

Case No: Date of visit:

Time spent on site: Main Inspector:

Site No: Site Name:

Business No: Business Name:

Case Types: 1 2 3 4 5 6

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

Observations: Region: OR Water type: S CoGP MA: O-3

Dead/weak/abnormally behaving fish present? If yes, see additional information/clinical score sheet.

Clinical signs of disease observed? If yes, see additional information/clinical score sheet.

Gross pathology observed? If yes, see additional information/clinical score sheet.

Diagnostic samples taken?

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

Additional Case Information:

Site was re-visited following consecutive weeks of increased mortality. Salmon came on from Barcaldine Smolt Unit (FS1328) and had been performing well this cycle up until wk28 2023.

CMS and HSMI had been detected at the site earlier in the year but were not causing significant increases in mortality at that time. CMS, combined with environmental stress (low DO and presence of microjellies) has since been attributed to the cause of the increased mortality in wks28, 29 and 30.

Site is destocking through harvests and site will be fallow by the end of August/beginning of September 23.

Case No: **2023-0358** Site No: **FS1331**
 Date of Visit: **15/08/2023** Inspector(s): **[REDACTED]**

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

Total No facilities	12	Facilities stocked	7	No facilities inspected	
Species	SAL				
Age group	21 S0				
No Fish	106,771				
Mean Fish Wt	6.5kg				
Next Fallow Date (Site)	August 23	Next Input Date (Site)	October 23		
Recent (last 4 wks) disease problems?		Y	Any escapes (since last visit)?		
If yes, detail:	CMS, HSMI				

Movement Records

- 1. Movement records available for inspection?
- 2. Date of last inspection: **14/06/2023**
- 3. Are records complete and correctly entered?
- 4. Are movement records available for dead fish and waste?
- 5. Are records complete and correctly entered?
- 6. Are health certificates for introductions (outwith GB) available?

Transport Records

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

Mortality Records

- 1. Mortality records available for inspection?
- 2. How are mortalities disposed of? **Other (detail)**
 Whole fish transferred in sealed bins to shorebase where they are uplifted in bulkers to Keen ensiling.
- 3. Mortality records complete and correctly entered?
- 4. Recent mortality (last 4 wks): **Wk32: 470 (0.44%), Wk31: 506 (0.37%) , Wk30: 9,097 (6,2%), W (1.8%), WK28: 3,394 (2.06%)**
- 5. Evidence of recent increased/atypical mortalities?
 If yes, facility nos/no mortality per facility/no stock per facility/reason:
Increased mortality in recent weeks attributed to CMS combined with low DO and presence of microjellies at site.
- 6. Any other peaks in mortality during period checked?
 If yes, detail:
- 7. Have increased (unexplained) mortalities been reported to vet or FHI?
 If yes, detail action:
- 8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

1. Recent treatments (see comment)?

If yes, detail:

Optomease

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)?

Optomease

If other, detail:

6. Are medicines stored appropriately?

Biosecurity Records

1. Biosecurity records available for inspection?

2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?

3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any *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:

14/06/23 - 08/08/23

12
N
Y
Y
Y
Y
Y
N/A
Y
ans for
Y
k29: 2,928
Y
N
N/A
Y

Case no: Site No: Date of visit/
Sampling:

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

Pool/Fish No	F1	F2	F3	F4	F5							
Fish nos	1	2	3	4	5							
Pool Group	P1	P2	P3	P4	P5							
Species	SAL	SAL	SAL	SAL	SAL							
Average weight	6.5kg	6.5kg	6.5kg	6.5kg	6.5kg							
Sex	N/A	N/A	N/A	N/A	N/A							
Water Type	SW	SW	SW	SW	SW							
Stock Details	Stock Origin	Barcaldine Smolt Unit FS1328	Barcaldine Smolt Unit FS1328	Barcaldine Smolt Unit FS1328	Barcaldine Smolt Unit FS1328	Barcaldine Smolt Unit FS1328						
	Facility No	3	3	8	8	12						

Case no: **2023-0358**

Site No: **FS1331**

Method of killing: **Percussive**

Date of visit: **15/08/2023**

Inspector(s): **[REDACTED]**

Sheet Relevant: **Y**

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

Fish Number		F1	F2	F3	F4	F5							
Time sampled after death (if > 45 minutes)													
External Signs													
Behaviour	Moribund	S	S	M	S	S							
	Lethargic			M									
	Hanging vertical												
	Spiralling												
	Flashing												
Body	Loss of equilibrium												
	Dark												
	Distended abdomen												
Opercula	Anorexic	S	S		S	S							
	Scale Oedema												
Opercula	Shortened												
	Flared												
Haemorrhaging	Throat												
	Ventrum				W								
	Base of fins				M								
Eyes	Elsewhere				M								
	Exophthalmic												
	Enophthalmic (sunken)												
Gills	Cataract				S	S							
	Haemorrhagic												
Gills	Pale	M	S	W	M	M							
	Zoned												
	Necrotic	M	M		M	S							
Lesions	Flank												
	Elsewhere												
Vent	Inflamed												
	Trailing faeces												
Lice Load	Estimate numbers		6	14	3	7	19						
Internal Signs													
Ascites	Clear		W		W	W							
	Bloody												
Oedema	In tissues												
Heart	Pale/anaemic	M	M	W	M	M							
	Granulomas												
Liver	Deformed												
	Petechial haem												
	Gross haem												
	Tissue breakdown												
	Enlarged												
Pyloric caeca	Colour number(s)		5	4	5	3	2						
	Granulomas												
	Lesions												
Spleen	Petechial haem												
	Tubules mauve												
Gut	Lack of fat	W	S		S	S							
	Enlarged			W									
Swim bladder	Granulomas												
	No food present	S											
	Yellow pseudo-faeces		M		S	M							
Kidney	External haem												
	Internal haem												
	Haemorrhaging												
General	Fluid filled												
	Swollen												
	Grey												
General	Granular												
	Liquefied												
	Parasites present												
General	Anaemia												

Additional comments:

Site No: FS1331
Case No: 2023-0358
Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0125	DATE OF VISIT	15/08/2023
SITE No	FS1331	SITE NAME	Lober Rock (SMH)
CASE No	20230358	INSPECTOR	[REDACTED]

Section 1: Summary

The site was inspected due to recent mortality reports above the reporting threshold, all attributed to viral disease. Five fish were selected for diagnostic sampling.

Histopathological examination revealed features consistent with mild hyperplastic branchitis and cardiomyopathy syndrome (CMS). One fish also displayed features resembling the presence of salmonid alphavirus (SAV). Salmonid alphavirus (SAV) and piscine myocarditis virus (PMCV) were confirmed by qPCR. Fish also displayed features of osmotic imbalance and cachexia.

Paranucleospora theridion, and salmon gill poxvirus were also detected by qPCR.

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

Section 2: Case Detail

Observations

Lober Rock (SMH) was inspected due to recent, consecutive mortality reports above the reporting criteria, all attributed to viral disease and which resulted in the loss of 16,553 fish in a 4-week period. At the time of inspection, the site was stocked with 106,771 S0 Atlantic salmon at an average weight of 6.5kg originating from the Barcaldine Smolt Unit (FS1328). All cages were inspected and mortalities and moribund fish were observed in the majority of cages on site. Five moribund fish were removed from cages 3, 8 and 12 for diagnostic sampling.

All five fish were moribund and 4/5 fish were anorexic. Haemorrhaging was noted on the ventral surface and flank of F4. Cataracts were observed in the eyes of F4 and F5. The gills of all five fish were pale and necrosis of the gills was noted in F1-2 and F4-5. Internally, F2, 4 and 5 had clear ascites in the body cavity and all five fish had pale/anaemic hearts. There was an obvious lack of fat surrounding the pyloric caeca of F1-2 and F4-5, and the spleen of F3 was enlarged. No food was present in the gut of F1 and yellow pseudo-faeces were present in the guts of F2, 4 and 5.

Samples

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

Fish number	Facility number	Species	Stage	Origin
F1-2	3	Atlantic salmon	21 S0	Barcaldine Smolt Unit (FS1328)
F3-4	8	Atlantic salmon	21 S0	Barcaldine Smolt Unit (FS1328)
F5	12	Atlantic salmon	21 S0	Barcaldine Smolt Unit (FS1328)

Results

Bacteriology: Kidney and gill material from F1-5 were inoculated onto appropriate media for the isolation of bacteria.

No significant bacteria were isolated.

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

Piscine myocarditis virus (CMS)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	16.47	31.23	31.09	30.68	POSITIVE
F2	16.63	30.00	29.50	29.17	POSITIVE
F3	16.95	27.22	26.75	26.81	POSITIVE
F4	17.32	30.26	29.11	30.17	POSITIVE
F5	17.32	26.17	25.97	26.63	POSITIVE

Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	-	-	-	-	Negative
F2	-	-	-	-	Negative
F3	19.72	34.91	35.13	35.96	POSITIVE
F4	-	-	-	-	Negative
F5	-	-	-	-	Negative

Salmonid alphavirus (SAV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	-	-	-	-	Negative
F2	-	-	-	-	Negative
F3	16.95	28.49	29.02	28.84	POSITIVE
F4	17.32	33.74	34.05	35.09	POSITIVE
F5	-	-	-	-	Negative

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

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

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	-	-	-	-	Negative
F2	19.83	35.19	36.18	35.33	POSITIVE
F3	19.72	34.98	36.33	35.36	POSITIVE
F4	-	-	-	-	Negative
F5	-	-	-	-	Negative

The samples tested negative for *Neoparamoeba perurans* (AGD).

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

Histopathological examination revealed the following:

Gill: Lamellar hyperplasia, very mild to mild, multifocal (F1, F2, F3, F4) with haemorrhage, (F2, F4) lamellar necrosis. F5 displayed one plankton-like structure between two gill filaments. Some aneurysmal dilation/telangiectasia (F1), free blood among gill filament (F3) and lamellar congestion observed in all fish (likely due to persecutive stunning).

Skin & Muscle: Skeletal white muscle necrosis, mild, multifocal (F2).

Heart: Myocarditis, minor, multifocal (F1, F2, F3) and moderate necrotising myocarditis (F5).

Gut and pyloric caeca: Reduced to absence of adipose tissues observed in all fish.

Pancreas: Within the normal range.

Liver: Some sinusoidal congestion (F5). Renal tubules with some epithelial vacuolation (F2).

Kidney: Increase number of melanomacrophage aggregates in all fish.

Spleen: Slightly to marked congestion in all fish.



Signed:

Date: 07/09/2023

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot](http://www.gov.scot/Fish_Health_Inspectorate_Service_Charter) (www.gov.scot)

Case No: 2023-0359 Date of visit: 11/08/2023

Time spent on site: 0 Main Inspector:

Site No: FS0993 Site Name: Chalmers Hope

Business No: FB0095 Business Name: Cooke Aquaculture Scotland Ltd

Case Types: 1 INF 2 3 4 5 6

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

Observations: Region: OR Water type: S CoGP MA: O-3

Dead/weak/abnormally behaving fish present? Clinical signs of disease observed? Gross pathology observed? Diagnostic samples taken?

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

Additional Case Information:

IDN placed . Phonecall from business informing us of suspicion of the presence of BKD. FHI to visit 16/8/23.

Case No: 2023-0360 Date of visit: 16/08/2023

Time spent on site: 4hrs Main Inspector: [Redacted]

Site No: FS0993 Site Name: Chalmers Hope
Business No: FB0095 Business Name: Cooke Aquaculture Scotland Ltd

Case Types: 1 REP 2 DIA 3 STI 4 [] 5 [] 6 []

Water Temp (°C): 13.9 Thermometer No: T152 FHI 045 completed []

Observations: Region: OR Water type: S CoGP MA: O-3

Dead/weak/abnormally behaving fish present? Y If yes, see additional information/clinical score sheet.
Clinical signs of disease observed? Y If yes, see additional information/clinical score sheet.
Gross pathology observed? Y If yes, see additional information/clinical score sheet.
Diagnostic samples taken? Y

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

Additional Case Information:

Salmon were moved from Fara West (FS1017) to Chalmers in Wk30. Mortality data is from input.

Salmon originated from Ardtaraig Hatchery (FS0648) and Yetts O' Muckart (FS0371) (mix of Stofinfisker and Aquagen). Yetts fish have been feeding and performing well. Few moribunds observed in the cages stocked with fish from Yetts (1-6). Cages stocked with fish from Ardtaraig (7-12) had high numbers of moribunds that were dark in colour, most exhibiting exophthalmia and some physical damage to flanks with visible haemorrhaging along the throat and ventrum. Fish were removed from these cages for diagnostic sampling.

Mortality events above reporting threshold:

Wks 48, 49, 51 and 52 2022 - all events attributed to poor gill health on site combined with environmental insult.

Wk4 2023 - also attributed to poor gill health and environmental insult.

Wks48 and 49 mortality events were not reported as required. Mortality notifications for these weeks were submitted retrospectively, NFA.

Last crop had a hydrolicer treatment in March/April 2022, followed by a thermolicer treatment in April 22. Current crop have only had a Salmosan treatment in July following transfer from Fara West and Tricaine for sea lice counts and sampling.

Last crop were dead haul, harvested out by 21st June 23.

Case No: **2023-0360** Site No: **FS0993**
 Date of Visit: **16/08/2023** Inspector(s): **[REDACTED]**

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

Total No facilities	12	Facilities stocked	12	No facilities inspected	
Species	SAL				
Age group	2022 S0				
No Fish	482,788				
Mean Fish Wt	1.6kg				
Next Fallow Date (Site)	June 24	Next Input Date (Site)	August 24		
Recent (last 4 wks) disease problems?		Y	Any escapes (since last visit)?		
If yes, detail:	Suspected BKD				

Movement Records

- 1. Movement records available for inspection?
- 2. Date of last inspection: **01/03/2022**
- 3. Are records complete and correctly entered?
- 4. Are movement records available for dead fish and waste?
- 5. Are records complete and correctly entered?
- 6. Are health certificates for introductions (outwith GB) available?

Transport Records

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

Mortality Records

- 1. Mortality records available for inspection?
- 2. How are mortalities disposed of? **Other (detail)**
 Mortalities and waste are transferred in sealed bins to Stromness before being loaded onto a and taken to Dounby Yard before being transferred to Pelagia for ensiling.
- 3. Mortality records complete and correctly entered?
- 4. Recent mortality (last 4 wks): **Wk32: 1436 (0.3%), Wk31: 2593 (0.52%), Wk30: 50 (0.01%)**
- 5. Evidence of recent increased/atypical mortalities?
 If yes, facility nos/no mortality per facility/no stock per facility/reason:
- 6. Any other peaks in mortality during period checked?
 Wk4 2023: 1.07% (4,327), Wk52 2022: 1.2% (4,990), Wk51: 1.22% (5,143), Wk49: 1.19% (2
 Wk48: 1.91% (4,432), Wk41: 2.84% (6,956)
- 7. Have increased (unexplained) mortalities been reported to vet or FHI?
 If yes, detail action:
- 8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

Treatments and Medicines Records

1. Recent treatments (see comment)?

If yes, detail:

TMS

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)?

TMS

If other, detail:

6. Are medicines stored appropriately?

Biosecurity Records

1. Biosecurity records available for inspection?

2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?

3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any *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:

01/03/2022 - 16/08/23

12
N
Y
Y
Y
Y
N/A
Y
bulker lorry
Y
N
Y
,725),
N/A
N

Case no: Site No: Date of visit/
 Sampling:

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

Pool/Fish No	F1	F2	F3	F4	F5							
Fish nos	1	2	3	4	5							
Pool Group	P1	P2	P3	P4	P5							
Species	SAL	SAL	SAL	SAL	SAL							
Average weight	1.6kg	1.6kg	1.6kg	1.6kg	1.6kg							
Sex	N/A	N/A	N/A	N/A	N/A							
Water Type	SW	SW	SW	SW	SW							
Stock Details	Stock Origin	Yetts O' Muckart FS0371	Ardtaraig Hatchery FS0648	Ardtaraig Hatchery FS0648	Ardtaraig Hatchery FS0648	Ardtaraig Hatchery FS0648						
	Facility No	5	7	8	9	12						

Case no: 2023-0360

Site No: FS0993

Method of killing: Percussive

Date of visit: 16/08/2023

Inspector(s):

Sheet Relevant: Y

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

Fish Number		F1	F2	F3	F4	F5							
Time sampled after death (if > 45 minutes)													
External Signs													
Behaviour	Moribund	S	S	S	S	S							
	Lethargic												
	Hanging vertical												
	Spiralling												
	Flashing												
Body	Loss of equilibrium												
	Dark		M	W	W	S							
	Distended abdomen	S											
	Anorexic		S	M	S	S							
Opercula	Scale Oedema	W											
	Shortened												
Haemorrhaging	Flared												
	Throat	W			W								
	Ventrum	W		W									
	Base of fins	W			W								
Eyes	Elsewhere												
	Exophthalmic	S	S	S	S	S							
	Enophthalmic (sunken)												
	Cataract			W									
Gills	Haemorrhagic				W								
	Pale	S	S	S	S	S							
	Zoned												
Lesions	Necrotic	M	W	M	S	M							
	Flank												
Vent	Elsewhere												
	Inflamed												
Lice Load	Trailing faeces												
	Estimate numbers		14	9	11	7	8						
Internal Signs													
Ascites	Clear	S			W								
	Bloody		W			W							
Oedema	In tissues												
Heart	Pale/anaemic	S	S	S	S	S							
	Granulomas												
Liver	Deformed												
	Petechial haem		W		W	M							
	Gross haem												
	Tissue breakdown												
	Enlarged		M		M	M							
Pyloric caeca	Colour number(s)				W								
	Granulomas												
	Lesions												
	Petechial haem					W							
Spleen	Tubules mauve												
	Lack of fat	S	W		W								
Gut	Enlarged		M	M		S							
	Granulomas					W							
Body wall	No food present				M								
	Yellow pseudo-faeces	M	M	M		M							
	External haem												
	Internal haem												
Swim bladder	Haemorrhaging												
	Fluid filled												
Kidney	Swollen		M	M		W							
	Grey												
	Granular		M										
	Liquefied	W				W							
General	Parasites present												
	Anaemia												

Additional comments:

F1 very swollen and full of clear fluid in the body cavity.

F2 left eye had burst. White nodules very visible and widespread in kidney. White structures were noted in the heart of F2.

F4 white nodules observed on the liver and kidney.

F5 left eye had burst. White nodules observed on the spleen in addition to kidney.

Site No: FS0993
Case No: 2023-0360
Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology

Case No: **2023-0360** Date of visit: **16/08/2023**
 Site No: **FS0993** Inspector: **[REDACTED]**

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
MG_ISA	0/5	22/08/2023		22/08/2023		22/08/2023		
MG_IHNQ	0/5	22/08/2023		22/08/2023		22/08/2023		
MG_VHS	0/5	22/08/2023		22/08/2023		22/08/2023		
MG_BKD	4/5	22/08/2023		22/08/2023		22/08/2023		
MG_PARA_THER_Q	5/5	22/08/2023		22/08/2023		22/08/2023		
MG_AGDQ	1/5	22/08/2023		22/08/2023		22/08/2023		
MG_SAL_POX	2/5	22/08/2023		22/08/2023		22/08/2023		
MG_SAV	0/5	22/08/2023		22/08/2023		22/08/2023		
MG_IPN	1/5	22/08/2023		22/08/2023		22/08/2023		
MG_PMCV	3/5	22/08/2023		22/08/2023		22/08/2023		
MG PRV	1/1	25/08/2023		25/08/2023		25/08/2023		
Yersinia ruckeri (ERM) - YRUK	1/5	30/08/2023		30/08/2023		30/08/2023		
No significant bacteria (culture) - NSIG	2/5	30/08/2023		30/08/2023		30/08/2023		
BKD Renibacterium salmoninarum (histo) - RSBA	5/5	30/08/2023		30/08/2023		30/08/2023		
Gill pathology - GPAT	5/5	30/08/2023		30/08/2023		30/08/2023		
Heart pathology - HPAT	5/5	30/08/2023		30/08/2023		30/08/2023		
Liver pathology - LPAT	3/5	30/08/2023		30/08/2023		30/08/2023		
Kidney pathology - KPAT	5/5	30/08/2023		30/08/2023		30/08/2023		
Skin pathology - SKIN	4/4	30/08/2023		30/08/2023		30/08/2023		
Salmonid alphavirus (SAV) (histology) - SALH	5/5	30/08/2023		30/08/2023		30/08/2023		

Report Summary			
Case Type	Date	Insp	2 nd Insp
REP, STI	25/08/2023		
DIA	07/09/2023		



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0095	DATE OF VISIT	16/08/2023
SITE No	FS0993	SITE NAME	Chalmers Hope
CASE No	20230360	INSPECTOR	[REDACTED]

Section 1: Summary

The site was inspected following notification by the business of suspicion of the presence of bacterial kidney disease (BKD). Five fish were selected for diagnostic sampling.

Histopathological examination revealed features consistent with bacterial kidney disease (BKD), confirmed by qPCR. Some features resembled the presence of cardiomyopathy syndrome (CMS), also confirmed by qPCR. Although qPCR was negative for salmonid alphavirus (SAV), some features resembling SAV were observed. Some mild hyperplastic branchitis was also observed.

Infectious pancreatic necrosis (IPN), piscine reovirus, *Neoparamoeba perurans* (AGD), *Paranucleospora theridion*, and salmon gill poxvirus were all detected by qPCR.

Yersinia ruckeri was identified on plates taken from kidney material of fish 2. Although this is a primary fish pathogen the level and purity of growth would not suggest this bacterium would be implicated as the primary source of morbidity in this case.

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

Chalmers Hope was inspected following notification by the business for the suspected presence of bacterial kidney disease (BKD) on the site. At the time of inspection, the site was stocked with 482,788 S0 (2022) Atlantic salmon at an average weight of 1.6kg, originating from both Ardtaraig Hatchery (FS0648) and Yetts O' Muckart (FS0371) and no mortality events exceeding the reporting threshold had been experienced at the site. The last mortality event that exceeded the reporting threshold was at the beginning of December 2022. All cages were inspected and mortalities and moribund fish were observed across the site, but were significantly higher in cages 7-12. Five moribund fish were removed from cages 5, 7, 8, 9 and 12 for diagnostic sampling.

All five fish were moribund and 4/5 fish were dark in colour. F1 had a distended abdomen, while F2-5 were anorexic. Scale pocket oedema was noted on F1. Haemorrhaging was observed in the eyes of F4 and cataracts were observed in the eyes of F3. The eyes of F2 and F5 had burst. All five fish had pale gills that were in varying stages of necrosis.

Internally, clear ascites was observed in F1 and F4, while bloody ascites was noted in F2 and F5. The hearts of all five fish were pale/anaemic. The livers of F2, 4 and 5 exhibited petechial haemorrhaging and were enlarged, while the liver of F4 was granular in texture.

Petechial haemorrhaging was observed in the pyloric caeca (PC) of F5 and there was an obvious lack of fat on the PC of F1, 2 and 4. The spleens of F2, 3 and 5 were enlarged and granulomas were also noted on the spleen of F5. No food was present in the gut of F4 and yellow pseudo-faeces were noted in the guts of F1, 2, 3 and 5. The kidneys were swollen in F2, 3 and 5 and were liquefied in F1 and 4. Granulomas were also observed on the kidney of F2.

Samples

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

Fish number	Facility number	Species	Stage	Origin
F1	5	Atlantic salmon	2022 S0	Yetts O' Muckart (FS0371)
F2	7	Atlantic salmon	2022 S0	Ardtaraig Hatchery (FS0648)
F3	8	Atlantic salmon	2022 S0	Ardtaraig Hatchery (FS0648)
F4	9	Atlantic salmon	2022 S0	Ardtaraig Hatchery (FS0648)
F5	10	Atlantic salmon	2022 S0	Ardtaraig Hatchery (FS0648)

Results

Bacteriology: Kidney and gill material from F1-5 were inoculated onto appropriate media for the isolation of bacteria.

The following bacterium was isolated:

- *Yersinia ruckeri* (Kidney: F2)

Tissue samples were tested for segments of nucleic acid indicative of the presence of the pathogens specified below:

Renibacterium salmonarum (BKD)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	-	-	-	-	Negative
F2	21.84	24.61	24.69	24.69	POSITIVE
F3	21.28	36.14	35.94	35.63	POSITIVE
F4	21.52	31.89	31.69	31.91	POSITIVE
F5	20.85	34.11	34.53	34.84	POSITIVE

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	21.70	33.90	33.64	34.74	POSITIVE
F2	20.63	40	38.24	40	POSITIVE
F3	-	-	-	-	Negative
F4	-	-	-	-	Negative
F5	-	-	-	-	Negative

Piscine myocarditis virus (CMS)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	16.23	20.79	20.84	20.72	POSITIVE
F2	16.36	25.28	25.23	25.33	POSITIVE
F3	18.24	34.07	35.74	34.15	POSITIVE
F4	-	-	-	-	Negative
F5	-	-	-	-	Negative

Infectious pancreatic necrosis (IPN)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	16.23	35.89	34.57	36.76	POSITIVE
F2	-	-	-	-	Negative
F3	-	-	-	-	Negative
F4	-	-	-	-	Negative
F5	-	-	-	-	Negative

Piscine reovirus (HSMI)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F3	22.15	33.16	34.33	33.99	POSITIVE

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), infectious salmon anaemia virus (ISAV), salmonid alphavirus (SAV) 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	21.70	31.94	30.78	31.59	POSITIVE
F2	-	-	-	-	Negative
F3	-	-	-	-	Negative
F4	-	-	-	-	Negative
F5	-	-	-	-	Negative

Paranucleospora theridion

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	21.70	28.94	29.09	28.92	POSITIVE
F2	20.63	31.20	30.85	31.13	POSITIVE
F3	22.32	36.98	36.56	37.09	POSITIVE
F4	22.63	36.04	35.17	35.78	POSITIVE
F5	19.88	36.49	36.30	36.50	POSITIVE

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

Histopathological examination revealed the following:

Gill: Lamellar hyperplasia, mild, multifocal to diffuse (F1, F2, F3, F5) with necrosis (F2). Focal to multifocal granulomatous inflammation (F2, F4). One plankton-like structure between two filaments (F2). Clusters of basophilic nuclei at the tips of few filaments (F4). Aneurysmal dilation/telangiectasia (F1, F2) and lamellar congestion (F1).

Skin & Muscle: Skeletal red muscle myositis, mild to moderate, multifocal (F3, F4) and skeletal white muscle myositis, mild, multifocal (F3). Granuloma-like structure at the red-white muscle interface (F2, F3). F1: Skin not present.

Heart: Myocarditis, minor, multifocal (F1-F5). Granulomatous inflammation, multifocal, mild (F2, F3, F4) and foci with marked presence of Gram-positive bacteria (F2). Epicarditis (F1, F2, F3, F4). F2, F4: No atrium present.

Gut and pyloric caeca: Reduced abdominal adipose tissue (F1, F3, F4), granulomatous peritonitis (F2, F3, F4, F5).

Pancreas: Small foci of acinar necrosis (F2).

Liver: Granulomatous hepatitis, mild, multifocal (F1, F2, F4), cuffing (F1, F4).

Kidney: Interstitial cell (haemopoietic) necrosis, mild, multifocal (F1, F2, F5), granulomatous nephritis (F2, F3, F4, F5). Few renal tubules with hyaline droplets (F5).

Spleen: Capsulitis (F5).



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0095	DATE OF VISIT	16/08/2023
SITE No	FS0993	SITE NAME	Chalmers Hope
CASE No	20230360	INSPECTOR	██████████

Statutory Inspection

The above site was inspected following notification for the suspected presence of bacterial kidney disease (BKD).

All epidemiological units were inspected and samples were taken for diagnostic purposes. A separate report will be issued detailing the results of these tests.

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



Signed:

Date: 25/08/2023

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

F1 -

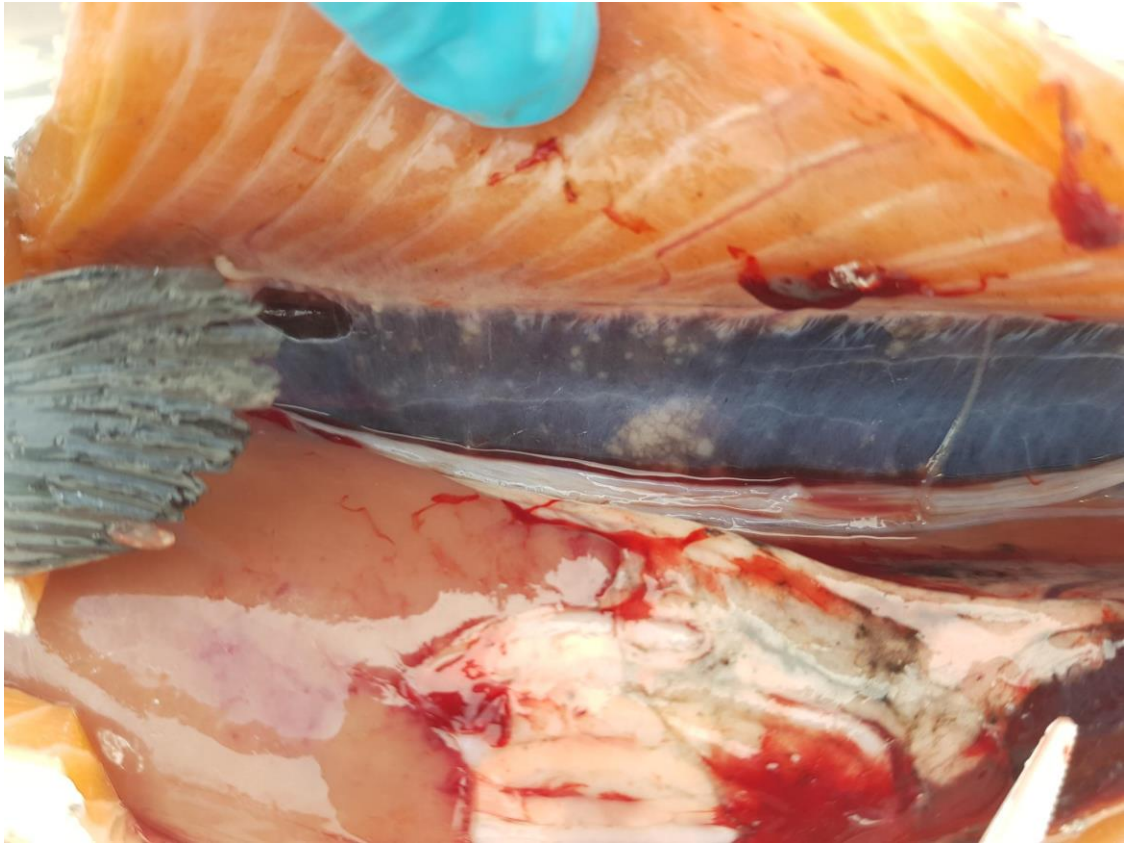




F2 -







F3 -





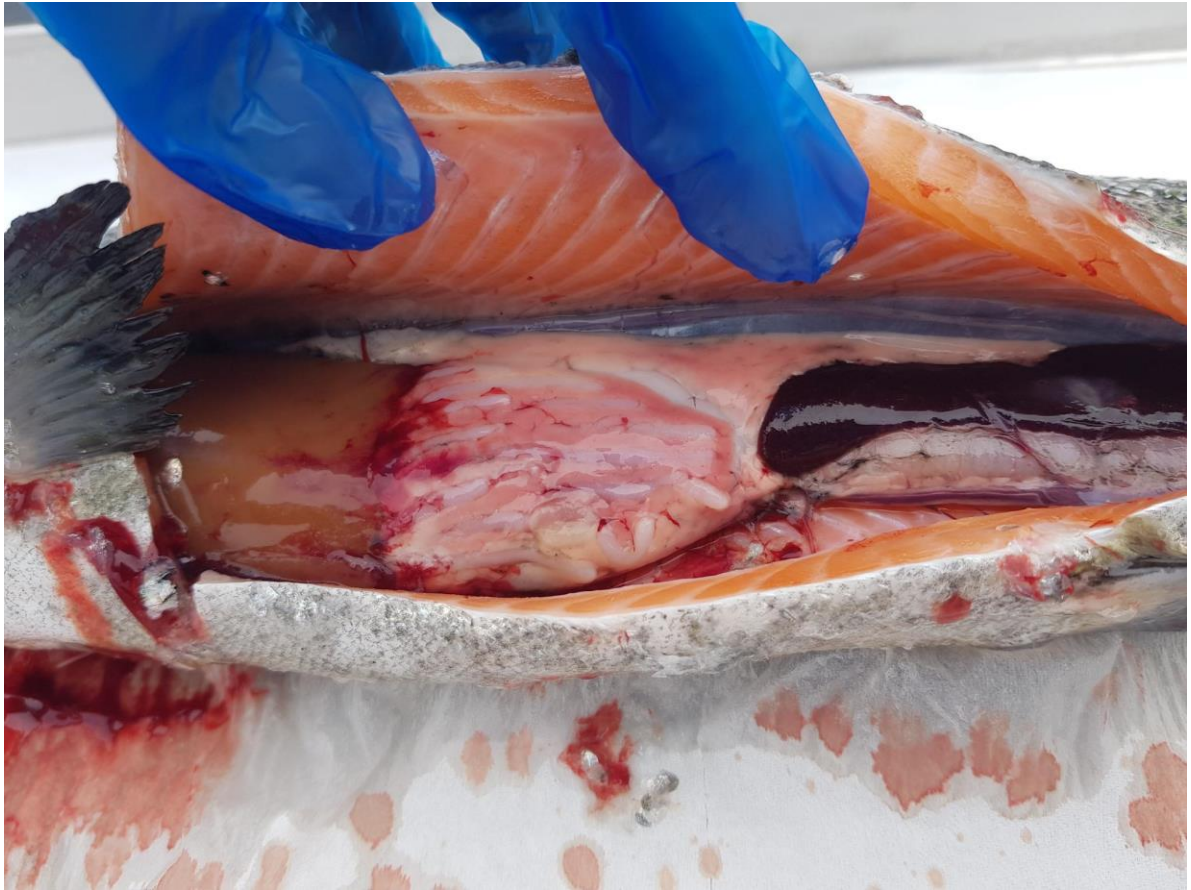
F4 –





F5 -





Case No: Date of visit:

Time spent on site: Main Inspector:

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

Case Types: 1 2 3 4 5 6

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

Observations: Region: OR Water type: S CoGP MA: O-3

Dead/weak/abnormally behaving fish present? If yes, see additional information/clinical score sheet.
Clinical signs of disease observed? If yes, see additional information/clinical score sheet.
Gross pathology observed? If yes, see additional information/clinical score sheet.
Diagnostic samples taken?

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

Additional Case Information:

Fish moved on from Toyness in march 2023 - toyness is a nursery site.

Stock origin: Knock and barcaldine (stofnfiskur and aquagen)

Treatments:

FW- 23/03 to 06/04, Wk 12, all pens: FW treatment at input - 0.85% 5400, mortality below threshold.

Slice Wk 19, all pens

Slice Wk 25, all pens

FW wk 27, all pens

All harvests are conducted via live haul. Optomease used instead of T.M.S before end of crop due to shorter withdrawal time.

Health surveillance: weekly gill swabs, but usually once a month health visits conducted.

08/08/2023 - gill swabs - no AGD detected. Site has also been seeing mild bloody spotting initially thought to be due to caligus but determined that jellyfish are issue.

non-synchronous fallow risk assessment available as sites in FMA do not fallow synchronously: inspected 17/08/2023
FMA- reviewed annually, but discussed every 6 months.

During site inspection, seagulls were observed landing on bird net and weighing it down. Site has highlighted that birds are an issue but all mitigation measures in place. In addition, an upside down fish was observed in pen 8, removed to inspect it and deemed that no clinical signs were observed and therefore no diagnostic sample taken.

1 fish was removed for VMD sampling and was observed to be in healthy condition. Fish on site were observed to be shoaling well and feeding well too.

In addition to the routine inspection, a statutory inspection was conducted due to confirmation of BKD at Chalmer's Hope (FS0993) - within one tidal excursion of the inspected site. The inspection was conducted to rule out signs of clinical BKD. No fish were observed with signs of clinical BKD.

Case No: Site No:

Date of Visit: Inspector(s):

Registration/Authorisation Details

1. Business/site details summary checked by site representative?

2. Changes made to details?

Site Details (include cleaner fish for all sections)

Total No facilities	<input type="text" value="12"/>	Facilities stocked	<input type="text" value="11"/>	No facilities inspected	<input type="text" value="12"/>
Species	<input type="text" value="SAL"/>				
Age group	<input type="text" value="2022 S0"/>				
No Fish	<input type="text" value="616,304"/>				
Mean Fish Wt	<input type="text" value="2.69kg"/>				
Next Fallow Date (Site)	<input type="text" value="July 2024"/>	Next Input Date (Site)	<input type="text" value="September 2024"/>		
Recent (last 4 wks) disease problems?	<input type="text" value="N"/>		Any escapes (since last visit)?	<input type="text" value="N"/>	
If yes, detail:	<input type="text" value=""/>				

Movement Records

1. Movement records available for inspection?

2. Date of last inspection:

3. Are records complete and correctly entered?

4. Are movement records available for dead fish and waste?

5. Are records complete and correctly entered?

6. Are health certificates for introductions (outwith GB) available?

Transport Records

1. Are any movements carried out by (or on behalf) of the business (not using a STB)?

If yes, is there a system in place for maintenance of transportation records?

Mortality Records

1. Mortality records available for inspection?

2. How are mortalities disposed of?

If other detail:

3. Mortality records complete and correctly entered?

4. Recent mortality (last 4 wks):

5. Evidence of recent increased/atypical mortalities?

If yes, facility nos/no mortality per facility/no stock per facility/reason:

6. Any other peaks in mortality during period checked?

If yes, detail:

7. Have increased (unexplained) mortalities been reported to vet or FHI?

If yes, detail action:

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

Treatments and Medicines Records

- 1. Recent treatments (see comment)? Y
 If yes, detail: T.M.S
- 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? Y
- 5. If yes, what treatment(s)? T.M.S
 If other, detail:
- 6. Are medicines stored appropriately? Y

Biosecurity Records

- 1. Biosecurity records available for inspection? Y
- 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered? Y
- 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 presence of a listed disease is detected been included and *how* and *when* that will be notified to Scottish Ministers? Y
- 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)? Y
- 6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)? Y
- 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? Y
- 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? Y
- 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: 10/11/2021-22/08/2023

Case no: Site No: Date of visit/
 Sampling:

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

Pool/Fish No												
Fish nos	F1											
Pool Group												
Species	SAL											
Average weight	3kg											
Sex	N/A											
Water Type	SW											
Stock Details		Toyness (FS1024)										
	Stock Origin											
Facility No	8											

Case Number:	2023-0364	Site No:	FS1023	Insp:		
Date of Visit	22/08/2023	No of movements/supp./dest.			Score	
Live fish movements		0	1-5	6-10	>10	
Movements on (from out with GB) of susceptible species	Frequency of movements on from equivalent MS	0	5	10	14	0
	Frequency of movements on from equivalent zone or compartment including third country	0	9	18	26	0
	Number of suppliers	0	5	10	14	0
Movements off	Frequency of movements off	0	3	6	10	10
	Number of destinations	0	3	6	10	3
Exposure via water	Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0				
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		2
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6		
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		
Management practices		None	Secure	Unsecure		
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm processing	0				0
	Processing own fish (re-cycling risk)	1				
	Processing fish from MS of equivalent status	2				
	Processing fish from zone or compartment of equivalent status	4				
	Processing fish from Category III farm	8				
	Processing fish from Category V farm	10				
Disposal of fish and fish by-products	Site's own waste only processed.	0				
	Common processes with other farms	3				3
	Collection point for waste from other farms	5				
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0
	Feeding unpasteurised feed	5				
Biosecurity	Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating from single shorebase	0	1	2		1
	Sites sharing staff and equipment	0	1	2		0
Disinfection of equipment between sites, use of footbaths etc	Yes	0				0
	No	1				
CoGP/Regulator						
Practices in accordance with regulator or industry code of practice	Yes	0				0
	No	3				
Platform access to cages	Yes	0				0
	No	2				
Total Rank					19	MEDIUM

Case No: 2023-0364

Site No: FS1023

Sea Lice Inspection (Seawater Sites Only)

- 1. Has the site experienced sea lice problems in the previous 4 years?
- 2. Is the CoGP Farm Management Area (or equivalent) followed synchronously on a single year class basis?
- 3. Does the site have access to a range of licenced in-feed and bath sea lice medications (including deltamethrin, azamethiphos and emamectin benzoate) as well as access to suitable biological and/or mechanical control measures, and can these be deployed in a reasonable period of time?
- 4. Is there a signed documented farm management agreement or statement relevant to the site and CoGP Farm Management Area (or equivalent)?
- 5. Are sea lice count records available for inspection? (Legal SSI, CoGP Annex 6)
- 6. Do records adequately reflect the required standard specified in the SSI and the CoGP? (Legal SSI, CoGP Annex 6)
- 7. Are sea lice (*L. salmonis*) record levels below the suggested criteria for treatment in the CoGP during the period that records are inspected? (CoGP Annex 6)
- 8. Have average adult female sea lice (*L. salmonis*) numbers per fish been at a level of 3 or above (prior to w/b 10/6/19) or 2 or above (from w/b 10/6/19) during the period that records are inspected?
- If yes, have these been reported to the Fish Health Inspectorate? If no, FHI see comment.
- 9. Is *C. elongatus* infestation at a level which is considered to cause significant welfare problems? (CoGP 4.3.81, 5.3.50)
- 10. Have therapeutic treatments been administered or other actions taken when *L. salmonis* levels have exceeded the suggested criteria for treatment or where *C. elongatus* is considered to have welfare implications? (CoGP 4.3.82, 5.3.51)
- 11. Has any other action been taken (where applicable)?
- 12. Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded?
- 13. Are treatments, where conducted, carried out in cooperation between participating farms?
- 14. Is there a harvesting strategy for the site, where fewer populations or part populations are held without treatment for sea lice?
- 15. Is there a site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation?
- 16. Do the sea lice levels observed on stocks reflect sea lice count data? If no please detail reasons.

Containment Inspection

- 1. Has the site experienced equipment damage due to predators in the current or previous production cycles?
- 2. Are measures in place to mitigate against the predation experienced on site? (Detail below)
- seal pro nets, top
- If other, detail below:
- 3. Have escape incidents or events been experienced on or in the vicinity of the site since the last FHI inspection?
- If Yes proceed with questions 4 – 9. If No skip to question 10
- 4. Have these been reported to Scottish Ministers?
- 5. Have these been reported to local DSFB forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
- 6. Have these been reported to the SSPO and local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
- 7. Were methods (if any) used to recover escapees? If yes give detail
- 8. If gill nets were deployed was this action agreed with local wild fish interests and was permission given by Scottish Ministers? (Legal, CoGP – 4.4.38, 5.4.18)
- 9. What action was taken to prevent and minimise the risk of further escapes? (Not covered in code but could be considered under satisfactory measures of the Act)
- 10. Is the site inspected as satisfactory with regards to containment? If no, please detail reason(s)

Case No: 2023-0364

Site No: FS1023

Date of Visit: 22/08/2023

Inspector: [REDACTED]

Point of Compliance

1. Is the farm under inspection located within a farm management area?

If N, no further questions require completion.

Points of Compliance for Both Farm Management Agreements and Statements

2. Has a current farm management agreement or statement (FMAg/S) been prepared?

3. Is the current FMAg/S available for inspection?

4. Does the FMAg/S identify the relevant farm management area?

5. Does the FMAg/S identify the fish farm site(s) to which it applies?

6. Does the FMAg/S identify the date of commencement of the agreement or statement?

7. Does the FMAg/S identify the date of review?

Arrangements for Fish Health Management

8. Does the FMAg/S identify the minimum health standards for the stocks to be introduced to the area or farm?

9. Does the FMAg/S identify the vaccination requirements for stocks held in the area or farm?

10. Does the FMAg/S identify the species of fish which may be stocked into the area or farm?

11. Does the FMAg/S identify the maximum stocking density of any pen on any farm in the area or the individual farm?

12. Does the FMAg/S identify the arrangements for the storage and disposal of any dead fish from any fish farm in the area or the individual farm?

Arrangements for The Management of Sea Lice

13. Does the FMAg/S identify arrangements for the sharing of data on sea lice numbers and treatments?

14. Does the FMAg/S identify the availability and the use of medicines on farms covered by the agreement of statement?

15. Does the FMAg/S identify any requirements for the sensitivity testing of available treatments for sea lice on farms in the area or individual farms?

16. Does the FMAg/S identify the circumstances under which biological controls and cleaner fish are to be used on farms in the area or individual farms?

17. Does the FMAg/S identify the arrangements for synchronous treatments on farms within the area?

Live Fish Movements

18. Does the FMAg/S identify the circumstances when live fish may be introduced or removed from the area or farm?

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

Harvesting

20. Does the FMAg/S identify acceptable harvest practices on farms in the area or individual farms?

Fallowing

21. Does the FMAg/S identify the dates by which the area or individual farm will be fallow and the earliest date when a farm or area may be restocked?

22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement?

23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?

Point of Compliance for Farm Management Agreements Only

24. Does the farm management agreement include arrangements for persons to become, or cease to be, parties to the agreement?

Management and operation

25. Is the fish farm being managed and operated in accordance with the agreement or statement?

26. What is the version no/date of issue of the FMAg/S?





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0125	DATE OF VISIT	22/08/2023
SITE No	FS1023	SITE NAME	Bring Head
CASE No	20230364	INSPECTOR	[REDACTED]

Statutory Inspection

The above site was inspected as it is located within one tidal excursion of a site where the presence of bacterial kidney disease (BKD) has been confirmed.

All epidemiological units were inspected. No clinical signs associated with BKD were observed.

If clinical signs of BKD are observed on the site, the Inspectorate must be informed immediately.

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



Signed:

Date: 25/08/2023

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot](https://www.gov.scot/policies/fish-health-inspectorate/) (www.gov.scot)

Case No:	<input type="text" value="2023-0366"/>	Date of visit:	<input type="text" value="23/08/2023"/>			
Time spent on site:	<input type="text" value="4hrs"/>	Main Inspector:	<input type="text" value=""/>			
Site No:	<input type="text" value="FS0860"/>	Site Name:	<input type="text" value="Shapinsay"/>			
Business No:	<input type="text" value="FB0125"/>	Business Name:	<input type="text" value="Scottish Sea Farms Ltd"/>			
Case Types:	1 <input type="text" value="ECI"/>	2 <input type="text" value="CNI"/>	3 <input type="text" value="SLI"/>	4 <input type="text" value="VMD"/>	5 <input type="text" value=""/>	6 <input type="text" value=""/>
Water Temp (°C):	<input type="text" value="13.85"/>	Thermometer No:	<input type="text" value="T308"/>	FHI 045 completed	<input type="text" value="N/A"/>	
Observations:	Region:	OR	Water type:	S	CoGP MA:	O-2
Dead/weak/abnormally behaving fish present?	<input type="text" value="Y"/>	If yes, see additional information/clinical score sheet.				
Clinical signs of disease observed?	<input type="text" value="N"/>	If yes, see additional information/clinical score sheet.				
Gross pathology observed?	<input type="text" value="N"/>	If yes, see additional information/clinical score sheet.				
Diagnostic samples taken?	<input type="text" value="N"/>					

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

Additional Case Information:

Site stocked: 06/05/2023. Stock origin: Barcaldine (6 pens are Aquagen and 2 are Stofnfiskur)

Shapinsay currently stocked as a nursery site. 2 pens of salmon due to be transferred to Puldrite. The remaining pens are stock that will stay on Shapinsay.

Mortalities are collected via the foover. These are then moved into bins which get disposed of at the business ensiler on Orkney, located in Twatt.

Treatments since input:

Slice 03/08/2023

Slice 23/06/2023

Peroxide: 29/07/2023-31/07/2023

Seasonal caligus becomes a burden on site, therefore site has treated with slice and peroxide (Paramove 50) to stay on top of any issues. Lep numbers to date have continued to remain low.

Health inspections from health manager are conducted once a month. Health reports inspected from 18/07/2023 showed positive PCRs for AGD (10/12 samples). Histology reports also inspected, taken on 03/07/2023, showed no significant results.

Site mortality has remained low since input. Any mortalities have since input have been attributed to mainly birds and runts. To mitigate bird predation, bird nets have been doubled, increased tension and kites and scarecrows deployed.

Wrasse input was conducted on 14/07/2023. WK33: 1 mortality has been found . Wk34: 20 mortalities

All harvests are conducted via live haul.

Risk assessment in place for the fact that FMA does not fallow synchronously. FMA also does not note whether one or more year classes are stocked but detailed in business risk assessment. Found to be satisfactory therefore no issues raised with FMA presently.

Fish were sampled for VMD from 4 pens (4,7,8,9) and were observed to be healthy. Stofnfiskur stock in pen 7 and 9. Aquagen stock in 4 and 8.

Fish on site were seen to be shoaling well with only 4 moribund or runts observed across the whole site. Upon inspection no clinical signs of disease were observed.

Case No: **2023-0366** Site No: **FS0860**

Date of Visit: **23/08/2023** Inspector(s): **[REDACTED]**

Registration/Authorisation Details

1. Business/site details summary checked by site representative? **Y**

2. Changes made to details? **Y**

Site Details (include cleaner fish for all sections)

Total No facilities	12	Facilities stocked	8	No facilities inspected	12
Species	SAL	WRS			
Age group	2023 Q2	2023			
No Fish	601,918	6,879			
Mean Fish Wt	463g	mixed			
Next Fallow Date (Site)	Early 2025		Next Input Date (Site)	May 2025	
Recent (last 4 wks) disease problems?			Y Any escapes (since last visit)?	N	
If yes, detail:	AGD				

Movement Records

1. Movement records available for inspection? **Y**

2. Date of last inspection: **06/10/2021**

3. Are records complete and correctly entered? **Y**

4. Are movement records available for dead fish and waste? **Y**

5. Are records complete and correctly entered? **Y**

6. Are health certificates for introductions (outwith GB) available? **N/A**

Transport Records

1. Are any movements carried out by (or on behalf) of the business (not using a STB)? **Y**

If yes, is there a system in place for maintenance of transportation records? **Y**

Mortality Records

1. Mortality records available for inspection? **Y**

2. How are mortalities disposed of? **Other (detail)**

If other detail: **ensiled on orkney.**

3. Mortality records complete and correctly entered? **Y**

4. Recent mortality (last 4 wks): **SAL - 2023: Wk33, 0.15%, 921; Wk32, 0.04%, 263; Wk31, 0.17%, 1044; Wk30, 0.24%, 1443; Wk29, 0.29%, 1773; WRS - see additional info**

5. Evidence of recent increased/atypical mortalities? **N**

If yes, facility nos/no mortality per facility/no stock per facility/reason:

6. Any other peaks in mortality during period checked? **Y**

If yes, detail: **SAL - 2023 Wk7 1.30%, 238**

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. **N**

Treatments and Medicines Records

1. Recent treatments (see comment)?	<input type="checkbox"/>	Y
If yes, detail: T.M.S, Slice		
If other, detail:		
2. Medicines records available for inspection?	<input type="checkbox"/>	Y
3. Are records complete and correctly entered?	<input type="checkbox"/>	Y
4. Are fish in a withdrawal period?	<input type="checkbox"/>	Y
5. If yes, what treatment(s)?	<input type="checkbox"/>	T.M.S, Slice
If other, detail:		
6. Are medicines stored appropriately?	<input type="checkbox"/>	Y

Biosecurity Records

1. Biosecurity records available for inspection?	<input type="checkbox"/>	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	<input type="checkbox"/>	Y
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any <i>increased (unexplained)</i> mortality at the site been included?	<input type="checkbox"/>	Y
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	<input type="checkbox"/>	Y
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?	<input type="checkbox"/>	Y
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	<input type="checkbox"/>	Y
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	<input type="checkbox"/>	Y
8. Have the biosecurity procedures been adequately implemented on site?	<input type="checkbox"/>	Y
If no, detail:		

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	<input type="checkbox"/>	Y
2. If yes, are results available for inspection?	<input type="checkbox"/>	Y
3. Any significant results?	<input type="checkbox"/>	Y
If yes, detail (if not detailed under recent disease problems). AGD: 10/12 pcrs detected		

Records checked between:	06/10/2021-23/08/2023
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Case no: Site No: Date of visit/
 Sampling:

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

Pool/Fish No												
Fish nos	1-4	5-7	9-11	12-13								
Pool Group												
Species	SAL	SAL	SAL	SAL								
Average weight	370g	370g	370g	370g								
Sex	N/A	N/A	N/A	N/A								
Water Type	SW	SW	SW	SW								
Stock Details	Stock Origin	Barcaldine Smolt Unit (FS1328)	Barcaldine Smolt Unit (FS1328)	Barcaldine Smolt Unit (FS1328)	Barcaldine Smolt Unit (FS1328)							
	Facility No	4	8	9	7							

Case Number:	2023-0366	Site No:	FS0860	Insp:			
Date of Visit	23/08/2023	No of movements/supp./dest.			Score		
Live fish movements		0	1-5	6-10	>10		
Movements on (from out with GB) of susceptible species	Frequency of movements on from equivalent MS	0	5	10	14	0	
	Frequency of movements on from equivalent zone or compartment including third country	0	9	18	26	0	
	Number of suppliers	0	5	10	14	0	
Movements off	Frequency of movements off	0	3	6	10	10	
	Number of destinations	0	3	6	10	3	
Exposure via water		Site contacts			0	1-5	6-10
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0					
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2		4	2	
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3		6		
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4		8		
Management practices		None	Secure	Unsecure			
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1		2	0	
On farm processing within the rules of the directive	No on farm processing	0				0	
	Processing own fish (re-cycling risk)	1					
	Processing fish from MS of equivalent status	2					
	Processing fish from zone or compartment of equivalent status	4					
	Processing fish from Category III farm	8					
	Processing fish from Category V farm	10					
Disposal of fish and fish by-products	Site's own waste only processed.	0				0	
	Common processes with other farms	3					
	Collection point for waste from other farms	5					
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0	
	Feeding unpasteurised feed	5					
Biosecurity		Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating from single shorebase	0	1		2	2	
	Sites sharing staff and equipment	0	1		2	1	
Disinfection of equipment between sites, use of footbaths etc	Yes	0				0	
	No	1					
CoGP/Regulator							
Practices in accordance with regulator or industry code of practice	Yes	0				0	
	No	3					
Platform access to cages	Yes	0				0	
	No	2					
Total Rank					18	MEDIUM	

Case No: 2023-0366

Site No: FS0860

Sea Lice Inspection (Seawater Sites Only)

1. Has the site experienced sea lice problems in the previous 4 years?
2. Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis?
3. Does the site have access to a range of licenced in-feed and bath sea lice medications (including deltamethrin, azamethiphos and benzoate) as well as access to suitable biological and/or mechanical control measures, and can these be deployed in a reasonable time?
4. Is there a signed documented farm management agreement or statement relevant to the site and CoGP Farm Management Area (equivalent)?
5. Are sea lice count records available for inspection? (Legal SSI, CoGP Annex 6)
6. Do records adequately reflect the required standard specified in the SSI and the CoGP? (Legal SSI, CoGP Annex 6)
7. Are sea lice (*L. salmonis*) record levels below the suggested criteria for treatment in the CoGP during the period that records are (CoGP Annex 6)
8. Have average adult female sea lice (*L. salmonis*) numbers per fish been at a level of 3 or above (prior to w/b 10/6/19) or 2 or above (w/b 10/6/19) during the period that records are inspected?
If yes, have these been reported to the Fish Health Inspectorate? If no, FHI see comment.
9. Is *C. elongatus* infestation at a level which is considered to cause significant welfare problems? (CoGP 4.3.81, 5.3.50)
10. Have therapeutic treatments been administered or other actions taken when *L. salmonis* levels have exceeded the suggested treatment or where *C. elongatus* is considered to have welfare implications? (CoGP 4.3.82, 5.3.51)
11. Has any other action been taken (where applicable)?
12. Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded?
13. Are treatments, where conducted, carried out in cooperation between participating farms?
14. Is there a harvesting strategy for the site, where fewer populations or part populations are held without treatment for sea lice?
15. Is there a site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios of escalation of a sea lice infestation?
16. Do the sea lice levels observed on stocks reflect sea lice count data? If no please detail reasons.

Containment Inspection

1. Has the site experienced equipment damage due to predators in the current or previous production cycles?
2. Are measures in place to mitigate against the predation experienced on site? (Detail below)

If other, detail below:

50mm double bird net , tensioned nets, sapphire netting

3. Have escape incidents or events been experienced on or in the vicinity of the site since the last FHI inspection?

If Yes proceed with questions 4 – 9. If No skip to question 10

4. Have these been reported to Scottish Ministers?
5. Have these been reported to local DSFB forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
6. Have these been reported to the SSPO and local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.17)
7. Were methods (if any) used to recover escapees? If yes give detail

8. If gill nets were deployed was this action agreed with local wild fish interests and was permission given by Scottish Ministers? (Legal 4.4.38, 5.4.18)

9. What action was taken to prevent and minimise the risk of further escapes? (Not covered in code but could be considered under satisfactory measures of the Act)

10. Is the site inspected as satisfactory with regards to containment? If no, please detail reason(s)

	N
	N
id emamectin	Y
e period of	
a (or	Y
	Y
	Y
inspected?	Y
ove (from w/b	N
	N/A
	N
criteria for	Y
	Y
	Y
	N/A
	Y
os during the	Y
	Y
	N
	Y
	CI
	N
egal, CoGP –	
	Y

Case No: 2023-0366

Site No: FS0860

Date of Visit: 23/08/2023

Inspector: [REDACTED]

Point of Compliance

1. Is the farm under inspection located within a farm management area?

If N, no further questions require completion.

Points of Compliance for Both Farm Management Agreements and Statements

2. Has a current farm management agreement or statement (FMAg/S) been prepared?

3. Is the current FMAg/S available for inspection?

4. Does the FMAg/S identify the relevant farm management area?

5. Does the FMAg/S identify the fish farm site(s) to which it applies?

6. Does the FMAg/S identify the date of commencement of the agreement or statement?

7. Does the FMAg/S identify the date of review?

Arrangements for Fish Health Management

8. Does the FMAg/S identify the minimum health standards for the stocks to be introduced to the area or farm?

9. Does the FMAg/S identify the vaccination requirements for stocks held in the area or farm?

10. Does the FMAg/S identify the species of fish which may be stocked into the area or farm?

11. Does the FMAg/S identify the maximum stocking density of any pen on any farm in the area or the individual farm?

12. Does the FMAg/S identify the arrangements for the storage and disposal of any dead fish from any fish farm in the area or the individual farm?

Arrangements for The Management of Sea Lice

13. Does the FMAg/S identify arrangements for the sharing of data on sea lice numbers and treatments?

14. Does the FMAg/S identify the availability and the use of medicines on farms covered by the agreement of statement?

15. Does the FMAg/S identify any requirements for the sensitivity testing of available treatments for sea lice on farms in the area or individual farms?

16. Does the FMAg/S identify the circumstances under which biological controls and cleaner fish are to be used on farms in the area or individual farms?

17. Does the FMAg/S identify the arrangements for synchronous treatments on farms within the area?

Live Fish Movements

18. Does the FMAg/S identify the circumstances when live fish may be introduced or removed from the area or farm?

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

Harvesting

20. Does the FMAg/S identify acceptable harvest practices on farms in the area or individual farms?

Fallowing

21. Does the FMAg/S identify the dates by which the area or individual farm will be fallow and the earliest date when a farm or area may be restocked?

22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement?

23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?

Point of Compliance for Farm Management Agreements Only

24. Does the farm management agreement include arrangements for persons to become, or cease to be, parties to the agreement?

Management and operation

25. Is the fish farm being managed and operated in accordance with the agreement or statement?

26. What is the version no/date of issue of the FMAg/S?





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0125	DATE OF VISIT	23/08/2023
SITE No	FS0860	SITE NAME	Shapinsay
CASE No	20230366	INSPECTOR	[REDACTED]

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

All epidemiological units were inspected. 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.

Mortality levels had exceeded the reporting criteria since the last inspection and had not been reported to the Fish Health Inspectorate. I would like to remind you of the industry agreement in relation to mortality reporting as detailed in A Code of Good Practice for Scottish Finfish Aquaculture.

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

The site was also inspected in accordance with the Aquaculture and Fisheries (Scotland) Act 2007, as amended, with respect to section 3 regarding parasites (sea lice), section 4A regarding fish farm management agreements and statements and section 5 regarding containment and escapes.

On this occasion the site was found to be satisfactory with regards to parasites, fish farm management agreements and statements and containment and escapes.

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



Signed:

Date: 25/08/2023

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

Case No: 2023-0373 Date of visit: 22/08/2023

Time spent on site: 0 Main Inspector:

Site No: FS1244 Site Name: Strathclyde
Business No: FB0544 Business Name: Scotland

Case Types: 1 INF 2 3 4 5 6

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

Observations: Region: ST Water type: B 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.

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

Additional Case Information:

Information from 3rd party informing us of suspicion of KHV in garden pond.

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

FHI visit arranged for 23/8/23

No report issued

Case No: 2023-0375 Date of visit: 31/08/2023

Time spent on site: 1 hr Main Inspector:

Site No: SS0924 Site Name: Swinister Voe
Business No: SB0428 Business Name: Hunter Salmon (Shellfish)

Case Types: 1 ECI 2 3 4 5 6

Water Temp (°C): 12.8 Thermometer No: T148 FHI 045 completed

Observations: Region: SH Water type: S CoGP MA:

Dead/weak/abnormally behaving fish present? N If yes, see additional information/clinical score sheet.
Clinical signs of disease observed? N If yes, see additional information/clinical score sheet.
Gross pathology observed? N If yes, see additional information/clinical score sheet.
Diagnostic samples taken? N

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

Additional Case Information:

Low to medium fouling from seaweed on the first few meters of rope on the lines collecting spat.
Shells clean but medium seaweed and sea squirt fouling on the line holding the 2022 stock.
No movements on or off site since last inspection. Spat collected at site is grown and harvested at same site.

Case No: **2023-0375** Site No: **SS0924**
 Date of Visit: **31/08/2023** Inspector(s): **[REDACTED]**

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

Total No facilities	4	Facilities stocked	4	No facilities inspected	4
Species	MED	MED			
Age group	2022	2023			
No Fish	1 line	3 lines			
Mean Fish Wt	~30mm	spat			
Next Fallow Date (Site)	never fallow		Next Input Date (Site)	natural spat collection	
Recent (last 4 wks) disease problems?			N	Any escapes (since last visit)?	N/A
If yes, detail:	[REDACTED]				

Movement Records

- 1. Movement records available for inspection? **Y**
- 2. Date of last inspection: **18/07/2022**
- 3. Are records complete and correctly entered? **N/A**
- 4. Are movement records available for dead fish and waste? **N/A**
- 5. Are records complete and correctly entered? **N/A**
- 6. Are health certificates for introductions (outwith GB) available? **N/A**

Transport Records

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

Mortality Records

- 1. Mortality records available for inspection? **Y**
- 2. How are mortalities disposed of? **Other (detail)**
- If other detail: **Empty shells drop to seabed**
- 3. Mortality records complete and correctly entered? **Y**
- 4. Recent mortality (last 4 wks): **No increased mortality has been observed since last inspection**
- 5. Evidence of recent increased/atypical mortalities? **N**
- If yes, facility nos/no mortality per facility/no stock per facility/reason: **[REDACTED]**
- 6. Any other peaks in mortality during period checked? **N**
- If yes, detail: **[REDACTED]**
- 7. Have increased (unexplained) mortalities been reported to vet or FHI? **N/A**
- If yes, detail action: **[REDACTED]**
- 8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet. **N/A**

Treatments and Medicines Records

1. Recent treatments (see comment)?	
If yes, detail:	
If other, detail:	
2. Medicines records available for inspection?	
3. Are records complete and correctly entered?	
4. Are fish in a withdrawal period?	
5. If yes, what treatment(s)?	
If other, detail:	
6. Are medicines stored appropriately?	

Biosecurity Records

1. Biosecurity records available for inspection?		Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?		Y
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any <i>increased (unexplained)</i> mortality at the site been included?		Y
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?		Y
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?		Y
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?		Y
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?		N/A
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:	18/07/2022 - 31/08/2023
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FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0428	DATE OF VISIT	31/08/2023
SITE No	SS0924	SITE NAME	Swinister Voe
CASE No	20230375	INSPECTOR	[REDACTED]

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

All epidemiological units were inspected. 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 fourth 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:

Mortality records were inspected and found to be adequately maintained.

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

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

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

Signed:

[REDACTED]

Fish Health Inspector

Date: 05/09/2023

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot \(www.gov.scot\)](https://www.gov.scot/policies/fish-health-inspectorate/)

Case No: 2023-0376 Date of visit: 28/08/2023

Time spent on site: 1 hour Main Inspector: [redacted]

Site No: SS0826 Site Name: Firth of Forth Lobster Hatchery
Business No: SB0516 Business Name: The Firth of Forth Lobster Hatchery

Case Types: 1 ECI 2 [] 3 [] 4 [] 5 [] 6 []

Water Temp (°C): not taken Thermometer No: [] FHI 045 completed N/A

Observations: Region: LO Water type: S CoGP MA:

Dead/weak/abnormally behaving fish present? N If yes, see additional information/clinical score sheet.
Clinical signs of disease observed? N If yes, see additional information/clinical score sheet.
Gross pathology observed? N If yes, see additional information/clinical score sheet.
Diagnostic samples taken? N

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

Additional Case Information:

Berried female lobsters collected from fishermen May until August. - They are held for approximately 3 weeks before being notched and released at North Berwick. Only the adults that have been sponsored by a member of the public are released. If not sponsored they are returned to the fishermen. All juvenile lobsters are also released at North Berwick.

Juvenile lobsters are fed red plankton and copepods. Larvae red plankton and krill. Adults are not fed.

Lobsters are sourced for Seacliff fishing and Belhaven Lobsters

Morts 18/5/23 - 1 adult, 19/5/23 2 adults(low oxygen due to power failure), 2/6/23 20 juveniles. Larval mortality in 2022 due to bacterial issue in incubators.

Case No: **2023-0376** Site No: **SS0826**
 Date of **28/08/2023** Inspector(s) **[REDACTED]**

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

Total No facilities	3	Facilities stocked	2	No facilities inspected	3
Species	Lobster	Lobster			
Age group	Adult	Juvenile			
No Fish	1	300			
Mean Fish Wt	400g	<0.1g			
Next Fallow Date (Site)	within next 3 weeks		Next Input Date (Site)	June 2024	
Recent (last 4 wks) disease problems?			N	Any escapes (since last visit)?	N/A
If yes, detail:	[REDACTED]				

Movement Records

1. Movement records available for inspection? **Y**
 2. Date of last inspection: **25/05/2016**
 3. Are records complete and correctly entered? **Y**
 4. Are movement records available for dead fish and waste? **Y**
 5. Are records complete and correctly entered? **Y**
 6. Are health certificates for introductions (outwith GB) available? **N/A**

Transport Records

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

Mortality Records

1. Mortality records available for inspection? **Y**
 2. How are mortalities disposed of? **Domestic waste - <25kg**
 If other detail: **[REDACTED]**
 3. Mortality records complete and correctly entered? **Y**
 4. Recent mortality (last 4 wks): **nil**
 5. Evidence of recent increased/atypical mortalities? **N**
 If yes, facility nos/no mortality per facility/no stock per facility/reason: **[REDACTED]**
 6. Any other peaks in mortality during period checked? **Y**
 If yes, detail: **bacterial issue in one of the incubators holding larvae in 2022. Incubator fallowed then cleaned**
 7. Have increased (unexplained) mortalities been reported to vet or FHI? **N/A**
 If yes, detail action: **[REDACTED]**
 8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet. **N/A**

Treatments and Medicines Records

1. Recent treatments (see comment)?	<input type="checkbox"/>
If yes, detail:	<input type="text"/>
If other, detail:	<input type="text"/>
2. Medicines records available for inspection?	<input type="checkbox"/>
3. Are records complete and correctly entered?	<input type="checkbox"/>
4. Are fish in a withdrawal period?	<input type="checkbox"/>
5. If yes, what treatment(s)?	<input type="text"/>
If other, detail:	<input type="text"/>
6. Are medicines stored appropriately?	<input type="checkbox"/>

Biosecurity Records

1. Biosecurity records available for inspection?	<input type="checkbox"/>	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	<input type="checkbox"/>	Y
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any <i>increased (unexplained)</i> mortality at the site been included?	<input type="checkbox"/>	Y
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	<input type="checkbox"/>	Y
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?	<input type="checkbox"/>	Y
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	<input type="checkbox"/>	Y
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	<input type="checkbox"/>	Y
8. Have the biosecurity procedures been adequately implemented on site?	<input type="checkbox"/>	Y
If no, detail:	<input type="text"/>	

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	<input type="checkbox"/>	N
2. If yes, are results available for inspection?	<input type="checkbox"/>	
3. Any significant results?	<input type="checkbox"/>	
If yes, detail (if not detailed under recent disease problems).	<input type="text"/>	

Records checked between:	<input type="text" value="25/6/16- 28/8/23"/>
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Case Number:	2023-0376	Site No:	SS0826		
Date of Visit	28/08/2023	Inspector:			
Number of Susceptible species on site					
If no susceptible species present = LOW risk					
If susceptible species present, score for each pathogen					
		No	Yes		
	Susceptible to Bonamia ostrea (OED)	0	25		0
	Susceptible to Marteilia refringens (OED, MED)	0	3		
	Susceptible to OsHV (CGI)	0	3		
Sites within a tidal excursion					
		1	2-5	>6	
Site contacts	Number of sites holding susceptible species within a tidal excursion	0	2	10	0
Live shellfish movements					
		0	1-2	>3	
Movements on	Frequency of movements on from equivalent MS	0	5	10	0
	Frequency of movements on from equivalent zone or compartment including third country	0	10	20	
	Number of suppliers	0	5	10	
Movements off	Frequency of movements off <u>within</u> MSS Management Areas	0	1	2	2
	Frequency of movements off <u>outwith</u> MSS Management Areas	0	3	6	
	Number of destinations	0	3	6	3
Management practices					
		None	Secure (effluent treatment)	Unsecure (no effluent treatment)	
Water contacts with depuration facilities	Depuration of stock from own sites within MSS management area	0	1	2	0
	Depuration of stock from other businesses sites within MSS management area	0	2	6	
	Depuration of stock from sites outwith MSS management area	0	4	8	
Biosecurity					
	Number of sites	1	2 or 3	≥ 4	
Contacts with other sites	Sites operating from single shorebase	0	1	2	0
	Sites sharing staff and equipment	0	1	5	
		Yes No			
	Disinfection of equipment between sites, use of footbaths etc	0	2		2
				Total Risk	7 LOW



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0516	DATE OF VISIT	28/08/2023
SITE No	SS0826	SITE NAME	Firth of Forth Lobster Hatchery
CASE No	20230376	INSPECTOR	[REDACTED]

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

All epidemiological units were inspected. 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 fourth year. The category of the site will be reassessed on a routine basis and updated as required.

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

Signed:

[REDACTED]

Date: 12/09/2023

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at [Fish Health Inspectorate Service Charter - gov.scot](http://www.gov.scot) (www.gov.scot)