

Case No: 2022-0184 Date of visit: 08/06/2022

Time spent on site: 3hrs Main Inspector:

Site No: FS0894 Site Name: Rubha Stillaig
Business No: FB0169 Business Name: The Scottish Salmon Company

Case Types: 1 ECI 2 CNI 3 SLA 4 VMD 5 6

Water Temp (°C): 13.6 Thermometer No: T308 FHI 045 completed

Observations: Region: ST Water type: S CoGP MA: M-42

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:

Site has stocked salmon and lumpfish. Salmon are from Landcatch (Ormsary), but transferred onto site from Gob a Bharra (FS0683) and lumpfish are from Otter Ferry and were input on 02/03/2022.

SAV was detected in pen 9 and 10. Pancreas Disease (PD) then was also found in pen 6. Feeding was slightly reduced with low levels of PD found across the site. Pen 9 and 10 are back on their feed fully and feeding well. Mortalities remain low even though PD has been detected. Vaccine has been noted to be helping. During site inspection, very few fish were seen hanging around the pens.

All harvests will be conducted as livehaul.

Lumpfish are culled at harvest but new procedures will see lumpfish being reduced after each cycle.

Lumpfish mortality:

from 06/06/2022 : 0.47%, 43

3.63%, 348

4.84%, 488

1.28%, 131

Paperwork and site inspected on 08/06/2022 by [REDACTED] and supervised by [REDACTED].

VMD samples were taken on 08/06/2022 by [REDACTED]. All fish sampled were found to be healthy.

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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	10	Facilities stocked	10	No facilities inspected	10
Species	SAL	LUM			
Age group	2021 S0	2022			
No Fish	274,600	9,158			
Mean Fish Wt	2.26kg	n/a			
Next Fallow Date (Site)	May 2023		Next Input Date (Site)	July/Aug 2023	
Recent (last 4 wks) disease problems?			Y Any escapes (since last visit)?		
If yes, detail:	SAV detected 2 months ago, low level PD on whole site.				

Movement Records

1. Movement records available for inspection? **Y**
 2. Date of last inspection: **07/02/2019**
 3. Are records complete and correctly entered? **Y**
 4. Are movement records available for dead fish and waste? **Y**
 5. Are records complete and correctly entered? **Y**
 6. Are health certificates for introductions (outwith GB) available? **N/A**

Transport Records

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

Mortality Records

1. Mortality records available for inspection? **Y**
 2. How are mortalities disposed of? **Other (detail)**
 If other detail: **Morts transferred to skip at the Stronahullin shorebase.**
 3. Mortality records complete and correctly entered? **Y**
 4. Recent mortality (last 4 wks): **2022: Wk 21, 205, 0.07%; Wk20, 814, 0.29%; Wk19, 801, 0.29; Wk18, 1099, 0.39%**
 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)? 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? Y
 If yes, detail (if not detailed under recent disease problems). AGD positive 05/05/2022, 6/11 samples.

In addition, SAV detected in house via RTPCR 22/03/2022 with 3/4 positive. Further screen conducted via histology, noting that mild IPN and SAV observed but inconclusive of Pancreas disease (PD).

Records checked between: 07/02/2019-08/06/2022

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

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

Pool/Fish No												
Fish nos	1	2	3	4	5							
Pool Group												
Species	SAL	SAL	SAL	SAL	SAL							
Average weight	2.5kg	2.5kg	2.5kg	2.5kg	2.5kg							
Sex	N/A	N/A	N/A	N/A	N/A							
Water Type	SW	SW	SW	SW	SW							
Stock Details		Gob a Bharra (FS0683)	Gob a Bharra (FS0683)	Gob a Bharra (FS0683)	Gob a Bharra (FS0683)	Gob a Bharra (FS0683)						
	Stock Origin											
Facility No	1	6	8	9	10							

06/2022 Additional Sample Information:

Total Tests assigned

Case Number:	2022-0184	Site No:	FS0894	Insp:		
Date of Visit	08/06/2022	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		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					20	MEDIUM

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Site No: **FS0894**

Sea Lice Inspection (Seawater Sites Only)

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

Containment Inspection

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

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? 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

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Inspector: [REDACTED]

Point of Compliance

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

Y

If N, no further questions require completion.

Points of Compliance for Both Farm Management Agreements and Statements

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

Y

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

Y

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

Y

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

Y

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

Y

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

Y

Arrangements for Fish Health Management

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

Y

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

Y

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

Y

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

Y

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

Y

Arrangements for The Management of Sea Lice

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

Y

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

Y

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

Y

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

Y

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

Y

Live Fish Movements

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

Y

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

Y

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?



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Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
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ENHANCED SEA LICE INSPECTION CHECKLIST

a. Inspection of sea lice records				
1.1 Are sea lice count records available for inspection?	Medium	Y	CoGP 1.2.1, 1.2.2,	
1.2 Do records adequately reflect the required standard specified in the SSI ¹ and the CoGP ² ? (Counts should be weekly, record the person making the count, date of the count, number of fish sampled (should be 25), pen or facility number recorded, water temperature ³ , number of parasites observed and correct stages recorded ⁴)	Low & Medium	Y	Annex 6 SSI 1,2,	
1.3 Where weekly counts are not conducted is the reason for not conducting the count stated?	Low	Y	SSI 1,2(g)	
1.4 Is that reason considered acceptable by the Inspector? Give detail.	Low	Y		
1.5 Has the site experienced sea lice problems in the previous 4 years?		N	Detail if necessary:	2017 numbers were above 2 from wk 5 to wk 17. Below the then-reporting threshold. Reporting levels came in to affect in July 2017, counts above 2 were before this period.
b. Inspection of records relating to treatment and control of sea lice				
2.1 Has appropriate action been taken where: a) <i>L. salmonis</i> record levels have been above the suggested criteria for treatment? b) <i>C. elongatus</i> infestation is at a level considered to cause significant welfare problems	High	Y	CoGP Annex 6	Caligus levels have been low on site
2.2 Is therapeutic treatment initiated ASAP where required?	High	N/A	CoGP 4.3.81, 5.3.50	
	Medium	Y	CoGP 4.3.130, 5.3.84	
2.3 Where medicines have been administered there should be a record of: the name / identity of the product the date of administration the quantity (concentration and amount) administered the method of administration of the product the identification of the fish / facilities treated name of the person administering the treatment the withdrawal period	High	Y	VMD ¹² 19 SSI 1,3	
	High	Y		
	High	Y		
	High	Y		
	High	Y		
	High	Y		
	Low	N/A		
	Medium	Y		
2.4 If the medicine is administered by a veterinary surgeon: the name of the veterinary surgeon name of the product batch number the date of administration amount administered identification of fish treated	High	N/A	VMD 18	
	High	N/A		
	High	N/A		
	High	N/A		
	High	N/A		
	High	N/A		

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
<p>withdrawal period</p> <p>2.5 Have therapeutic treatments or the actions taken had a significant impact upon the lice levels recorded?</p> <p>Inspect records to confirm. Significant impact - ≥50% reduction in site average <i>L. salmonis</i> numbers (all stages)</p> <p>2.6 If other methods are employed on site to control sea lice and their impact is there a record of:</p> <p>the nature and date of the method employed; the identification number of all facilities subjected to the method; the name of the person employing the method</p> <p>2.7 Where medicines have been acquired is there a record of:</p> <p>proof of purchase of the medicine concerned</p> <p>name of the product</p> <p>batch number</p> <p>the date of purchase</p> <p>the quantity purchased</p> <p>the name and address of the supplier</p> <p>2.8 Where medicines have been disposed is there a record of:</p> <p>the date of disposal</p> <p>the quantity of product involved</p> <p>how and where it was disposed of</p>	<p>Medium</p> <p>High</p> <p>Low</p> <p>Medium</p> <p>High</p> <p>High</p> <p>Medium</p> <p>High</p> <p>Medium</p> <p>Medium</p> <p>Medium</p> <p>Medium</p> <p>Medium</p> <p>Medium</p> <p>Medium</p>	<p>N/A</p> <p>Y</p> <p>Y</p> <p>Y</p> <p>Y</p> <p>Y</p> <p>Y</p> <p>Y</p> <p>Y</p> <p>Y</p> <p>Y</p> <p>N/A</p> <p>N/A</p> <p>N/A</p>	<p>SSI, 1,4</p> <p>VMD 19</p> <p>VMD 17</p> <p>VMD 19</p> <p>CoGP 4.3.129, 5.3.83</p> <p>CoGP 4.3.134, 5.3.88</p> <p>CoGP 4.3.135, 5.3.89</p> <p>CoGP 4.3.135, 5.3.89</p> <p>CoGP 4.3.133, 5.3.87</p> <p>Detail if necessary:</p>	<p>No lice problems so sea lice procedures are effective</p>
<p>c. Inspection of records relating to farm management groups and farm management agreements or statements</p>				
<p>3.1 Is there a nominated farmer acting as coordinator and point of contact for this farm or area inclusive of this farm?</p> <p>3.2 Is there a written undertaking that the farm will observe the provisions of the NTS⁶?</p> <p>3.3 Has an area group been formed within the area containing the site?</p>	<p>Low</p> <p>Low</p> <p>Medium</p>	<p>Y</p> <p>Y</p> <p>Y</p>	<p>SSI 1,5,b</p> <p>CoGP 4.3.75, 5.3.44</p> <p>CoGP 4.3.76, 5.3.45</p> <p>CoGP 4.3.77, 5.3.46</p>	<p>Treatment call twice a week with area manager and biology team</p>

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
<p>3.4 Does the remit of the area group have appropriate veterinary involvement? Consider: -agreed basis for monitoring sea lice -coordinated monitoring and treatment -co-operation between participating farms This may require follow up investigation conducted off site to determine</p>	Medium	Y	CoGP 4.3.77, 5.3.46 SSI 1,5, c	Emails available regarding outcome of treatment call.
3.5 Are records available of any decisions made by the FMG in relation to the prevention, control and reduction of parasites?	Low	Y	SSI 1, 5, c	
3.6 Where treatments have been administered is this done in accordance with principles to maximise the effectiveness of treatments, promote the minimal use of medicines consistent with the maintenance of high standards of fish welfare and help preserve their efficacy?	Medium	Y	4.3.82, 5.3.51	
<p>For example, the principles of ISLM include: Resistance monitoring – reporting suspected adverse drug event (SADE) to the VMD. The steps to determine if resistance is considered a reason for a suspected lack of efficacy (e.g. Bio-assay tests and results, seeking veterinary advice) Appropriate discharge consent in place Use of authorized medicines with veterinary instruction and advice as necessary Monitoring lice numbers Using an array of treatments where possible Treating all stocks on site at the same time Avoiding the simultaneous use of different active ingredients Avoiding consecutive treatments of the same active ingredient, and certainly not on the same cohort of lice Routine removal of moribund fish and regular removal of mortalities.</p>				
3.7 Are weekly monitoring results communicated to other farmers within the defined area?	High	Y	CoGP 4.3.78, 5.3.47	Regular meetings held to discuss sea lice
3.8 Is this done 'as soon as reasonably possible where lice numbers exceed the suggested criteria for treatment?	High	Y	CoGP 4.3.79, 5.3.48	
3.9 Is sea lice data and other information relevant to the management of sea lice provided to the SSPO?	Low	Y	CoGP 4.3.80, 5.3.49	
3.10 Are annual review meetings held by FMA groups to evaluate site performance against set criteria?	High	Y	CoGP 4.3.83, 5.3.52	
3.11 Is there a signed documented farm management agreement or farm management statement relevant to the site and CoGP Farm Management Area (or equivalent)?		Y	AFSA ¹³ 4A Detail if necessary: CoGP 4.3.88, 5.3.57	
3.12 Are up to date copies of FMS available from other APB operating within the same FMA?	Medium	N/A	CoGP 4.3.88, 5.3.57	
3.13 Are significant changes to FMS notified to other companies within the FMA?	Medium	Y	CoGP 4.3.89, 5.3.58	

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
3.14 Is there co-operation between APB's operating within the FMA in the development and implementation of FMAg?	Medium	Y	CoGP 4.3.90, 5.3.59	
3.15 Are copies of FMS or FMAg available for inspection?	Medium	Y	AFSA 4B	
3.16 Does the FMS or FMAg take into account the relevant aspects regarding a sea lice control strategy?	Medium	Y	CoGP 4.3.91, 5.3.60	
3.17 If the FMA has been redefined, is there documented evidence to demonstrate that the risks to health within and outwith the area is not increased by the proposal?	High ¹⁰	N/A	CoGP 4.3.92, 5.3.61	
3.18 Is the CoGP Farm Management Area (or equivalent) fallowed synchronously on a single year class basis?	High	Y	CoGP 4.3.100	
3.19 If answered no to 3.18, then is there a documented risk assessment which meets the requirements of CoGP point 4.3.101?	High	N/A	CoGP 4.3.101	
d. Inspection of records relating to training and procedures				
4.1 Is there a training programme or plan in place relevant to sea lice control for the site?	High	Y	CoGP 7.1.8	
4.2 Are training records available for relevant staff in relation to:			CoGP 4.1.6, 5.1.6	
parasite identification	High	Y	SSI, 1,1	
counting parasites (procedures for)	High	Y	CoGP 4.3.84-86,	
recording counts	High	Y	5.3.53-55	
biology and life cycle of parasites	Low	Y		
symptoms of parasite infection in fish	Low	Y		
4.3 Have staff been trained in the administration of treatments?	High	Y	CoGP 4.1.6, 5.1.6	only two individuals on site that are able/trained to do it. Restrictive training.
N.B. there is no legal requirement to maintain a record of this			CoGP 4.3.84, 5.3.53	
Where records exist regarding SOPs and site procedures these should be inspected to confirm suitability				
e. Inspection of site and site stock				
5.1 Are medicines used, stored and disposed of safely?	Medium	Y	VMD schedule 5	
5.2 Do the sea lice levels observed on stocks reflect sea lice count data?	High	Y		
Refer to section e) of guidance notes				
5.3 Does the site appear satisfactory in terms of fish welfare relating to sea lice infestation?	High	Y		
f. Inspection of farm count procedures				
6.1 Are pens and fish sampled at random?	Low	Y	CoGP Annex 6,	All pens sampled weekly
6.2 Have the personnel conducting counts had appropriate training in lice recognition and recording?	High	Y	4.3.84-86, 5.3.53-55	
(Cross reference to training records – Section d)				
6.3 Can such personnel demonstrate post training competence?	High	Y	CoGP 4.3.85, 5.3.54	
6.4 Do the sample sizes and methods of sampling match the CoGP suggested protocol (detailed iii – vii)?	Medium	Y	Annex 6	
N.B. Other strategies are acceptable if considered adequate in the control and reduction of sea lice				

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
<p>6.5 Is identification and recording of sea lice count information including species and stages observed to be correct? Minimum recording requirements within the CoGP and NTS are: for <i>Caligus elongatus</i> all identifiable stages and for <i>Lepeophtheirus salmonis</i> chalimus, mobiles and adult females (with or without egg strings)¹¹</p>	High	Y	Annex 6	
<p>6.6 Is the transfer of data from field counts to records observed to be satisfactory?</p>	Medium	Y		
g. Inspection of treatment administration procedures				
<p>7.1 Are treatments considered to be administered in an appropriate competent manner? Consider appropriate use of tarpaulins; completion of medication per prescription, correct concentrations, mixing and administrations, appropriate product used</p>	High	N/A		
<p>7.2 Is accurate information provided to the attending veterinary surgeon for dosage calculation?</p>	High	Y	CoGP 4.3.131, 5.3.85	fish are only in withdrawal for T.M.S
<p>7.3 Are the fish under consideration being given any other medication, or are they in a withdrawal period for any other medication?</p>		N		
<p>7.4 If so, has the prescribing veterinary surgeon been informed of this?</p>	Medium	Y	CoGP 4.3.132, 5.3.86	
<p>7.5 Are clear instructions for medication, dosage and administration communicated to the staff responsible for treatment?</p>	High	Y	CoGP 4.3.133, 5.3.87	

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

Point for consideration	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
[1] Scottish Statutory Instrument – The Fish Farming Businesses (Record Keeping) (Scotland) Order 2008				
[2] A Code of Good Practice for Scottish Finfish Aquaculture				
[3] Water temperature to be measured at the half way point of the depth of the facility containing the fish, or as close to as possible. For SW cage sites one reading per count may be s				
[4] Recording requirements:- for <i>C. elongatus</i> – all identifiable stages and for <i>L. salmonis</i> - mobiles and adult females (with or without egg strings)				
[5] Area refers to management area as specified within Part 3 of the industry CoGP or as redefined appropriately				
[6] For reference Annex 6 of the CoGP provides the detail of the NTS				
[7] FMA = Farm Management Area				
[8] FMS = Farm Management Statement				
[9] FMAg = Farm Management Agreement				
[10] No further action may be required when answering no to this point and yes to 3.18				
[11] Legal recording requirements within the SSI stipulate – for <i>Caligus elongatus</i> : mobiles; and for <i>Lepeophtheirus salmonis</i> : non-gravid mobiles and gravid females.				
[12] VMD - The Veterinary Medicines Regulations 2013 (SI 2013 No 2033)				
[13] AFSA - Aquaculture and Fisheries (Scotland) Act 2007 (as amended)				

Case No: 2022-0184

Date of visit: 08/06/2022

Site No: FS0894

Inspector: [REDACTED]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp

Report Summary			
Case Type	Date	Insp	2 nd Insp
ECI, CNI, VMD	13/06/2022		
SLA	13/06/2022		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0169	DATE OF VISIT	08/06/2022
SITE No	FS0894	SITE NAME	Rubha Stillaig
CASE No	20220184	INSPECTOR	[REDACTED]

ENHANCED SEA LICE INSPECTION

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

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

a) Inspection of sea lice records

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

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

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

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

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

d) Inspection of records relating to training and procedures

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

e) Inspection of site and site stock

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

f) Inspection of farm count procedures

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

g) Inspection of treatment administration procedures

An inspection of treatment administration procedures was carried out. The site meets the requirement of current Scottish industry best practice. No further recommendations made, or further action required.

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



Signed:

Date: 13/06/2022

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0169	DATE OF VISIT	08/06/2022
SITE No	FS0894	SITE NAME	Rubha Stillaig
CASE No	20220184	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.

Mortality records were inspected and found to be adequately maintained.

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

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.

R25

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

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

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

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



Signed:

Date: 16/06/2022

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/>

Case No: Date of visit:

Time spent on site: Main Inspector:

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

Case Types: 1 2 3 4 5 6

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

Observations: Region: ST Water type: F CoGP MA

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

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

Additional Case Information:

CNA following Escape Investigation 2022-0065, with regards to the potential escape of RTR in Loch Awe.

Paperwork completed 01/06/2022 by [REDACTED], shadowed by [REDACTED].

Water peaty and dark, difficult to observe the net below the waterline. 2 lifted empty nets examined and no repairs and holes observed. This is reflected in the records with a lot of zero return net checks. Site manager observed that from experience from the site the nets don't get as much wear on them as in seawater lochs. Majority of nets have been upgraded to 152kg breaking strength. This is significantly over what is required. All older nets that are currently on site are planned to replace when the cage are harvested out. 2 Dead fish observed in in 2 pens. Overall populations looking very healthy. Fish get harvested at 3-3.5kg mark and they aim to have all larger fish harvested over the next weeks to avoid holding large fish in the hot months over the summer, as these are more susceptible to the warmer temperatures. Water temperature can get very warm in the loch over the summer. Pipes in place for regular harvests taking place are covered in extra netting as a precautionary measure in case pipes burst. All new nets on site have a double layer of mesh at the top 1 m above the water line, extending to 1 m below the waterline. This is mostly in place to deter otters and avoid any damage they might cause near the waterline.

Net strength testing record and procedure received and checked 30/09/2022.

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="28"/>	Facilities stocked	<input type="text" value="26"/>	No facilities inspected	<input type="text" value="28"/>
Species	<input type="text" value="RTR"/>	<input type="text" value="RTR"/>	<input type="text" value="RTR"/>		
Age group	<input type="text" value="2019"/>	<input type="text" value="2020"/>	<input type="text" value="2021"/>		
No Fish	<input type="text" value="40,000"/>	<input type="text" value="210,000"/>	<input type="text" value="20,000"/>		
Mean Fish Wt	<input type="text" value="3.4kg"/>	<input type="text" value="1.7kg"/>	<input type="text" value="358g"/>		
Next Fallow Date (Site)	<input type="text" value="none"/>		Next Input Date (Site)	<input type="text" value="June 2022"/>	
Recent (last 4 wks) disease problems?			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)?

If yes, detail:

If other, detail:

2. Medicines records available for inspection?

3. Are records complete and correctly entered?

4. Are fish in a withdrawal period?

5. If yes, what treatment(s)?

If other, detail:

6. Are medicines stored appropriately?

Biosecurity Records

1. Biosecurity records available for inspection?

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

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

Case No: 2022-0191 Site No: FS0268

Date of visit: 07/06/2022 Inspector(s):

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary	
ENHANCED CONTAINMENT INSPECTION (FRESHWATER)					
a. Enquiry relating to i) escape incidents and ii) contingency procedures					
1.1. Have escape incidents or events[1] been experienced on or in the vicinity of the site since the last MSS inspection?		N		The site does not suspect an escape has occurred, however Rainbow Trout have been caught in Loch Awe. Another Rainbow trout farm operates in the Loch from the same company but no escapes are suspected there either.	
If yes answer 1.2-1.8:					
1.2. Have appropriate reports been made to Scottish Government within 24 hours of discovery?	High		AAAH 31D,E		
1.3. Have these been reported to the SSPO[2] and, where in existence, the local DSFB and fisheries trust?	Medium		CoGP 2.4.31, 3.4.39		
1.4. Were methods (if any) used to recover escapees? If yes give detail					
1.5 Was the decision to attempt to recapture and the method employed agreed with the local DSFB and FT	Low		CoGP 2.4.32, 3.4.40		
1.6. Was permission sought from Marine Scotland prior to recapture?	Medium		CoGP 2.4.32, 3.4.40		
1.7 Were the gill nets deployed of appropriate mesh size with regard the size of the escaped fish?	Low		CoGP 2.4.32, 3.4.40		
1.8. In light of the escape event, has appropriate action been taken to prevent and minimise the risk of further escapes?	High				
1.9. Is there a site specific contingency plan in response to failures in containment, aimed at preventing escapes and recovering escaped fish?	High	Y	CoGP 2.4.28, 3.4.36 SSI, 2,9	Escapes Contingency Plan in place, mitigation measures considered for all operation conducted on site, details of all contact to inform in case of escape or suspected escape noted in the plan.	
b(i). Inspection of records relating to equipment, facilities and the site					
General records				ROV net checks try to do every 6 weeks but are done before every operation that involves crowding. Mooring checks done by diver, video provided.	
2.1 With regard to each facility, net, screen and mooring at each site, a record should be maintained of:-			SSI 2,1		
			Facilities	Moorings	Nets

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary	
a) The name of the manufacturer	Low	Y	Y	Y	Pens and Moorings from Kames, Nets mostly Boris nets, some older Hvalpsund nets 2014 (Dyneema) these are getting replaced with Boris nets as the pens get harvested. All nest on site Dyneema.
b) Any special adaptations	Low	Y	N/A	Y	
c) The name of the supplier	Low	Y	Y	Y	
d) The date of purchase	Low	Y	Y	Y	
e) Each inspection including					
i) the name of the person conducting the inspection	Low	Y	Y	Y	
ii) the date of each inspection	Medium	Y	Y	Y	
iii) the place of each inspection	Low	Y	Y	Y	
iv) the outcome of each inspection	High	Y	Y	Y	
f) the date and result of each repair, equipment test and antifouling treatment carried out	High	Y	Y	Y	
2.2. In relation to each net a record of:					Cages: no repairs required. Daily check sheets, signed off for checks on cages, moorings, net check at waterline.
i) The mesh size	Medium	Y	SSI, 2,2		
ii) The code which appears on the identification tag	Medium	Y			
iii) The place of use, storage and disposal	Medium	Y			
iv) The depth of water between the bottom of the net and the seabed as measured at the mean low water spring	Low	Y			
2.3. In relation to each facility a record of:					
i) The date of construction	Low	Y	SSI, 2,3		
ii) The material used in construction	Low	Y			
iii) Its dimensions	Low	Y			
2.4. In relation to each mooring a record of-			SSI, 2,4		
i) The date of installation	Low	Y			
ii) The design and weight of the anchors	Low	Y			
iii) The length of the mooring ropes or chains	Low	Y			
2.5. A record of any navigation markers deployed at each site at which fish are farmed	Low	N/A	SSI, 2,5		
2.6 In respect of sites at which fish are farmed in inland waters[3]			SSI, 2,6		
a) The type, method of and date of construction of any flood prevention or flood defence measures in place	Low	N/A			
b) The date of and results of any tests conducted on any such measures	Low	N/A			
c) The date of any incident where the site was flood	Low	N/A			
d) The water course height during any such flood incident	Low	N/A			
2.7 A record of-			SSI, 2,7		

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
a) The date of any severe weather event which caused damage to any facility, net or mooring	Medium	Y	SSI, 2,11 (a)	Record kept in site diary. Check on site e.g 9th March 2022 (damage to walkway, secured the same day, no risk to containment on site) No note on date of repair. Net checks, have notes on storm check by ROV checking nets after storms.
b) Any action taken to rectify any such damage	High	Y	SSI, 2,11 (b)	
Pen and mooring systems				
2.8 Can the site demonstrate evidence that pens and moorings are designed, manufactured and installed suitable for purpose at the location of the site?	High	Y	CoGP 3.4.11	Mooring inspection: certificates seen, Cages: checked in house on daily basis all nets now sourced from Boris Nets
2.9 Are pen systems inspected and approved by suitably qualified / experienced person(s)?	High	Y	CoGP 3.4.12	
2.10 Can the site demonstrate evidence that all nets have been designed and manufactured under the control of a Quality Management System to ensure they provide containment for the whole of their working life?	High	Y	CoGP 3.4.13	
2.11 Are all screens inspected daily and relevant action taken? Are records maintained of inspection frequency and the outcomes?	High	N/A	CoGP 2.4.17, 2.4.18	Replacement policy states that nets need to be sent away for full inspection and testing. Currently site uses 2 nets that are older than 7 years, these are currently in use as smaller than anticipated fish were delivered to the site. Use was risk assessed and the risk of possibly under sized fish in the population was judged to be greater than the risk of the nets having deteriorated below braking strength as these were last tested well above the breaking strength. (Net ID 2714 and 2848)
2.12 Are screens constructed from a suitably strong and robust material, and therefore fit for purpose?	High	N/A	CoGP 2.4.19	
2.13 Can the site demonstrate awareness of the minimum net strengths to be used at all times?	High	Y	CoGP 3.4.14	
2.14 Does the site have a documented net replacement policy based on meeting the minimum strength requirements?	High	Y	CoGP 3.4.15	
2.15 Does the site use nylon nets older than 5 years?	High	N	CoGP 3.4.16	
2.16 Can site managers demonstrate awareness of the minimum fish size supplied where new stock is introduced?	High	Y	CoGP 3.4.18	
2.17 Have nets been treated with UV inhibitor?	Low	Y	CoGP 3.4.19	
2.18 Are nets stored away from direct sunlight and vermin when not in use?	Low	Y	CoGP 3.4.20, 3.4.21	
				All dyneema nets.
				Normally don't store a lot of nets. Currently storing some nets as they are new acquisitions that will be deployed when this fits in with the production of the fish.

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
2.19 Can the site demonstrate evidence of nets being inspected and strength tested after each cycle by a competent person?	High	N	CoGP 3.4.22	Fish are on site approximately 13-14 months. SOP states annual strength testing to be done. Annual net strength test have not been done since 2019 due to COVID, thought the company would start up again but this not the case. Will start doing their net strength testing in house going forward. The nets used on site have specifications for SW sites so are many times over the required braking strength and due to them being used in FW no issues have been experienced. Nets are checked by site staff daily visually and, regular ROV inspections are done in house with their own ROV. All nets are checked before they are deployed. Company aiming to get in house strength testing in done in the next few weeks. Strength testing certificates from 2019 inspected.
2.20 Is in accordance with a detailed procedure based on manufacturer's advise and using a documented quality control system?	High	N	CoGP 3.4.22	Company has SOP in place for in-house strength testing. And net records already have a field to record these.
2.21 Do the net inspections include representative sections from:			CoGP 3.4.23	No strength testing has taken place since 2019.
a) net base	High	N		ROV net inspections cover the entire net.
b) side wall	High	N		
c) above the waterline	High	N		
2.22 Are nets visually inspected on a daily basis?	High	Y	CoGP 3.4.24	Daily inspection sheet.
2.23 Are additional inspections undertaken following adverse weather where required?	High	Y	CoGP 3.4.25	Site manager can't recall a time when the site hasn't been checked daily even in poor weather.
b(ii). Inspection of records relating to training				
3.1 Are training programmes and plans relevant to the various onsite activities documented?	High	Y	CoGP 7.1.8	
3.2 Are all staff fully aware of the importance of containment and best practice?	High	Y	CoGP 7.4.7	
3.3 Is there a satisfactory record of all training and qualifications for each person working in the site in relation to any helicopter operations?	High	N/A	CoGP 2.4.27, 3.4.33	No work undertaken with helicopters.
3.4 Is there a satisfactory record of all training and qualifications for each person working at the site in relation to any boat operations?	High	Y	CoGP 3.4.35 SSI 2,6,a	

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
3.5 With respect to any transfer of or handling of fish is there a record of all training of each person working on site in relation to containment and prevention of escape of fish, and recovery of escaped fish?	High	Y	SSI 2,7, a ; CoGP 2.4.29, 3.4.37	Transfers, crowding, harvesting and escapes contingency - all staff signed off
b(iii). Inspection of records relating to procedures and risk assessments				
4.1 Are procedures which could increase the risk of fish escaping considered to be carefully planned and supervised to minimise risk?	High	Y	CoGP 2.4.6, 3.4.8, 2.4.7, 3.4.9	Site staff signed off for specific work. Mitigation measures in place. Risk Assessment in place with all operations covered. Escapes Contingency Plan has descriptions and mitigation measures in place for different procedures. Covers any event that may increase chance of increased risk of containment failure.
4.2 Before procedures are conducted on site, are the following in place: a) a documented risk assessments b) standard operating procedures c) contingency plan	High High High	 Y Y Y	CoGP 2.4.23, 3.4.27 SSI 2,7, b SSI 2, 8, c	
4.3 Is the integrity of all handling equipment checked, including pipelines, pumps, transport tanks, graders, counters and vaccination stations, before fish are handled?	High	Y	CoGP 2.4.24, 3.4.28	
4.4 Do these checks include the suitability of the above equipment for use during adverse weather conditions where appropriate?	High	N/A	CoGP 2.4.25, 3.4.29	Part of the checklist for grading, and harvest (this has recently been improved to include check box). No procedures conducted in adverse weather conditions. Site located in sheltered fresh water loch so adverse weather conditions less of a factor. Nets lifted by hand, so operation limited by safety concerns for staff, before suitability of equipment becomes an issue.
4.5 Are mitigation measures such as safety nets, security devices, or bunding used at potential risk points, such as pipe connections?	High	Y	CoGP 2.4.26, 3.4.30	All pipes fitted with netting. Raft for harvesting up to the handrails is netted to insure complete containment. Intake pipes are shrink wrapped for UV protection to increase the life of pipes. Transfers on site are done with swim throughs.
4.6 In relation to any boat operations at each site at which fish are farmed is there a record of -The type and size of each boat used for operations on the site	Low	Y	SSI 2,6,b	No propeller guards fitted.
- The type and size of any propeller guard fitted to each boat used on the site	Low	N/A	SSI 2,6,c	
4.7 Does the site suffer from regular or heavy predation?		N		Otter, Herons, Cormorants
4.8 Are there records of site specific risk assessments ascertaining the risk and impact of predator attack?	Medium	Y	2.4.7, 3.4.9	

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
4.10 A record of any anti-predator measures undertaken at each site at which fish are farmed including -The type and location of each net, fence and scarer deployed - The use of lethal means by any person involved in operations on the site	Medium	Y	SSI, 2,8,a	No lethal means used to control. Don't use that type of predator nets.
4.11 Where predator nets are deployed is this done in such a manner as to reduce the likelihood of access by predators? For example, see requirements of Annex 7.	Low	N/A	SSI, 2,8,b	
	Low	N/A	3.5.34-37 2.5.34-37	
c. Inspection of site and site equipment				
5.1 Are there any obvious containment issues on the site?	High	N	CoGP 2.4.9, 2.4.10, 2.4.11 CoGP 2.4.12 CoGP 2.4.14 CoGP 2.4.15 CoGP 2.4.20 CoGP 3.4.17 CoGP 3.4.34	Top nets on all cages.
5.2 Can the site demonstrate evidence that the site is not located within an area likely to be affected by flood, or suitable flood defences in place?	High	N/A		
5.3 Does the site have effective measures in place to prevent fish from jumping out of holding facilities into surface waters or natural water courses?	High	Y		
5.4 Is the site inflow system designed to prevent any upstream escape of farm stock?	High	N/A		
5.5 Are the screen sizes capable of containing the entire range of fish sizes within the unit in every instance?	High	N/A		
5.6 In the case of a land-based aquaculture system, are there two screens incorporated into the outflow system of a suitable size to prevent the passage of fish in all potential water conditions?	High	N/A		
5.7 Does the net mesh size contain the entire range of fish sizes in every instance of the species involved?	High	Y		
5.8 Are boat operations conducted in a manner which avoids damage to nets and pens?	High	Y		
d. Inspection of site specific procedures				
6.1 Are nets visually inspected on a daily basis including prior to and during the stocking, moving or crowding of fish?	High	Y	CoGP 3.4.24	Based on record checks and SOPs seen on site.
6.2 If helicopter transfer of fish is conducted are receiving pen(s) properly prepared:- a) pens should be marked with buoys clearly visible from the air	High	N/A	CoGP 3.4.31	No site specific procedures observed at the time of the visit.

Point of compliance	Risk level	Satisfactory?	Requirement	Comments and advice given or action taken if necessary
b) radio contact between farm staff and helicopter crew should be maintained or where this is not possible, pens receiving fish should be manned	High	N/A	CoGP 3.4.32	

Additional actions	Powers	Comments and advice given or action taken if necessary
e) Collection of samples If necessary collect samples. Indicate if samples have been taken and detail what those samples are and the purpose of their collection	Power granted under the Act – section 5 (3) (a)	
h) Enforcement Notice. If an enforcement notice has been issued then maintain a copy / duplicate and record detail Guidance on completing the Enforcement Notice	Power granted under the Act – Section 6 (2)	

[1] An 'escape event' can be defined as any circumstances on or in the vicinity of a fish farm which are believed to have caused an escape, or which may have given rise to a significant risk of an escape of fish.

[2] FHI interpretation – Informing the SSPO is only a requirement where the site belongs to an Authorised Production Business which is signed up to the CoGP.

[3] being waters which do not form part of the sea or any creek, bay or estuary or of any river as far as far as the tide flows

Case No: **2022-0191** Date of visit: **07/06/2022**
 Site No: **FS0268** Inspector: **[REDACTED]**

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp

Report Summary			
Case Type	Date	Insp	2 nd Insp
CNA	17/07/2022		
Issue raised	17/07/2022		
case closed	20/10/2022		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0456	DATE OF VISIT	07/06/2022
SITE No	FS0268	SITE NAME	Tervine
CASE No	20220191	INSPECTOR	[REDACTED]

ENHANCED CONTAINMENT INSPECTION

An enhanced inspection to ascertain the risk of escape from the fish farm was conducted in accordance with the Aquaculture and Fisheries (Scotland) Act 2007.

The visit consisted of an inspection of facilities, records and the provision of advice.

a) Inspection of i) escape incidents and ii) contingency procedures

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

b)i) Inspection of records relating to equipment, facilities and the site

The following recommendations are made for improvement.

It is recommended that net inspection and strength testing must be carried out following a documented procedure based on manufacturers advice and using a quality control system in accordance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) (Chapter 3, point 4.22).

It is also recommended that net testing should be undertaken from representative sections in the net base, side wall and above the waterline, in accordance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) (Chapter 3, point 4.23).

b)ii) Inspection of records relating to training

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

b)iii) Inspection of records relating to procedures and risk assessments

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

c) Inspection of the site and site equipment

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

R10

d) Inspection of site specific procedures

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

Further Action

The recommendations in this report should be implemented by 16/09/2022. Documentation should be provided as evidence that the recommendations have been implemented. Enforcement action may result if the recommendations are not implemented in the necessary time frame. Records should be sent to Marine Scotland Science's Fish Health Inspectorate (FHI) (contact details are provided below).

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

Signed:



Date: 16/06/2022

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No FB0456 **DATE OF VISIT** 07/06/2022
SITE No FS0268 **SITE NAME** Tervine
CASE No 20220191 **INSPECTOR** [REDACTED]

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

Records

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

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

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

- FS numbers must be recorded in the source/destination section of the movement record book, to allow for better traceability of stocks. It was discussed with the site manager that this would be recorded in future.

These must be addressed to ensure the conditions of authorisation for your Aquaculture Production Business (APB) are being met. Records or documentation demonstrating that these points have been addressed should be sent to the Fish Health Inspectorate (contact details below) within 30 days of the date this report was issued.

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

Signed:



Fish Health Inspector

Date: 16/06/2022

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0456	DATE OF VISIT	07/06/2022
SITE No	FS0268	SITE NAME	Tervine
CASE No	20220191	INSPECTOR	[REDACTED]

Case completion report

Recommendations in relation to the above case were made for implementation by 16 September 2022. Following submission of the required documentation, evidence has now been provided to Marine Scotland to demonstrate that the recommendations have been implemented.

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

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

Signed:



Fish Health Inspector

Date: 20/10/2022

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

Case No: Date of visit:

Time spent on site: Main Inspector:

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

Case Types: 1 2 3 4 5 6

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

Observations: Region: ST Water type: S CoGP MA M-40

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:

Paperwork and site inspection conducted by [REDACTED], observed by [REDACTED].

The site is usually stocked with 12 pens, however upon input fish tested positive for RMS and the stock was thinned into an extra pen. Following input fish were treated with freshwater and oxytet which has since cleared the site for RMS. Site have plans in place to remove the 13th pen by grading its stock into the remaining 12 pens.

Site recently treated for sea lice in March 2022, the treatment included a round of Salmosan followed by an AMX treatment. Week 52, 2021 and Week 9, 2022 the AF sea lice counts were slightly above the CoGP suggested criteria for treatment but returned well below following immediate treatment.

Waste is ensiled on site and collected by [REDACTED].

Access to sea lice treatments (Salmosan, AMX, Slice) and access to mechanical treatment boat if required in partnership with MOWI. Rainbow trout sites are not permitted to stock cleaner fish.

A few mortalities observed in some pens as mortalities had yet to be removed that day. Fish appeared healthy and feeding well. Visual inspection of fish showed no signs of sea lice. A high number of runts observed in pens 4 and 10. Runts to be removed at grading over the next few weeks.

Case No: **2022-0192** Site No: **FS0356**
 Date of Visit: **08/06/2022** 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	13	Facilities stocked	13	No facilities inspected	13
Species	RTR	RTR			
Age group	2021	2022			
No Fish	369,887	307,000			
Mean Fish Wt	1.3kg	420g			
Next Fallow Date (Site)	September 2023		Next Input Date (Site)	Nov 2023	
Recent (last 4 wks) disease problems?			N	Any escapes (since last visit)?	N
If yes, detail:					

Movement Records

- 1. Movement records available for inspection? Y
- 2. Date of last inspection: **20/09/2021**
- 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? **Biogas - Barkip**
- If other detail: **ensiled on site**
- 3. Mortality records complete and correctly entered? Y
- 4. Recent mortality (last 4 wks): **Year 2022: Week 22 - 0.12% (431); Week 21 - 0.15% (557); Week 20 - 0.13% (497); Week 19 - 0.14% (504)**
- 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: **2021 wk48 - 0.75% (2,948)**
- 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/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)? | 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:	20/09/2021 - 08/06/2022
--------------------------	-------------------------

Case Number:	2022-0192	Site No:	FS0356	Insp:		
Date of Visit	08/06/2022	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	0
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		2
On farm processing within the rules of the directive	No on farm processing	0				
	Processing own fish (re-cycling risk)	1				1
	Processing fish from MS of equivalent status	2				
	Processing fish from zone or compartment of equivalent status	4				
	Processing fish from Category III farm	8				
	Processing fish from Category V farm	10				
Disposal of fish and fish by-products	Site's own waste only processed.	0				0
	Common processes with other farms	3				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		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					10	LOW

Case No: **2022-0192**

Site No: **FS0356**

Sea Lice Inspection (Seawater Sites Only)

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

Containment Inspection

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

Top Nets Tensioned Nets Predator Bases

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: 2022-0192

Site No: FS0356

Date of Visit: 08/06/2022

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?



Case No: **2022-0192** Date of visit: **08/06/2022**
 Site No: **FS0356** Inspector: **[Redacted]**

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp

Report Summary			
Case Type	Date	Insp	2 nd Insp
ECL, CNI, SLI	20/06/2022		
Amended report	01/08/2022		

AMENDED FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0119	DATE OF VISIT	08/06/2022
SITE No	FS0356	SITE NAME	North Moine
CASE No	20220192	INSPECTOR	██████████

*This report replaces the fish health report R25 issued on 20/06/2022 by ██████████.
The previous report should be discarded.*

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

All epidemiological units were inspected. On this occasion no samples were taken for disease analysis. The Inspector did not observe any clinical signs associated with the listed diseases as described in the Aquatic Animal Health (Scotland) Regulations 2009.

Records

The surveillance frequency category of the site was assessed as low. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every third year. The category of the site will be reassessed on a routine basis and updated as required.

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

R25

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

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

Medicine records were inspected and found to be adequately maintained.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

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

On this occasion recommendations were issued in relation to sea lice:

- The name of the person making the sea lice counts was not recorded. This must be recorded in future and will be checked at the next inspection.

The site may be subject to further inspection or enforcement action should the appropriate action regarding the above points not be taken.

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

Signed:



Fish Health Inspector

Date: 01/08/2022

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

Case No: Date of visit:

Time spent on site: Main Inspector:

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

Case Types: 1 2 3 4 5 6

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

Observations: Region: ST Water type: S CoGP MA M-40

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:

Paperwork and site inspection by [REDACTED], supervised by [REDACTED].

Water dark and fish deep in the water, when fish observed these looked to be in good condition. Feed response observed in several pens. Fish sampled for VMD appeared healthy. Cleaner fish observed near the water surface. A few pens with a few dead cleaner fish observed. A few were trapped in the fold of the nets that are used with swim throughs. Site manager says they try and organise doing these when the tide pushed the fish off the net. 14% Lumpfish stocked. Previous cycle lice above reporting threshold, following treatment falling below CoGP.

Case No: **2022-0193** Site No: **FS0629**
 Date of Visit: **08/06/2022** 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	6	No facilities inspected	
Species	SAL	LUM			
Age group	2022 Q2	2022			
No Fish	876,188	133,235			
Mean Fish Wt	210g	33g			
Next Fallow Date (Site)	07/2023		Next Input Date (Site)	03/2024	
Recent (last 4 wks) disease problems?			N Any escapes (since last visit)?		
If yes, detail: [REDACTED]					

Movement Records

1. Movement records available for inspection?
 2. Date of last inspection: **26/05/2021**
 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? **Ensiled - on site**
 If other detail: **mortalities via Kames Pier to Dundas Chemical or EnerGen Biogas**
 3. Mortality records complete and correctly entered?
SAL: Year 2022 - Week 22 (51, 0.01%) Week 21 (166, 0.02%) We 0.03%) Week 19 (173, 0.02%); LUM: Wk22, 2022 - 42 (0.03%); w 469 (0.35%); wk20, 2022 - 45 (0.07%); wk19, 2022 - 6 (0.03%)
 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:
[REDACTED]
 6. Any other peaks in mortality during period checked?
SAL: Week 30, 2021 - 4,351 (1.91%); wk31,2021 2,517(1.2%); wk33, 2021 - 1090 (1.13%) tr & gill issues; - all reported as required. LUM: wk22, 2021 - 1,840(4.45%); wk23, 2021 - 1,173 wk27, 2021 - 640 (2.84%);wk28,2021 - 700 (3.19%); wk29, 2021 - 685 (3.17%) cause Handli
 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:

Slice

If other, detail:

T.M.S

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)?

T.M.S.

If other, detail:

6. Are medicines stored appropriately?

Biosecurity Records

1. Biosecurity records available for inspection?

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

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

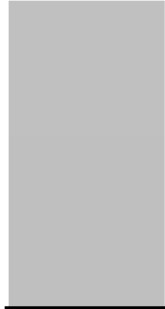
2. If yes, are results available for inspection?

3. Any significant results?

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

Records checked between:

26/05/2021 - 08/06/2022



6
N

Y
Y
Y
Y
N/A

Y
Y

Y
Y

Week 20 (239, Week 21, 2022 -
N

Y
reatment loss (2.97%); ngs
N/A
Y

Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
Y
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													
Fish nos	1-3												
Pool Group													
Species	SAL												
Average weight	210g												
Sex	N/A												
Water Type	SW												
Stock Details		Inchmore											
	Stock Origin												
Facility No	3												

06/2022

Additional Sample Information:

Total Tests assigned

Case Number:	2022-0193	Site No:	FS0629	Insp:		
Date of Visit	08/06/2022	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		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		2
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		2
	Sites sharing staff and equipment	0	1	2		0
Disinfection of equipment between sites, use of footbaths etc	Yes	0				
	No	1				0
CoGP/Regulator						
Practices in accordance with regulator or industry code of practice	Yes	0				0
	No	3				
Platform access to cages	Yes	0				
	No	2				0
Total Rank					25	MEDIUM

Case No: **2022-0193**

Site No: **FS0629**

Sea Lice Inspection (Seawater Sites Only)

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

Containment Inspection

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

Tops Nets tensioned Sea blinds

If other, detail below:

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

Case No: 2022-0193

Site No: FS0629

Date of Visit: 08/06/2022

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 or 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?

FMA with Kames for area

Case No: 2022-0193

Date of visit: 08/06/2022

Site No: FS0629

Inspector: [Redacted]

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp

Report Summary			
Case Type	Date	Insp	2 nd Insp
ECl, CNI, SLI, VMD	13/06/2022		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0119	DATE OF VISIT	08/06/2022
SITE No	FS0629	SITE NAME	Poll Na Gille
CASE No	20220193	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 been reported to the Fish Health Inspectorate as required.

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

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

R25

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

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

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

Signed:



Fish Health Inspector

Date: 13/06/2022

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

Case No: 2022-0224 Date of visit: 10/06/2022

Time spent on site: 1hr Main Inspector:

Site No: FS1239 Site Name: Grampian
Business No: FB0544 Business Name: Scotland

Case Types: 1 DIA 2 3 4 5 6

Water Temp (°C): 16.6 Thermometer No: T307 FHI 045 completed

Observations: Region: GR Water type: B CoGP MA:

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:

Additional Case Information:

Inspection following report from the DSFB. A moribund wild salmon from the river Dee was caught and left in a net in the river at around 9am of the 10/06/2022. Grid reference: NO462982.

The fish was reported to have fungus on the head and back and injury on the tail. 3 dead fish with fungus lesions and 2 dead fish without any distinguishable external marks had been observed in the river the week before, although not in the same area.

The fish was taken out at 12pm for diagnostic sampling, but by that time it was already dead. The time of death is unknown.

The salmon was in rigor when sampled and the gills and organs looked pale.

The fish was a mature female of about 4kg. As described, the fish had fungus on the head and dorsal area. There was a bite-like lesion and scratch marks in the tail region. It looked anorexic, and had no food in the stomach plus yellow pseudo-faeces in the gut.

The temperature of the water was 16.6 degrees, however this part of the river was very shallow.

Case No: 2022-0224

Site No: FS1239

Date of Visit: 10/06/2022

Inspector(s):

Registration/Authorisation Details

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

Site Details (include cleaner fish for all sections)

Total No facilities	N/A	Facilities stocked	N/A	No facilities inspected	N/A
Species	SAL				
Age group	N/A				
No Fish	1				
Mean Fish Wt	4kg				
Next Fallow Date (Site)	N/A	Next Input Date (Site)	N/A		
Recent (last 4 wks) disease problems?		N/A	Any escapes (since last visit)?		N/A
If yes, detail:					

Movement Records

- 1. Movement records available for inspection? N/A
- 2. Date of last inspection: N/A
- 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)?
- If yes, is there a system in place for maintenance of transportation records?

Mortality Records

- 1. Mortality records available for inspection? N/A
- 2. How are mortalities disposed of? Other (detail)
- If other detail: Disposed along the side of the river at killing point.
- 3. Mortality records complete and correctly entered? N/A
- 4. Recent mortality (last 4 wks): 5 other dead fish observed in the river Dee the previous week.
- 5. Evidence of recent increased/atypical mortalities? N/A
- If yes, facility nos/no mortality per facility/no stock per facility/reason:
- 6. Any other peaks in mortality during period checked? N/A
- If yes, detail:
- 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/A

Treatments and Medicines Records

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

Biosecurity Records

1. Biosecurity records available for inspection?	[redacted]
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	[redacted]
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?	[redacted]
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?	[redacted]
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?	[redacted]
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.)?	[redacted]
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	[redacted]
8. Have the biosecurity procedures been adequately implemented on site?	[redacted]
If no, detail: [redacted]	

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). [redacted]	

Records checked between:	N/A
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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	F1												
Fish nos	1												
Pool Group													
Species	SAL												
Average weight	4kg												
Sex	Female												
Water Type	FW												
Stock Details		River Dee FS1239											
	Stock Origin												
Facility No	N/A												

06/2022

Additional Sample Information:

Fish had already died in the net when taken out for sampling.

1

Total Tests assigned

12

Case no: 2022-0224

Site No: FS1239

Method of killing: Unknown

Date of visit: 10/06/2022

Inspector(s):

Sheet Relevant: Y

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

Fish Number		1								
Time sampled after death (if > 45 minutes)		N/A								
External Signs										
Behaviour	Moribund	S								
	Lethargic	S								
	Hanging vertical									
	Spiralling									
	Flashing									
	Loss of equilibrium									
Body	Dark									
	Distended abdomen									
	Anorexic	M								
	Scale Oedema									
Opercula	Shortened									
	Flared									
Haemorrhaging	Throat									
	Ventrum									
	Base of fins									
	Elsewhere									
Eyes	Exophthalmic									
	Enophthalmic (sunken)									
	Cataract									
	Haemorrhagic									
Gills	Pale	S								
	Zoned									
	Necrotic									
Lesions	Flank									
	Elsewhere	S								
Vent	Inflamed									
	Trailing faeces									
Lice Load	Estimate numbers									
Internal Signs										
Ascites	Clear									
	Bloody									
Oedema	In tissues									
Heart	Pale/anaemic	S								
	Granulomas									
	Deformed									
Liver	Petechial haem									
	Gross haem									
	Tissue breakdown									
	Enlarged									
	Colour number(s)	3								
	Granulomas									
	Lesions									
Pyloric caeca	Petechial haem									
	Tubules mauve									
	Lack of fat	S								
Spleen	Enlarged									
	Granulomas									
Gut	No food present	S								
	Yellow pseudo-faeces	M								
	External haem									
	Internal haem									
Body wall	Haemorrhaging									
Swim bladder	Haemorrhaging									
	Fluid filled									
Kidney	Swollen									
	Grey									
	Granular									
	Liquefied									
General	Parasites present									
	Anaemia									

Case no: 2022-0224

Date of visit: 10/06/2022

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

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

Additional comments:

Time of death between 9am and 12pm, fish died in the net where it was caught. The fish was anorexic and had fungus on the head and dorsal area. There was a bite-like lesion and scratch marks on the tail. Fish was in rigor when sampled, and gills & organs were already pale. The fish was a mature female. No food in the stomach with yellow pseudo-faeces in the gut. See pictures attached for more details.

Site No: FS1239

Case No: 2022-0224

Nature of non-compliance:

Action taken (FHI):

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

Case No: **2022-0224** Date of visit: **10/06/2022**
 Site No: **FS1239** Inspector: **[REDACTED]**

Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
GS	0/1	16/06/2022		16/06/2022				
Anisakis sp.	1/1	16/06/2022		16/06/2022				
MG AGD	0/1	16/06/2022		16/06/2022				
MG PARA THER	0/1	16/06/2022		16/06/2022				
MG SAL PX	1/1	16/06/2022		16/06/2022				
MG VHS	0/1	20/06/2022		20/06/2022				
MG SAV	0/1	20/06/2022		20/06/2022				
MG PMCV	0/1	20/06/2022		20/06/2022				
MG ISA	0/1	20/06/2022		20/06/2022				
MG IPN	0/1	20/06/2022		20/06/2022				
MG IHN	0/1	20/06/2022		20/06/2022				
SAPR	1/1	22/06/2022		22/06/2022				
GPAT	1/1	06/07/2022		06/07/2022				
SPAT	1/1	06/07/2022		06/07/2022				
LPAT	1/1	06/07/2022		06/07/2022				
SKIN	1/1	06/07/2022		06/07/2022				
AERO	1/1	01/08/2022		01/08/2022				
NSIG	1/1	01/08/2022		01/08/2022				

Report Summary			
Case Type	Date	Insp	2 nd Insp
DIA	03/08/2022		

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	FB0544	DATE OF VISIT	10/06/2022
SITE No	FS1239	SITE NAME	Grampian – River Dee
CASE No	20220224	INSPECTOR	[REDACTED]

Section 1: Summary

The river Dee, near Dinnet (Grid reference: NO462982) was inspected following the report of a moribund fish observed by the Dee District Salmon Fishery Board & River Dee Trust. Due to gross pathology being observed on the salmon, diagnostic samples were collected from the fish.

Histopathology examination revealed bacterial gill pathology and fungal-like dermatitis with associated *Saprolegnia* sp.. Hepatic necrosis and splenitis were also observed. Features of autolysis were observed and may have hindered the reading.

The fish also tested positive by qPCR for salmon gill poxvirus (SGPV).

A motile *Aeromonas* sp. was identified on plates taken from lesion material of the single fish. The level and purity would suggest it may be implicated as the primary source of the lesion, however, not as the primary source of morbidity.

A fungus-like organism with the microscopic characteristics of *Saprolegnia* sp. was also observed on plates taken from lesion material.

A single Anisakid worm was observed free in the musculature around the vent, consistent with *Anisakis* sp..

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

A telephone call was received on the 10/06/2022 from the Dee District Salmon Fishery Board & River Dee Trust, reporting a moribund wild salmon with fungus on the head and back and an injury on the tail. The report also noted that in the past week 5 fish had been found dead in different areas of the river Dee, 3 with fungus lesions and 2 without any distinguishable external marks. The fisheries trust requested diagnostic sampling on the moribund fish. There was an attempt to keep the fish alive in a net in the river, however, the fish had deceased upon the inspector's arrival.

The fish was identified as female with an approximate weight of 4kg. There were fungus-like growths on the head and dorsal area and there was a bite-like lesion with scratch marks in the tail

R09

region. The fish looked anorexic and had no food in the stomach, but yellow pseudo-faeces in the gut. The fish was already in rigor when sampled, and gills & organs appeared very pale.

Samples

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

Fish number	Species	Origin
1	Atlantic Salmon	River Dee

Results

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

The following bacteria were isolated:

- *Aeromonas* sp.

The level and purity would suggest it may be implicated as the primary source of the lesion, however, not as the primary source of morbidity.

Microbiology:

A fungus-like organism matching the microscopic characteristics of *Saprolegnia* sp. was observed on plates taken from lesion material.

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 value	Cp Values			Reported Result (PCR)
		Cp			
F1	20.89	23.31	23.3	23.61	POSITIVE

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

Parasitology:

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

A fin and vent were received in 100% ethanol for standard wild fish *Gyrodactylus salaris* screening and parasitological analysis.

No monogenean parasites were observed on the fin or in the tube.

A single Anisakid worm, fluorescent under UV transillumination, was observed free in the musculature around the vent, consistent with *Anisakis* sp..

No other parasites were observed.

R09

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

Histopathological examination revealed the following:

Gill: Mild to marked presence of aggregates of bacteria colonizing the lamellar surface, showing affinity to the chloride cells. There were also hypertrophy of chloride cells. Some bacteria also noted free among gill filaments. Gill tissue displayed features of autolysis.

Skin & Muscle: Hyphae mat on the dermal outer layer and presence of Gram-negative rod-shaped bacteria, partial absence of epidermal layer, haemorrhage and low grade inflammatory reaction and it reached the musculature. Mild oedema of dermal layer.

Heart: Within normal range

Gut and pyloric caeca: Three nematodes within pyloric caeca. Cell sloughing potentially associated with post-mortem artefacts.

Pancreas: Within normal range.

Liver: Mild multifocal hepatic necrosis.

Kidney: Small foci of inflammatory cell infiltration. Some features of autolysis.

Spleen: Mild multifocal necrosis.

Signed:



Fish Health Inspector

Date: 03/08/2022

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







