed?  Diagnostic samples taken?  If yes, see additional information/clinical score sheet.  Y  If yes, see additional information/clinical score sheet.  Y  If yes, see additional information/clinical score sheet.  Y										
UNI/REG only - if unable to carry out intended visit detail reason below:										

#### **Additional Case Information:**

Remote inspection carried out by on 05/10/2022.

Mortalities reported to FHI - 2022

Week 36 1.05% (8,666) Week 37 3.18% (22,972) Week 38 21.22% (139,023)

Gill health, jellyfish insult although nothing observed over trigger levels.

230,000 moved to Grey Horse Channel week 36/37 to thin site down. Freshwater wellboat (about 4,500 lost in transport). Risk assessment checked. Grey Horse Channel was fallow at the time of movement. The fish that were moved have improved dramatically. Mortalities were down to about 10 per pen 2 days after transfer.

Week 37 freshwater and peroxide treatments. Pens that were treated improved but those that weren't treated then spiked in week 38. Whole site completed in week 38. Mortalities have improved in week 39.

Lumpfish farmed from Dorset Cleaner fish Ltd.

Cleaner fish mortality not counted in the past 3 weeks due to Salmon mass mortality. Lumpfish mortality in week 36 (last recorded) was 0.31%.

Physical site inspection and sampling conducted by supervised by on 06/10/2022. F1-F5 samples by supervised by sup

From the physical inspection of the stock, fish were observed to be quite lethargic in most pens. Few moribund fish were observed across the site. 5 fish were sampled for diagnostic purposes, fish were also removed for VMD sampling. The gills from the fish removed for sampling were observed to be very pale with shortened and ragged filaments.

FHI 059, Version 13		_	Issu	ed by: FHI	_		Date of issue	e: 12/05/2020
Case No:	2022-0481		Site No:	FS0865				
Date of Visit:		06/10/2022	3		Inspector(s):			l
Registration/Autho								
1. Business/site deta	ails summary	checked by s	site representa	ative?			Y	
2. Changes made to	details?						N	
Site Details (includ	e cleaner fis	h for all sect				_		
Total No facilities		12	Facilities sto	cked	7	No facilitie	s inspected	12
Species	SAL	LUM						
Age group	Q4 2021	21 Farmed						
No Fish	385,480	111,000						
Mean Fish Wt	2.6kg	Mixed						
Next Fallow Date (S	ite)	May 2023		Next Input Da	ite (Site)	November	2023	
Recent (last 4 wks)	disease probl	ems?		Y	Any escapes	(since last	visit)?	N
If yes, detail:	AGD, PGD,	Jellyfish insul	t.					
Movement Records	5							
Movement record		r inspection?						Y
2. Date of last inspe		поросион.					22/06/2021	
3. Are records comp		ectly entered?	?				22/00/2021	N
4. Are movement re		•		,				Y
5. Are records comp								
6. Are health certific				able?				N/A
Transport Bosords							'	
Transport Records		by /or on bo	half) of the hi	usinoss (not us	ing a CTD\2			
1. Are any movemen					_			
If yes, is there a syst	tem in place t	or maintenan	ice of transpol	rtation records	<i>!</i>			
Mortality Records								
1. Mortality records a		•						Y
2. How are mortalities					Other (detail)			
If other detail:				hite shore Co	ckles.			
3. Mortality records	complete and	correctly enter	ered?					Y
				eek 39 1.42%,			7 3.18%, wee	k 36 1.05%
<ol><li>Recent mortality (</li></ol>	last 4 wks):		LUM - Week	36 0.31% (Se	e Additional in	nformation)		
5. Evidence of recer	nt increased/a	typical mortal	lities?					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 (u	ınexplained) i	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, enter	details on mort	ality events sl	neet.		Y

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Treatments and Medicines Records  1. Recent treatments (see comment)?  If yes, detail:  H2O2		Y
If other, detail: Peroxide  2. Medicines records available for inspection?		Y
<ul><li>3. Are records complete and correctly entered?</li><li>4. Are fish in a withdrawal period?</li></ul>		Y
5. If yes, what treatment(s)?  If other, detail:		
6. Are medicines stored appropriately?		Y

If other, detail:	Peroxide		
2. Medicines records	s available for inspection?		Y
3. Are records comp	elete and correctly entered?		Y
4. Are fish in a withd	•		N
5. If yes, what treatm	nent(s)?		
If other, detail:			
6. Are medicines sto	red appropriately?		Y
2. Has the manner a	ds available for inspection? and frequency of mortality removal, record	ding and safe disposal been considered?	
	ined) mortality at the site been included?		
, ,	•	ence or suspicion of the presence of a listed disease	
	luded and <i>how</i> and <i>when</i> that will be not		
5. Has the health sta	atus of aquaculture animals being stocke	d on the farm site been covered (equal or higher	
health status, certific	ation if required)?		
	•	ed between each epidemiological unit to minimise	
	· · · · · · · · · · · · · · · · · · ·	sitors, equipment, live or dead fish etc.)?	
aquaculture animals		ce to maintain the physical containment of	
•	rity procedures been adequately impleme	onted on site?	
If no, detail:	ity procedures been adequately impleme	anted on site :	
ii iio, actaii.			
Results of Surveilla	ance		
1. Has any animal he	ealth surveillance been carried out by, or	on behalf of, the business?	Y
2. If yes, are results	available for inspection?		Y
3. Any significant res	sults?		Y
If yes, detail (if not d	etailed under recent disease problems).	Gill issues	

П	HI 059, Version 13		issued by: FHI										
	Case no:	2022-04	181	Site No		FS0865			Date of Samplin		06/1	10/2022	06/
	Priority samples:	VI		ВА		PA		MG		g. HI			
	Time sampling starts/ends: Environmental conditions:		0:00 Indoors		0:00	]   3	Inspecto	or:		l 5	VMD No	). <b>[</b>	20
	Summary samples	HIST		ВА	Y	MG		l √I		PA		Total Sa	mples
Α	dd Fish/Pools - click  Pool/Fish No	F1	F2	F3	F4	F5							
Н	Fish nos	Γ I	2	3	4	5	6	7	8	9			
	Pool Group	1		3	4	3	U	1	0	9			
	Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL			
	Average weight	1.7Kg	2Kg		2.5Kg	2.2Kg		2.5kg		2.5kg			
	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	SW			
Stock Details		Glenfinnan	Glenfinnan	Glenfinnan	Glenfinnan	Glenfinnan	Loch Ness	Glenfinnan	Glenfinnan	Glenfinnan			
S	Facility No	12	11	10	12	8	1	8	9	10			

Total Tests assigned 3	10/2022 Additional Sample Information:														
Total Tests assigned 3															
	5 Total Tests assigned 3														

FHI 059, Version 13 Issued by: FHI Date of issue: 12/05/2020

Case no:	2022-0481		Site No	):	FS0865		Method of killing: Percussive				
Date of visit:	06/10/2022		Inspec	tor(s):				s	heet Re	elevant:	Υ
S for strong present	ce: <b>M</b> for medium presence: <b>W</b> for v	veak pres	ence								
Fish Number		F1	F2	F3	F4	F5					
	r death (if > 45 minutes)	40min	55min	110min	125min	140min					
External Signs											
Behaviour	Moribund										
	Lethargic	M	М	M	М	M					
	Hanging vertical										
	Spiralling										
	Flashing										
	Loss of equilibrium										
Body	Dark				M						
	Distended abdomen										
	Anorexic										
0	Scale Oedema										
Opercula	Shortened										
Haamerrhaning	Flared										
Haemorrhaging	Throat Ventrum										
	Base of fins										
	Elsewhere										
Eyes	Exophthalmic										
_,	Enophthalmic (sunken)										
	Cataract										
	Haemorrhagic										
Gills	Pale	S	S	S	S	S					
	Zoned										
	Necrotic	М		М		W					
Lesions	Flank										
	Elsewhere										
Vent	Inflamed										
	Trailing faeces										
Lice Load	Estimate numbers	10	0	15	3	5					
Internal Signs											
Ascites	Clear	NA.	187								
	Bloody	М	W		М	S					
Oedema	In tissues										
Heart	Pale/anaemic										
	Granulomas Deformed										
Liver	Petechial haem										
Liver	Gross haem										
	Tissue breakdown										
	Enlarged										
	Colour number(s)	3	5	6	6	5					
	Granulomas										
	Lesions										
Pyloric caeca	Petechial haem										
	Tubules mauve										
	Lack of fat										
Spleen	Enlarged										
	Granulomas										
Gut	No food present										
	Yellow pseudo-faeces		S	M	S	S					
	External haem										
	Internal haem										
Body wall	Haemorrhaging										
Swim bladder	Haemorrhaging										
12: 1	Fluid filled										
Kidney	Swollen										
	Grey										
	Granular										
Canaus	Liquefied										
General	Parasites present										

Case no: 2022-0481

Date of visit: 06/10/2022

Date of visit.	00/10/202	<u>4</u>						
<b>S</b> for strong preser	nce: M for medium presence: W fo	ги						
Fish Number	·		$\overline{}$					
	er death (if > 45 minutes)							
External Signs	or addit (ii ii 40 iiiiiatoo)							
Behaviour	Moribund							
	Lethargic							
	Hanging vertical							
	Spiralling		_	$\overline{}$				
	Flashing							
	Loss of equilibrium							
Body	Dark							
	Distended abdomen							
	Anorexic							
	Scale Oedema							
Opercula	Shortened							
•	Flared							
Haemorrhaging	Throat							
	Ventrum							
	Base of fins							
	Elsewhere							
Eyes	Exophthalmic							
	Enophthalmic (sunken)							
	Cataract							
	Haemorrhagic							
Gills	Pale							
	Zoned							
	Necrotic							
Lesions	Flank							
	Elsewhere							
Vent	Inflamed							
	Trailing faeces							
Lice Load	Estimate numbers							
Internal Signs								
Ascites	Clear							
	Bloody							
Oedema	In tissues							
Heart	Pale/anaemic							
	Granulomas							
	Deformed							
Liver	Petechial haem							
	Gross haem							
	Tissue breakdown							
	Enlarged							
	Colour number(s)							
	Granulomas							
	Lesions							
Pyloric caeca	Petechial haem							
	Tubules mauve							
	Lack of fat							
Spleen	Enlarged							
	Granulomas							
Gut	No food present							
	Yellow pseudo-faeces							
	External haem							
	Internal haem							
Body wall	Haemorrhaging							
Swim bladder	Haemorrhaging							
	Fluid filled							
Kidney	Swollen							
	Grey							
	Granular							
	Liquefied							
General	Parasites present							
	Anaemia							

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Additional comments:		
Gills from F1, F3 and F5 were ragged with	shortened filaments. See photos.	
		1
		1

Site No: FS0865

Case No: 2022-0481

Nature of non-compliance:

Action taken (FHI):

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

Case No: 2022-0481 Date of visit: 06/10/2022 Site No: FS0865 Inspector: Results Summary **Date of Notification** Freq. Insp Writing 2<sup>nd</sup> Insp Database Insp Phone Insp MG - IPN 13/10/2022 13/10/2022 03/11/2022 1/5 13/10/2022 13/10/2022 MG- PARA THER 5/5 03/11/2022 13/10/2022 13/10/2022 MG - SAL POX 5/5 03/11/2022 03/11/2022 MG - SAV 3/5 13/10/2022 13/10/2022 MG - AGDQ 5/5 03/11/2022 13/10/2022 13/10/2022 13/10/2022 MG-IHN 0/5 13/10/2022 03/11/2022 03/11/2022 MG-ISA 0/5 13/10/2022 13/10/2022 0/5 13/10/2022 03/11/2022 MG- PMCV 13/10/2022 MG-VHS 0/5 13/10/2022 13/10/2022 03/11/2022 2/5 20/10/2022 20/10/2022 03/11/2022 VSPE (Isolate A) VSPE (Isolate B) 2/5 20/10/2022 20/10/2022 03/11/2022 02/11/2022 02/11/2022 MG - PRV 03/11/2022 1/1 03/11/2022 **GPAT** 5/5 02/11/2022 02/11/2022 **AMGD** 4/5 03/11/2022 02/11/2022 02/11/2022 **CGDH** 5/5 02/11/2022 02/11/2022 03/11/2022 03/11/2022 **HPAT** 3/5 02/11/2022 02/11/2022 03/11/2022 LPAT 4/5 02/11/2022 02/11/2022 02/11/2022 **PMCH** 1/5 02/11/2022 03/11/2022 Report Summary 2<sup>nd</sup> Insp Case Type Date Insp 20/10/2022 VMD DIA, REP 03/11/2022





#### SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 FB0119
 DATE of VISIT
 06/10/2022

 SITE NO
 FS0865
 SITE NAME
 Marulaig Bay

 CASE NO
 20220481
 INSPECTOR

# **Section 1: Summary**

The site was inspected due to sustained mortality reports above the reporting criteria attributed to gill issues. Five fish were selected for diagnostic sampling.

Histopathology examination revealed mild to marked, multifocal to diffuse, chronic hyperplasic branchitis associated with complex gill issues and vascular disturbance. Amoebic gill disease was also observed. The fish also displayed myocarditis. Mild to moderate, multifocal to coalescence hepatic necrosis was observed.

Two separate *Vibrio* spp. were identified on plates taken from kidney material of fish 2 and 5. The level and purity of growth would not suggest they would be implicated as the primary source of morbidity.

Samples tested positive for salmonid alphavirus (3/5), infectious pancreatic necrosis virus (IPNV) (1/5) and piscine reovirus (1/1).

Samples also tested positive for gill related pathogens: *Paranucleospora theridion* (5/5), salmon gill poxvirus (SGPV) (5/5) and *Neoparamoeba perurans* (AGD) (5/5).

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 inspected due to sustained mortality reports above the reporting criteria attributed to gill issues and a suspected jellyfish bloom. At the time of the visit the site was stocked with 2021 Q4 Atlantic salmon at an average weight of 2.6kg and farmed lumpfish. Lethargic fish were observed deep in the water in the majority of pens on site. Five fish were selected for diagnostic sampling.

All five fish sampled displayed lethargic behaviour prior to removal from the pens. Externally, all five fish had pale gills, with necrotic patches and shortened filaments on the gills in F1, F3 and F5. F4 had a dark body colour. Lice load was 10 lice all stages for F1, 0 for F2, 15 lice all stages for F3, 3 lice all stages for F4 and 5 lice all stages for F5.

Internally, bloody ascites was evident in F1-F2 and F4-F5. The liver in F1 was pale and F2-F5 had yellow pseudo-faeces.

## <u>Samples</u>

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

Fish number	Facility number	Species	Stage	Origin
F1 & F4	12	Atlantic salmon	2021 Q4, 2.6kg	Glenfinnan
F2	11	Atlantic salmon	2021 Q4, 2.6kg	Glenfinnan
F3	10	Atlantic salmon	2021 Q4, 2.6kg	Glenfinnan
F5	8	Atlantic salmon	2021 Q4, 2.6kg	Glenfinnan

# Results

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

The following bacteria were isolated:

- Vibrio sp. (Isolate A) found in fish: F2 &F5 (Kidney)
- Vibrio sp. (Isolate B) found in fish: F2 &F5 (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).

Infectious pancreatic necrosis virus (IPNV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	-	-	-	-	Negative
F2	-	-	-	-	Negative
F3	20.03	36.85	35.94	37.06	POSITIVE
F4	-	-	-	-	Negative
F5	-	-	-	-	Negative

Salmonid alphavirus (SAV)

Fish Number	Endogenous control Cp value		Cp Values	Reported Result (PCR)	
F1	20.36	35.51	34.27	34.88	POSITIVE
F2	19.80	35.36	34.85	34.77	POSITIVE
F3	-	-	-	-	Negative
F4	-	-	-	-	Negative
F5	20.36	30.83	30.82	30.87	POSITIVE

Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	18.58	31.81	31.92	32.02	POSITIVE
F2	18.69	32.16	32.22	32.45	POSITIVE
F3	19.19	29.18	28.85	28.84	POSITIVE
F4	19.27	28.15	28.39	28.31	POSITIVE
F5	18.66	24.32	24.42	24.33	POSITIVE

#### Piscine reovirus (PRV)

Fish Number	Endogenous control Cp value		Cp Values	Reported Result (PCR)	
F1	19.90	30.69	30.67	31.08	POSITIVE

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), infectious salmon anaemia virus (ISAV), piscine myocarditis virus (PMCV) and viral haemorrhagic septicemia virus (VHSV).

**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	18.58	28.27	28.52	28.54	POSITIVE
F2	18.69	30.45	30.69	30.78	POSITIVE
F3	19.19	30.88	30.66	30.62	POSITIVE
F4	19.27	28.56	28.83	28.77	POSITIVE
F5	18.66	29.76	29.89	29.53	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value		Cp Values	Reported Result (PCR)	
F1	18.58	28.23	28.42	28.35	POSITIVE
F2	18.69	26.96	27.11	26.99	POSITIVE
F3	19.19	27.25	27.45	27.33	POSITIVE
F4	19.27	24.27	23.98	24.01	POSITIVE
F5	18.66	23.37	23.25	23.28	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 by light microscopy revealed the following:

<u>Gill:</u> Lamellar epithelial hyperplasia, hypertrophy and lamellar fusion marked, diffuse (F1) and F2-F5 mild, multifocal. Filament fusion observed in F1. F1 also exhibited foci of dark pink amorphous material (likely fibrin) surrounded by fibrous tissues. F1 & F2 displayed foci of necrosis and R09

haemorrhage on the hyperplasic plaques and lamellar thrombi. Hypertrophic globlet cells and moderate inflammatory cell infiltrate at the centre of gill filament observed in all fish. Few amoeboid cells resembling *Neoparamoeba perurans* observed in F1, F3-F5. F3 reading hindered by autolysis artefacts.

<u>Skin & Muscle:</u> Mild, multifocal inflammatory cell infiltrated and few scattered fibre degeneration observed in the skeletal red muscle (F1).

<u>Heart:</u> F1 displayed foci of cellular infiltration and fibre degeneration at the compact layer and F3 also extended to the atrium. F3 exhibited a focally extended area of fibre degeneration and an increase of collagen accumulation (likely fibrosis) in the ventricle. F3 & F5 displayed a mild epicarditis.

<u>Gut and pyloric caeca:</u> Mild peritonitis (F5). Cell sloughing (potentially associated with post-mortem artefacts) F5.

Pancreas: Within the normal range.

<u>Liver:</u> Hepatocellular necrosis, mild to moderate, multifocal to coalescence (F2 & F5) and foci of haemorrhage noted in F5, some foci hepatocellular vacuolation (macrovisicules) (F1, F3).

Kidney: Within the normal range.

Spleen: Within the 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/publications/fish-health-inspectorate-service-charter/">https://www.gov.scot/publications/fish-health-inspectorate-service-charter/</a>

Date: 03/11/2022





## SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0119
 Date of Visit
 06/10/2022

 Site No
 FS0865
 Site Name
 Marulaig Bay

 Case No
 20220481
 Inspector

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.

In addition, samples were taken for diagnostic purposes. A separate report will be issued detailing the results of these tests.

#### Records

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

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:

 FS numbers must be recorded in the source/destination section of the movement record book, to allow for better traceability of stocks. It was discussed with the site manager that this would be recorded in future. No further action is required.

Date: 20/10/2022

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

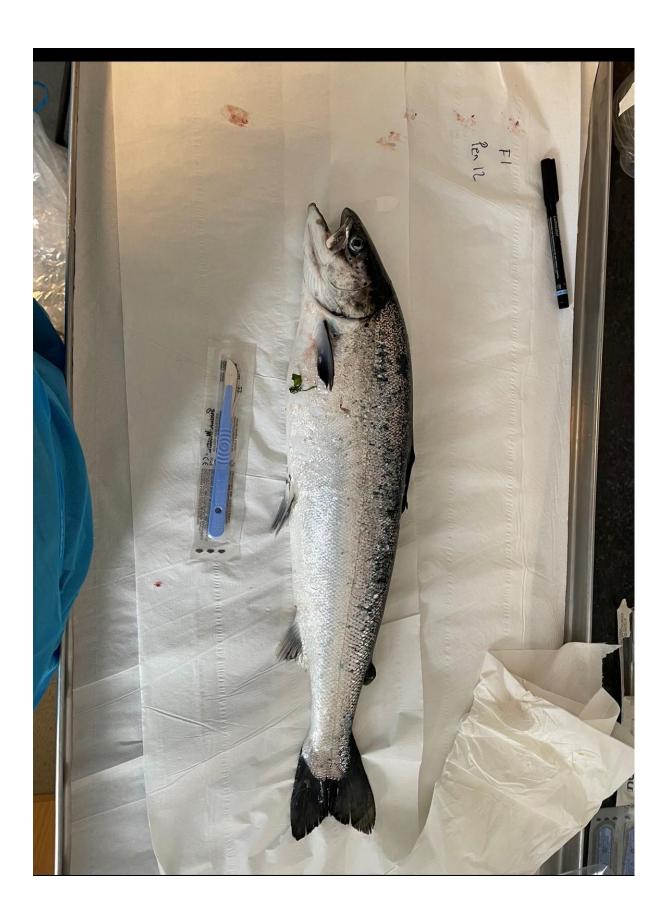
Signed:

Fish Health Inspector

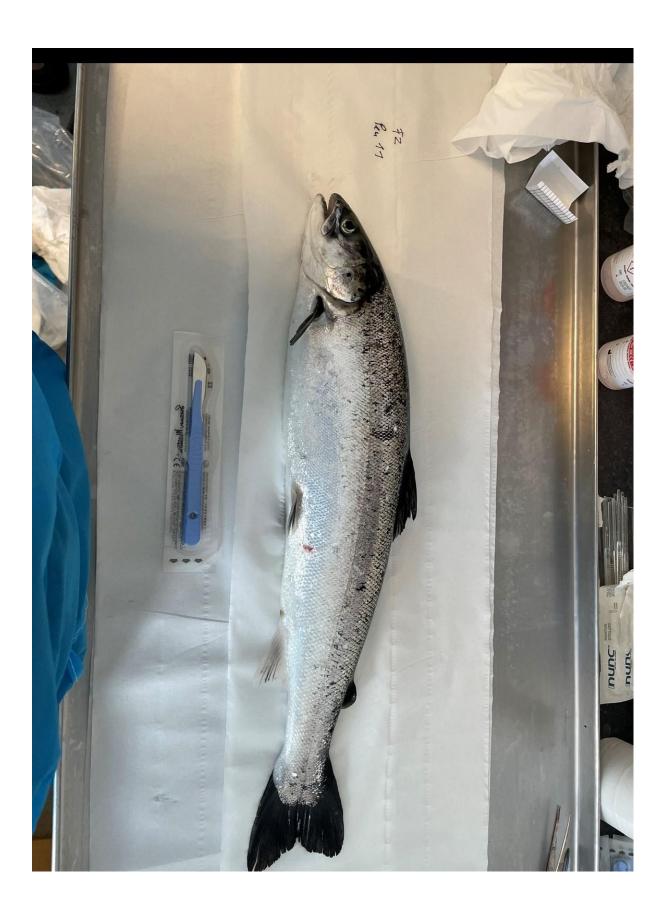
The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/publications/fish-health-inspectorate-service-charter/">https://www.gov.scot/publications/fish-health-inspectorate-service-charter/</a>



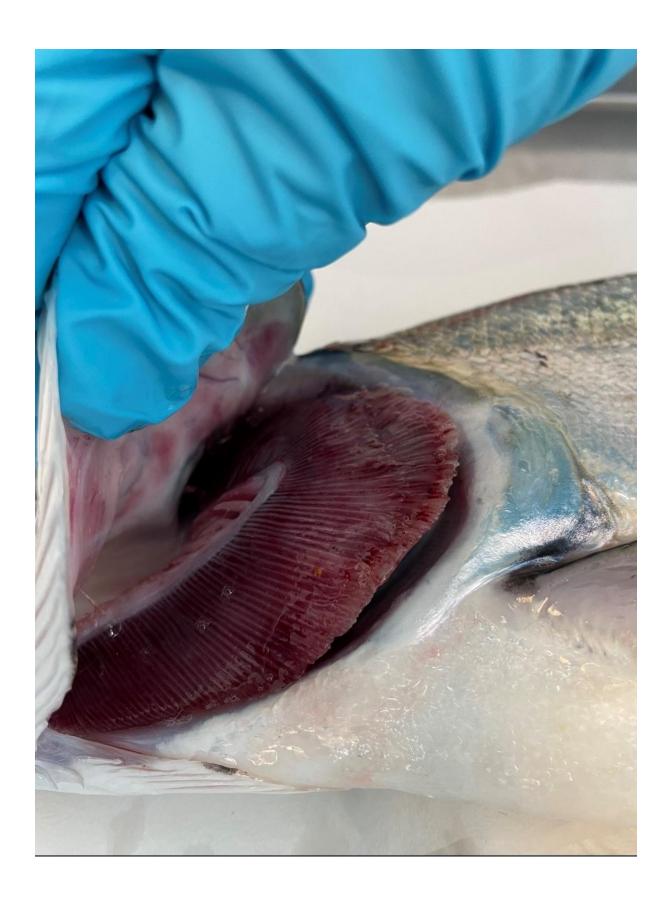






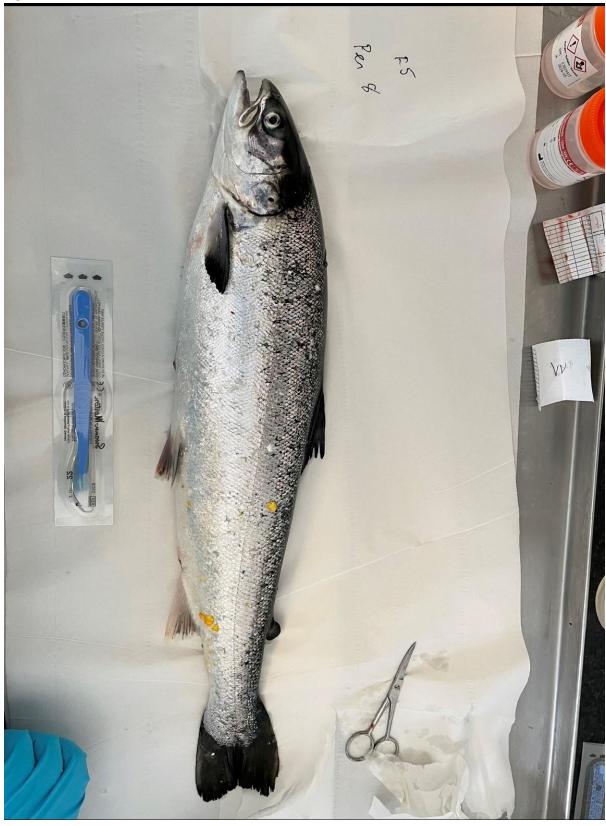




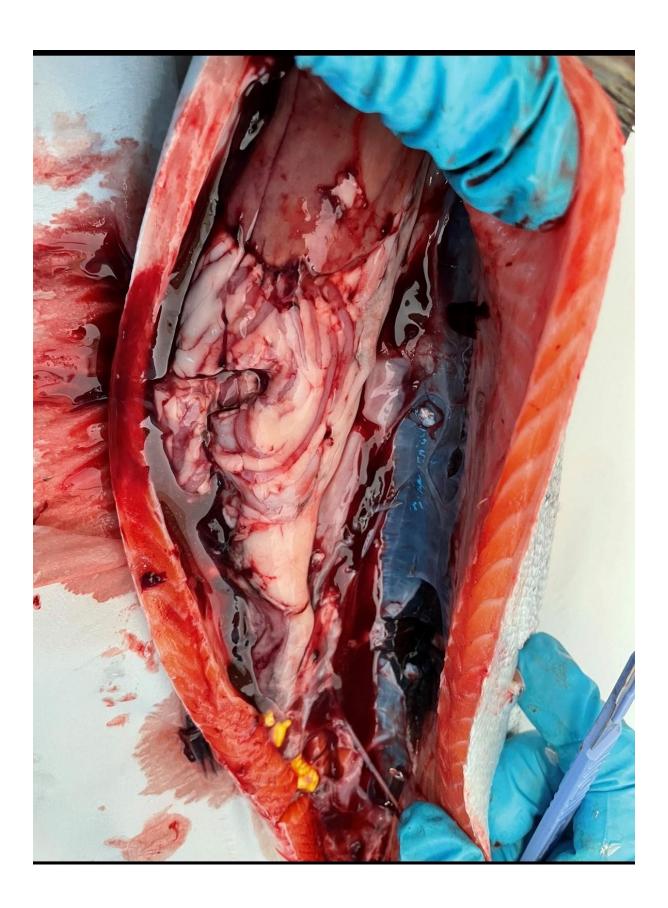












FHI 059, Version 13	!	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2022-0492			Date of visit: 18/10/2022
Time spent on site:	30mins	Main Inspecto	r:
Site No: FS0076 Business No: FB0169	Site Name: Business Name:	Barvas Hatchery The Scottish Salmon Company	,
Case Types: 1 REG	2 3	4 5	6
Water Temp (°C):	Thermometer No:		FHI 045 completed
Observations:	Region: WI	Water type: F	CoGP MA:
Dead/weak/abnormally behavir Clinical signs of disease observed? Gross pathology observed? Diagnostic samples taken?	•	If yes, see additional inform	mation/clinical score sheet. mation/clinical score sheet. mation/clinical score sheet.
UNI/REG only - if unable to car	ry out intended visit detail	I reason below:	

## **Additional Case Information:**

Site confirmed after inspection as fallow. Site is to be inactivated.

Estate correspondent highlighted that they are currently seeking a tenant for the hatchery.

		-			10/10/0								
Case No:	2022-0492	J		Date of vis	sit: 18/10/20	022							
Site No:	FS0076	1		Inspect	or:								
Results Summary	Freq.	Date of Notification											
		Database	e Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Insp					
		-											
	_		_										
	_												
Report Summary													
Case Type	Date	Insp	2 <sup>nd</sup> Insp										
REG	27/10/2022												
	_	-											
		-											
	+												





# FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0169 Date of Visit 18/10/2022
Site No FS0076 Site Name Barvas Hatchery
Case No 20220492 Inspector

The above site was inspected in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

On this occasion, the site was found to be fallow. There are no plans to restock the site, therefore the status will be change to inactive and will be removed from the lists of sites that the business is authorised to operate at.

Please contact us if the site is to be restocked or transferred to another business 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: 27/10/2022

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>

FHI 059, Version 13	Isso	ued by: FHI	Date of issue: 12/05/2020
Case No: 2022-0495			Date of visit: 17/10/2022
Time spent on site:	.5hrs	Main Inspecto	or:
Site No: FS0511 Business No: FB0297	Site Name: Business Name:	Forgue Forgue Fish Farm	
Case Types: 1 ECI	2 CNI 3 VMD	4 5	6
Water Temp (°C): 9.4	Thermometer No:	T152	FHI 045 completed
Observations:	Region: GR	Water type: F	CoGP MA:
Dead/weak/abnormally behaving	•		mation/clinical score sheet.
Clinical signs of disease observed?  Gross pathology observed?	ad?		mation/clinical score sheet. mation/clinical score sheet.
Diagnostic samples taken?		N yee, eee additional line.	matter, our real cools crises.
UNI/REG only - if unable to carry	out intended visit detail re	ason below:	

#### **Additional Case Information:**

Site receives fish from Northern Trout, Westmill FS0606, College Mill FS0052 and Selcoth FS0680.

Fish have been performing well and have only been treated for Costia with a formalin bath twice since the last inspection.

Site uses lime to clean the ponds.

Site has a perimeter fence surrounding all the outdoor facilities. Rats are present at the site, but a contractor is hired to control these.

Water was extremely dirty from run off so fish were difficult to observe. Site staff used a hand net to catch a sample of fish from each facility for visual inspection. Fish appeared in good physical health.

One mortality was observed across the site. Fish sampled for VMD appeared healthy externally and internally.

FHI 059, Version 13			Is	sued by: FHI			Date of issu	ie: 12/05	5/2020
Case No:	2022-049	5	Site No:	FS05	511				
Date of Visit:		17/10/20	)22		Inspector(s	):			
Registration/Author	risation D	etails							
1. Business/site det			y site represei	ntative?			Υ	1	
2. Changes made to	details?						Υ	]	
Site Details (includ	le cleaner	fish for all se	ections)						
Total No facilities		16	Facilities s	stocked	16	No facilitie	es inspected	16	
Species	RTR	RTR	RTR	TRO	ВСН				
Age group	2020	2021	2022	2022	2021				
No Fish	525	30,833	20,000	11,583	3,000				
Mean Fish Wt	2.7kg	331g	17.5g	12.5g	250g				
Next Fallow Date (S	lite)	No plan.		Next Input	Date (Site)	Oct 22			
Recent (last 4 wks)	disease pro	oblems?			N Any escape	es (since last	visit)?		N
4. Are movement re 5. Are records comp 6. Are health certific  Transport Records 1. Are any moveme If yes, is there a sys	olete and co cates for int s nts carried	orrectly entere roductions (or out by (or on	ed? utwith GB) ava behalf) of the	ailable? business (not	•			E	N/A N/A N/A
Mortality Records									
1. Mortality records	available fo	or inspection?							Y
2. How are mortaliti	es disposed	d of?			Domestic w	/aste - <25kg		•	
If other detail:									
3. Mortality records	•	•	entered?						Y
4. Recent mortality	•			fish, Wk40: 20	6 fish, Wk39: 2	4 fish, Wk38:	9 fish		
<ol><li>Evidence of received</li></ol>		• •							N
If yes, facility nos/no	mortality p	per facility/no	stock per facil	ity/reason:					
6. Any other peaks	n mortality	during period	I checked?						N
If yes, detail: 7. Have increased (	unexplaine	d) mortalities	been reported	to vet or FHI	?				N/A
If yes, detail action: 8. Have 'mortality ev	rents' heen	reported to F	HI2 If no ente	er details on m	ortality events	sheet			N/A
o. Have mortality ev	CINS DEELI	reported to r	111: 11 110, <del>c</del> 1110	or details off fi	ioriality events	JIICCL.			. 4// \

Treatments and Medicines Records	
1. Recent treatments (see comment)?	N
If yes, detail:	
If other, detail:	
2. Medicines records available for inspection?	Y
3. Are records complete and correctly entered?	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?	Y
	Ť
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any	Y
increased (unexplained) mortality at the site been included?	
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disc	ease Y
is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?	<u> </u>
Thealth Status, Certification in required):	
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimis	Y
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	Y
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	Y
If no, detail:	
Results of Surveillance	
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	N
2. If yes, are results available for inspection?	
3. Any significant results?	
If yes, detail (if not detailed under recent disease problems).	
Records checked between: 11/11/2020 - 17/10/2022	

FHI 059, Version 13		Issued by: FHI			Date	of issue	: 12/05/2020
Case Number:	2022-0495		Site No:	FS0511		Insp:	
Date of Visit	17/10/2022		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	
ороскоо Портинати	Number of sup	ncluding third country	0		10	14	0
Movements off	Frequency of m		0		ļ	10	10
Wovernerits on	Number of des		0		6	10	10
Exposure via water		Site contacts	. 0	1-5	6-10		
Water contacts with other farms (holding species	Farm is protect disinfection or I	red (secure water supply through porehole)	0				0
susceptible to same diseases)	farms upstrean	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		1
	farms upstrean	or in a coastal zone with category III or within 1 tidal excursion	1	3	6		
		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 waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	0				0
	Processing ow	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent state	from zone or compartment of us	4				
	Processing fish	from Category III farm	8				
	Processing fish	from Category V 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
γ	Feeding unpas	<u>'</u>	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		0
Disinfection of equipment	Yes		0	1			0
between sites, use of footbaths etc	No		1				
CoGP/Regulator	lv.			7			
Practices in accordance with regulator or industry	Yes		0				
code of practice	No		3				3
Platform access to cages	Yes		0	1			0
	No		2	-			
				,	<b>Total</b> Rank		24 MEDIUM

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2
Case No: 2022-0495	Site No:	FS0511
Sea Lice Inspection (Seawater Sites Of 1. Has the site experienced sea lice problem to the control of the contr	lems in the previous 4 years?	
3. Does the site have access to a range of	(or equivalent) fallowed synchronously on a single y of licenced in-feed and bath sea lice medications (in as well as access to suitable biological and/or med eriod of time?	cluding deltamethrin,
4. Is there a signed documented farm ma Management Area (or equivalent)?	nagement agreement or statement relevant to the s	site and CoGP Farm
<ul><li>5. Are sea lice count records available for</li><li>6. Do records adequately reflect the requ</li></ul>	r inspection? (Legal SSI, CoGP Annex 6) ired standard specified in the SSI and the CoGP? (I	Legal SSI, CoGP Annex 6)
7. Are sea lice ( <i>L. salmonis</i> ) record levels records are inspected? (CoGP Annex 6)	s below the suggested criteria for treatment in the C	coGP during the period that
8. Have average adult female sea lice ( <i>L.</i> 2 or above (from w/b 10/6/19) during the	. salmonis) numbers per fish been at a level of 3 or period that records are inspected?	above (prior to w/b 10/6/19) or
•	ish Health Inspectorate? If no, FHI see comment. hich is considered to cause significant welfare problem.	lems? (CoGP 4.3.81, 5.3.50)
suggested criteria for treatment or where	ministered or other actions taken when <i>L. salmonis C. elongatus</i> is considered to have welfare implications.	
13. Are treatments, where conducted, car	ctions taken had a significant impact upon the lice le rried out in cooperation between participating farms	?
sea lice?	site, where fewer populations or part populations are	
15. Is there a site specific written lice may scenarios during the escalation of a sea I	nagement procedure with waypoints describing set a ice infestation?	actions to deal with recognised
16. Do the sea lice levels observed on sto	ocks reflect sea lice count data? If no please detail i	reasons.
	amage due to predators in the current or previous points the predation experienced on site? (Detail below	
Top nets on tanks Perimeter fence		1
If other, detail below:		
<ol> <li>Have escape incidents or events beer</li> <li>Yes proceed with questions 4 – 9. If No</li> <li>Have these been reported to Scottish I</li> </ol>		ne last FHI inspection?
5. Have these been reported to local DSF	FB forthwith (where they exist)? (CoGP – 4.4.37, 5.4) and local fisheries trusts forthwith (where they exist)	
7. Were methods (if any) used to recover	escapees? If yes give detail	
8. If gill nets were deployed was this action Ministers? (Legal, CoGP – 4.4.38, 5.4.18)	on agreed with local wild fish interests and was pern	nission given by Scottish
be considered under satisfactory me	· · · · · · · · · · · · · · · · · · ·	
10. Is the site inspected as satisfactory w	rith regards to containment? If no, please detail reas	son(s) Y

Date of issue: 12/05/2020

FHI 059, Version 13				issued by:	FHI		
Case no:	2022-0495	Site No:	FS0511	Date of		17/10/2022	17/
Priority samples:	VI	ВА	PA	Samplii MG	ng. HI	_	
Time sampling starts/ends:	10:30:00	10:45:00	Inspect	or:	VMD	No.	1
Environmental condition	ons: 1 Dry	2 Sunny	3 Cloudy	4	5		
Summary samples	HIST	ВА	MG	VI	РА	Total Sar	mples
Add Fish/Pools - click							
Pool/Fish No							
Fish nos	F1						
Pool Group							
Species	RTR						
Average weight	331g						
Sex	N/A						
Water Type	FW						
	=						
III	ا ق						
ails	ب						
Details	her						
	Northern Trout						
Stock Origin Facility No							
WILACIIITÀ INO	1						

10/2022	Addition	nal Sam	ple Infor	mation:							
	Fish dis	spatched	d by perd	cussive	blow.						
0	l	Total To	ests ass	signed	0	1					

Site No: FS0511

Case No: 2022-0495

Nature of non-compliance:

Action taken (FHI):

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

0 11	2222 2425				47/40/0	200				
Case No:	2022-0495	J		Date of vi	sit: 17/10/20	J22				
Site No:	FS0511	]		Inspect	or:					
Results Summary	Freq.	Date of Notification								
,		Databas	e Insp	Phone	Insp	Writing	Insp	2 <sup>nd</sup> Inst		
				_		_	_			
Report Summary										
Case Type	Date	Insp	2 <sup>nd</sup> Insp							
ECI, CNI, VMD	24/10/2022	2								
	+									
	+									





# FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0297
 Date of Visit
 17/10/2022

 Site No
 FS0511
 Site Name
 Forgue

 Case No
 20220495
 Inspector

# Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009.

All epidemiological units were inspected. 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.

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

Mortality records were inspected and found to be adequately maintained.

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

No animal health surveillance had been carried out on behalf of the business and/or Marine Scotland since the last Marine Scotland 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 with respect to section 5 regarding containment and escapes.

On this occasion the site was found to be satisfactory.

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

Signed: Date: 24/10/2022

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/publications/fish-health-inspectorate-service-charter/">https://www.gov.scot/publications/fish-health-inspectorate-service-charter/</a>