

Case No:	2023-0279	Date of visit:	27/06/2023			
Time spent on site:	1.5 hours	Main Inspector:				
Site No:	FS0121	Site Name:	Sourin Hatchery			
Business No:	FB0559	Business Name:	Orkney Trout			
Case Types:	1 ECI	2 CNI	3	4	5	6
Water Temp (°C):	15.2	Thermometer No:	Site	FHI 045 completed	N/A	
Observations:	Region:	OR	Water type:	F	CoGP MA:	
Dead/weak/abnormally behaving fish present?	Y	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:

Site inspected despite temperature being above 14 degrees C as the site was last inspected in 2015.

This is the first cycle of rainbow trout and the first time the site has been used since 2015. Inherited all equipment from previous owners. Not all tanks on site are currently useable due to some tanks being damaged (leaky) or from the previous owners removing valves. Water inlet system has 3 filters and the outlet system has one large 60 micron drum filter.

Approx. 60,000 eggs came onto site 23/12/2021 from Houghton Springs in Dorset. Owner transported eggs in his own car so no official transport records. Owner has been advised to complete transport records and do this for any future movements onto or off of site including waste transfer notes. Currently morts are being frozen on site and moved to SSF by the owner for disposal on approximately a monthly basis.

The only significant health issue occurred at the beginning of the cycle (began 14th February 2022). Increased mortalities (average >350 fish) occurred daily for the next two weeks – a total of 5,587 fish (9.31%). Fish were sac-fry at the time and so just fall below the reporting threshold for fish at this size. Treatment using formalin began on 28th February – 100ppm for 10 minutes. This was repeated for three days in a row and then fish were treated every Monday for 7 weeks with 200ppm for 10 minutes. Fish were then graded into different tanks. Over the course of the disease outbreak approximately 10,000 fish were lost. The delay in treatment was caused by a delay in identifying the problem as initially the owner believed the issue could have been food going off in the gut as the mortalities coincided with the start of first-feeding and heating of the tanks. No disease issues since and owner now does regular skin scrapings.

Mortality recording on Fish Talk began in April 2022 after the Costia outbreak (daily diary entries beforehand). Mortality of 2,505 fish since end of April 2022 to June 2023. Mortalities have either been runts or fish with swim bladder issues. Owner began to notice multiple fish swimming abnormally and histology tests were carried out. Results came in on 6/10/2022 with no significant findings although it was noted that some findings could be remnants of Costia. Vets believe these fish have a swim bladder abnormality which causes over inflation and could be a congenital issue. The issue only seems to cause mortality in the smaller fish.

Fish have only been vaccinated for enteric redmouth disease (immersion) under the vets advice.

Owner has concerns over fin issues despite the stocking density being well below the limit.

Fish are processed on site (whole fish, no gutting) and sold either locally in Orkney or in London.

On physical inspection of the site fish were in good health. A few fish with swim bladder issues were observed but keeping with the shoal and feeding well. Some fish had minor fin damage but nothing of concern.

Site is looking for approval to smoke fillets which will boost income and generate new business.

No current plan for the future. The site is currently having problems with water supply due to the unusual hot weather and the cost of electricity. At present the immediate plan is to empty the site and see how the financial situation is / the viability of having another cycle.

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Inspector(s):

Registration/Authorisation Details

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

Y
N

Site Details (include cleaner fish for all sections)

Total No facilities	32	Facilities stocked	16	No facilities inspected	32
Species	RTR				
Age group	2021				
No Fish	29,902				
Mean Fish Wt	308.3g				
Next Fallow Date (Site)	Within next 12 months	Next Input Date (Site)	No current plan		
Recent (last 4 wks) disease problems?		N	Any escapes (since last visit)?		N
If yes, detail:					

Movement Records

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

Y
24/02/2015
Y
N
N
N/A

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?

Y
N

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:

Other (detail)

Ensiled by scottish sea farms. As and when.

Last month: 53 fish (0.177%)

6. Any other peaks in mortality during period checked?

If yes, detail: See additional information

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

If yes, detail action:

Vet took histology samples to inspect mortalities due to swim bladder issues.

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

N/A

Treatments and Medicines Records

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

Biosecurity Records

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

Results of Surveillance

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

Records checked between:

24/02/2015 - 27/06/2023

Case Number:	2023-0279	Site No:	FS0121	Insp:		
Date of Visit	27/06/2023	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	0
	Number of destinations	0	3	6	10	
Exposure via water	Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species susceptible to same diseases)	Farm is protected (secure water supply through disinfection or borehole)	0				0
	Farm is on-line or in a coastal zone with category I farms upstream or within 1 tidal excursion	1	2	4		
	Farm is on-line or in a coastal zone with category III farms upstream or within 1 tidal excursion	1	3	6		
	Farm is on-line or in a coastal zone with category V farms upstream or within 1 tidal excursion	1	4	8		
Management practices		None	Secure	Unsecure		
Water contacts with processors	Any processing plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm processing	0				
	Processing own fish (re-cycling risk)	1				1
	Processing fish from MS of equivalent status	2				
	Processing fish from zone or compartment of equivalent status	4				
	Processing fish from Category III farm	8				
	Processing fish from Category V farm	10				
Disposal of fish and fish by-products	Site's own waste only processed.	0				
	Common processes with other farms	3				3
	Collection point for waste from other farms	5				
Use of unpasteurised feeds	No feeding of unpasteurised feed	0				0
	Feeding unpasteurised feed	5				
Biosecurity	Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating from single shorebase	0	1	2		0
	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					4	LOW

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Site No:

FS0121

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? ☐ N
2. Are measures in place to mitigate against the predation experienced on site? (Detail below) ☐ Y

If other, detail below:

Bird nets on surface of the tanks. Filtered 5mm mesh water inlet. Rat traps.

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

Date of visit: 27/06/2023

Inspector: [REDACTED]

[illegible]

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0559	DATE OF VISIT	27/06/2023
SITE No	FS0121	SITE NAME	Sourin Hatchery
CASE No	20230279	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 inadequately maintained.

Records in relation to aquaculture animals transported by the business were not available for inspection.

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.

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

- Site is required to maintain records for the removal of dead fish and waste. Records must include: date of movement; company and location of pick up and final destination and the number or weight of dead fish being transported.
- Site is required to maintain transport records which include: the number of animals that die during transport; all farm sites, fisheries and processing establishments which are visited in the course of transport; any water exchange in the course of transport; the source of any water introduced into the means of transport and the location at which any water from the means of transport is discharged.

These were addressed with the manager at the time of inspection and will be carried out in future. No further action is required.

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 assistance or clarification in implementing any requirement or recommendation detailed in this report.

Signed:



Date: 12/07/2023

Fish Health Inspector

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