FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020			
Case No: 2021-0157			Date of visit: 11/10/2021			
Time spent on site:	1	Main Insp	pector:			
Site No: FS1289 Business No: FB0357	Site Name: Business Name:	Temperate Facilities University of Stirling				
Case Types: 1 ECI 2	2 CNI 3	4 5	6			
Water Temp (°C): 12.1	Thermometer No:	T205	FHI 045 completed			
Observations:	Region: CE	Water type: B	CoGP MA:			
Dead/weak/abnormally behaving fish present? Clinical signs of disease observed? Gross pathology observed? Diagnostic samples taken? N If yes, see additional information/clinical score sheet. N If yes, see additional information/clinical score sheet. N If yes, see additional information/clinical score sheet.						
UNI/REG only - if unable to carry	out intended visit detai	l reason below:				

Additional Case Information:

Currently recirc freshwater, can run the system on both fresh water and sea water. Two separate system of 12 tanks each, 24 tanks in total. System 1 - 15.2C, System 2 - 12.1C.

Some records received 8/10/21. Further paperwork and discussion 8/12/2021 & 9/12/21.

Unsure about use of facility going forward. Plans are to be decided in due course. Since last inspection no imports but as work can be unpredictable due to research requirements unsure if imports will be required, so scored surveillance frequency as if imports might occur.

FHI 059, Version 13	3		Issued by: FHI		Da	ate of issue: 1	12/05/2020
Case No:	2021-0157	Site No:	FS128	9			
Date of Visit:		11/10/2021		Inspector(s)	:		
Registration/Author	orisation Deta	nils			_		
1. Business/site det	tails summary	checked by site repres	entative?		Υ		
2. Changes made to	o details?				N		
Site Details (includ	de cleaner fis	h for all sections)					
Total No facilities			stocked	18	No facilities in	nspected 24	4
Species	SAL						
Age group	Parr						
No Fish	1,500						
Mean Fish Wt	70g						
Next Fallow Date (S	Site)	End of October 2021	Next Input D	ate (Site)	Nov/Dec 2021	1	
Recent (last 4 wks)	disease proble	ems?		N Any escapes	s (since last visi	t)?	N
If yes, detail:							
Movement Record	ls						
1. Movement record		r inspection?					Υ
2. Date of last inspe		•			04	1/04/2019	
3. Are records com		ectly entered?			_		Y
		e for dead fish and wa	ste?				Y
5. Are records com	plete and corre	ectly entered?					Y
		uctions (outwith GB) a	vailable?				N/A
Transport Records	s						
•		t by (or on behalf) of th	e business (not u	sing a STB)?			Y
•		or maintenance of tran					Y
Mortality Records							
1. Mortality records		nspection?					Y
2. How are mortaliti		•		Other (detail)		
If other detail:		e frozen and then rem	oved for incinerat	,	,		
3. Mortality records				(-			Υ
4. Recent mortality	•		ities for the whole	facility in the l	ast 4 weeks.		
5. Evidence of rece	` ,						N
		facility/no stock per fac	cility/reason:				
G. Any other needs	in mortality -	ring pariod shasks 10					V
If yes, detail:		ring period checked?					Y
•		events tab for info	ad to yet at FUID				V
	• •	mortalities been reporte			and have been	tionata di anal	I amount = -!
If yes, detail action:		In house vet is contact orted to FHI? If no, er				ligated and s	sampled N
o. Have Hillianiv e	vento Deen le	oortea to FITI (II 110. et	itel details off fill	riality everits S	HEEL.		- 11

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Treatments and Medicines Records		
Recent treatments (see comment)?		N
If yes, detail:		
If other, detail:		
2. Medicines records available for inspec	tion?	Υ
3. Are records complete and correctly ent	tered?	N
4. Are fish in a withdrawal period?		N
5. If yes, what treatment(s)?		
If other, detail:		
6. Are medicines stored appropriately?		Y
Biosecurity Records		
1. Biosecurity records available for inspec	ction?	Y
2. Has the manner and frequency of mort	tality removal, recording and safe disposal be	en considered?
3. Has the manner and period in which th	e APB will notify Scottish Ministers or veterina	ary professional of any
increased (unexplained) mortality at the	site been included?	Y

Records checked between: 04/04/2019 - 8/10/21

FHI 059, Version 13		Issued by: FHI			Date of	of issue	: 12/05/2020
Case Number:	2021-0157		Site No:	FS1289		Insp:	
Date of Visit	11/10/2021		No of m	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of m	novements on from equivalent MS	0	5	10	14	
with GB) of susceptible species		novements on from equivalent zone or	0	0	40	20	0
Species		ncluding third country	0			26	9
	Number of sup					14	5
Movements off	Frequency of m		0			10	0
	Number of des		0			10	0
Exposure via water	Ir:-	Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species	disinfection or l	•	0				0
susceptible to same diseases)	farms upstream	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		
		or in a coastal zone with category III or within 1 tidal excursion	1	3	6		
		or in a coastal zone with category V	1	4	8		
Management practices	apotrodii	Take of the second of the seco	None '	Secure	Unsecure		
Water contacts with	Any processing	plant discharging into adjacent waters					
processors			0	1	2		0
On farm processing within the rules of the directive	No on farm pro		0				
	Processing own	n fish (re-cycling risk)	1				1
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent state	from zone or compartment of us	4				
	Processing fish	from Category III farm	8				
	Processing fish	from Category V farm	10				
Disposal of fish and fish by-	Site's own was	te only processed.	0	1			
products	Common proce	esses with other farms	3				3
	Collection poin	for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	npasteurised feed	0	1			0
	Feeding unpas	teurised feed	5				
Biosecurity	•	Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		2
	Sites sharing s	taff and equipment	0	1	2		2
Disinfection of equipment	Yes		0				0
between sites, use of footbaths etc	No		1				
CoGP/Regulator				_			
Practices in accordance	Yes		0				
with regulator or industry code of practice	No		3				3
Platform access to cages	Yes		0]			0
	No		2				
					Total		25
					Rank		MEDIUM

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2
Case No: 2021-0157	Site No:	FS1289
Sea Lice Inspection (Seawater Sites Onl	v)	
Has the site experienced sea lice proble		
	r 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 (i as well as access to suitable biological and/or me	ncluding deltamethrin,
4. Is there a signed documented farm man Management Area (or equivalent)?	agement agreement or statement relevant to the	site and CoGP Farm
5. Are sea lice count records available for i6. Do records adequately reflect the require	nspection? (Legal SSI, CoGP Annex 6) ed standard specified in the SSI and the CoGP?	(Legal SSI, CoGP Annex 6)
7. Are sea lice (<i>L. salmonis</i>) record levels records are inspected? (CoGP Annex 6)	below the suggested criteria for treatment in the	CoGP during the period that
8. Have average adult female sea lice (<i>L. s</i> 2 or above (from w/b 10/6/19) during the pe	calmonis) numbers per fish been at a level of 3 operiod that records are inspected?	r above (prior to w/b 10/6/19) or
•	h Health Inspectorate? If no, FHI see comment. ch is considered to cause significant welfare prol	olems? (CoGP 4.3.81, 5.3.50)
	inistered or other actions taken when <i>L. salmonia</i> . <i>elongatus</i> is considered to have welfare implications.	
11. Has any other action been taken (wher	e applicable)?	
•	ons taken had a significant impact upon the lice	
	ed out in cooperation between participating farm	
14. Is there a harvesting strategy for the sit sea lice?	e, where fewer populations or part populations a	re held without treatment for
15. Is there a site specific written lice mana scenarios during the escalation of a sea lice	agement procedure with waypoints describing set e infestation?	t actions to deal with recognised
16. Do the sea lice levels observed on stoo	cks reflect sea lice count data? If no please detail	reasons.
Containment Inspection		
	nage due to predators in the current or previous p	
Are measures in place to mitigate agains	st the predation experienced on site? (Detail belo	ow) Y
If other, detail below:		
Indoors		
3. Have escape incidents or events been of the second of t	experienced on or in the vicinity of the site since t	the last FHI inspection?
4. Have these been reported to Scottish Mi		
· · · · · · · · · · · · · · · · · · ·	forthwith (where they exist)? (CoGP – 4.4.37, 5	(4.17)
·	and local fisheries trusts forthwith (where they ex	
7. Were methods (if any) used to recover e	escapees? If yes give detail	
8. If gill nets were deployed was this action Ministers? (Legal, CoGP – 4.4.38, 5.4.18)	agreed with local wild fish interests and was per	mission given by Scottish
9. What action was taken to prevent and m	inimise the risk of further escapes? (Not covered	l in code but could
be considered under satisfactory measured as satisfactory with	sures of the Act) n regards to containment? If no, please detail rea	ason(s)
10. 13 the site inspected as satisfactory with	Trogards to containinent: 11 110, piedse detail fed	1

Date of issue: 12/05/2020

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0157	Site No: FS1289	
Date of Visit: 11/10/2021	Inspector:	
Point of Compliance	ithin a form management area?	
1. Is the farm under inspection located war If N, no further questions require comple	•	N
Points of Compliance for Both Farm M 2. Has a current farm management agre 3. Is the current FMAg/S available for ins 4. Does the FMAg/S identify the relevant 5. Does the FMAg/S identify the fish farm	Management Agreements and Statement ement or statement (FMAg/S) been prepare spection? It farm management area? In site(s) to which it applies? It commencement of the agreement or states	red?
farm? 9. Does the FMAg/S identify the vaccinat 10. Does the FMAg/S identify the specie 11. Does the FMAg/S identify the maxim individual farm? 12. Does the FMAg/S identify the arrang	m health standards for the stocks to be intraction requirements for stocks held in the areas of fish which may be stocked into the area num stocking density of any pen on any farmements for the storage and disposal of any	ea or farm? ea or farm? m in the area or the
Arrangements for The Management of 13. Does the FMAg/S identify arrangements		nbers and treatments?
of statement? 15. Does the FMAg/S identify any require lice on farms in the area or individual farms.		le treatments for sea
16. Does the FMAg/S identify the circum used on farms in the area or individual fa	istances under which biological controls an arms?	
	ements for synchronous treatments on far	ms within the area?
area or farm?	estances when live fish may be introduced or	or removed from the
or individual farms?		

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Harvesting 20. Does the FMAg/S identify acceptable	harvest practices on farms in the area or indiv	vidual farms?
Fallowing 21. Does the FMAg/S identify the dates b date when a farm or area may be restock	y which the area or individual farm will be fallo	ow and the earliest
•	e or more year classes may be stocked onto s	sites covered by the
•	oodstock or potential broodstock are to be kep	ot on any site
Point of Compliance for Farm Manager 24. Does the farm management agreeme parties to the agreement?	ment Agreements Only ent include arrangements for persons to becon	ne, or cease to be,
Management and operation 25. Is the fish farm being managed and o 26. What is the version no/date of issue of	operated in accordance with the agreement or soft the FMAg/S?	statement?

Case No:	2021-0157	Site No:	FS1289	Date of visit:	11/10/2021	J				
Start date:	End date: (if applicable)	Size of fish:	Average weight of affected population:	Species:	Yearclass (SW SAL only):	Timescale	Mortality rate recorded(%):	Explained/ unexplained:	If explained, select re	eason(s):
18/01/21	24/01/2021	Eggs to 1st feed	0.2g	SAL		Weekly	31.80	Explained	Power cut, Water qu	ality
22/02/21	28/02/2021	1st feed to 5g	0.7g	SAL		Weekly	7.37	Explained	Water quality	
01/03/21	07/03/2021	1st feed to 5g	0.7g	SAL		Weekly	7.04	Explained	Water quality	
14/12/20	20/12/2020	Eggs to 1st feed	Ova	SAL		Weekly	7.17	Explained	Water quality	AGD Algal blo
21/12/20	27/12/2020	Eggs to 1st feed	ova	SAL		Weekly	6.24	Explained	Water quality	Bonamia CMS Complex
										□ ERM
										Failed sı
										Furuncul
										Gaffkaer
										Gastroe
										GS GS
										·

If unexplained, select	If unexplained, select observations:		Additional information (e.g. action taken by company):	Action taken by FHI (include case no where applicable):	Yearclass Year
	Click to select observations (ensure in correct cell)		2236 mortality on 21/01/21; 958 animals culled (remains of the trough affected). Issues with power cut while water exchange was on-going, at the time this did not seem to affect the fish however next day the large mortality was observed and the remaining fish were culled.	Historic report, picked up during inspection.	
			"pins" not coming on feed, after the yolk sac was absorbed. After earlier water quality issues.	Historic report, picked up during inspection.	
			2nd week on-going from previous week. A lot of uneaten feed in the tanks as the fish weren't coming on to the feed after previous issues with water quality. 6/3/21 Aquacen treatment for gill fungus.	Historic report, picked up during inspection.	
om		589	Dead Eggs, low pH shortly after input of eggs in Nov 2020 (due to dosing error with Bicarb - staff error). This is thought to have negatively affected this batch of eggs.	Historic report, picked up during inspection.	
gill issues		476	Dead Eggs, issue with pH due to staff error in November 2020.	Historic report, picked up during inspection.	
nolts					
osis nia					
iteritis					

Case No:	2021-0157	Date of visit: 11/10/2021								
Site No:	FS1289]								
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	09/12/2021									





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0357 Date of Visit 11/10/2021

SITE NO FS1289 SITE NAME Temperate Facilities

Case No 20210157 Inspector

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

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

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

Medicine records were inspected and found to be inadequately maintained.

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

- The withdrawal period was missing from the medicine records, this was amended and updated prior to the report. No further action required.
- Use of Tricaine Methane Sulphonate as an anaesthetic was not recorded in the medicine record, so not all required details were available. This was discussed and future treatments must be included in the medicine record. Medicine records must include the name of the product, the date of administration, the quantity administered, the withdrawal period and the facility number of the treated animals.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory.

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



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/

FHI 059, Version 13	Is	sued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0181			Date of visit: 12/10/2021
Time spent on site:	3hr	Main Insp	pector:
Site No: FS0134	Site Name:	Glenkens	
Business No: FB0134	Business Name:	Kames Fish Farming Ltd	
Case Types: 1 ECI	2 CNI 3 VMD	4 5	6
Water Temp (°C): 12.1	Thermometer No:	T205	FHI 045 completed
Observations:	Region: DG	Water type: F	CoGP MA
Dead/weak/abnormally behaving	-		information/clinical score sheet.
Clinical signs of disease observ	ed?		information/clinical score sheet.
Gross pathology observed? Diagnostic samples taken?		N If yes, see additional	information/clinical score sheet.
Diagnostic Samples taken:		IN	
UNI/REG only - if unable to care	ry out intended visit detail r	eason below:	

Additional Case Information:

Paperwork completed on 6/10/21 remotely by accompanied by Site visit on 12/10/21 by accompanied by

Overall the fish appeared to be in good condition and displayed feeding response when approached in the wooden pens. One mortality observed in one pen. Some light damage observed to dorsal and caudal fins on a small proportion of fish in most pens. One fish removed for VMD sampling, which appeared healthy.

FHI 059, Versio	on 13		Issued	by: FHI		Date of issue: 12/05/202
Case No:	2021-0181		Site No:	FS0134]	
Date of Visit:		12/10/2021]		Inspector(s):	
Registration/A						
		ary checked by	site representati	ve?		Y
2. Changes ma	ade to details?					Υ
Site Details (in	nclude cleane	r fish for all sec	tions)			_
Total No faciliti		19	Facilities stock	ed	14	No facilities inspected
Species	RTR	RTR				
Age group	2019	2020				
No Fish	32,000	5,600				
Mean Fish Wt	2.86kg	1.37kg				
Next Fallow Da		none		Next Input Date	e (Site)	July 2022
Recent (last 4	• •			•		(since last visit)?
		cause some mor	tality but not sign			,
5. Are records 6. Are health of Transport Red 1. Are any mov	complete and of ertificates for incords vements carried	nilable for dead fis correctly entered atroductions (out dout by (or on be ace for maintenar	? with GB) availab ehalf) of the busi	ness (not using	a STB)?	
Mortality Reco		for inspection?				
2. How are mo					Incinerated - c	on site
If other detail:	<u> </u>				•	
•	•	and correctly ent	tered?			
Recent mort	• •	•		rts, 0.6%; wk39	morts, 0.9%; V	Vk40 200 morts, 0.49; wk41 60 m
		ed/atypical morta				
		per facility/no sto				
		ibuted to increas		s (peak at 18C-2	(OC)	
•		y during period cl nortality attributed		mporatures (24)	2)	
•		ed) mortalities be			<u> </u>	
If yes, detail ac			The portion to t			
•		n reported to FH	l? If no, enter de	tails on mortality	y events sheet.	

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/202
Treatments and Medicines Records		
1. Recent treatments (see comment)?		
If yes, detail:		
If other, detail:		
Medicines records available for insp	pection?	
3. Are records complete and correctly		
4. Are fish in a withdrawal period?		
5. If yes, what treatment(s)?		
If other, detail:		
6. Are medicines stored appropriately	?	
-		
Biosecurity Records		
1. Biosecurity records available for ins	•	idd2
	nortality removal, recording and safe disposal beer	
•	h the APB will notify Scottish Ministers or veterinar	y professional of any <i>increased</i>
(unexplained) mortality at the site bee		
	the event that the presence or suspicion of the pre at will be notified to Scottish Ministers?	sence of a listed disease is detected
	e animals being stocked on the farm site been cov	pered (equal or higher health status
certification if required)?	s animals being stocked on the farm site been cov	crea (equal of higher ficallit status,
,·		
6. Have the husbandry and biosecurity	y measures implemented between each epidemiol	ogical unit to minimise transmission
•	of staff, visitors, equipment, live or dead fish etc.)?	•
7. Is documentation available regarding	ng the measures in place to maintain the physical of	containment of aquaculture animals
held on site?		
8. Have the biosecurity procedures be	en adequately implemented on site?	
If no, detail:		

Results of Surveillance

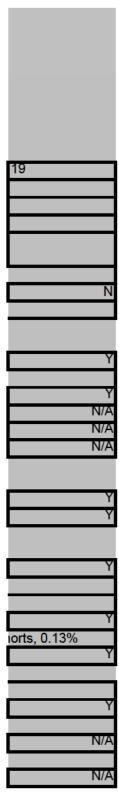
- 1. Has any animal health surveillance been carried out by, or on behalf of, the business?
- 2. If yes, are results available for inspection?
- 3. Any significant results?

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

Costia and Tricodina

August 2020 general visit some Costia and Tricodina observed, treatment planned.

Records checked between: 18/04/2018 - 6/10/21





								ued by:				
Case no:	2021-01	81	Site No:		FS0134			Date of Samplin		12/	10/2021	12/
Priority samples:	VI	=	ВА		PA		MG	Cumpiii	HI		l	
Time sampling starts/ends: Environmental conditions	11:30 s: 1	D:00	11:4	0:00	3	Inspecto	or: 4		 5	VMD No	o. 	1
Summary samples	HIST	=	ВА		MG		VI		РА		Total Sa	amples
Add Fish/Pools - click												
Pool/Fish No												
Fish nos	1											
Pool Group												
Species	RTR											
Average weight	700g											
Sex	N/A											
Water Type	FW											
Stock Origin Facility No	Torhouse Mill											

10/2021	10/2021 Additional Sample Information:													
0	1	Total To	ests ass	igned	0	1								

FHI 059, Version 13		Issued by: FHI			Date of	of issue	: 12/05/2020
Case Number:	2021-0181		Site No:	FS0134		Insp:	
Date of Visit	12/10/2021		No of m	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of m	novements on from equivalent MS	0	5	10	14	0
with GB) of susceptible species		novements on from equivalent zone or	0	9	18	26	
•	Number of supp	cluding third country	0		10	14	0
Movements off	Frequency of m	novements off	1 0] 3	6	10	3
Movements on	Number of dest		0		6	10	3
Exposure via water		Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species	disinfection or b	•	0				
susceptible to same diseases)	farms upstream	or in a coastal zone with category I or within 1 tidal excursion	1	2	4		1
	farms upstream	or in a coastal zone with category III or within 1 tidal excursion	1	3	6		
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	•	0				
	Processing owr	n fish (re-cycling risk)	1				1
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent statu	from zone or compartment of us	4				
	Processing fish	from Category III farm	8				
	Processing fish	from Category ∨ farm	10				
Disposal of fish and fish by-	Site's own wast	te only processed.	0	1			0
products	Common proce	sses with other farms	3				
	Collection point	for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	npasteurised feed	0	1			0
	Feeding unpast	teurised feed	5				
Biosecurity		Number of sites	. 1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		0
	Sites sharing st	aff and equipment	0	1	2		
Disinfection of equipment between sites, use of	Yes		0				0
footbaths etc	No		1				0
CoGP/Regulator							
Practices in accordance with regulator or industry	Yes		0				
code of practice	No		3				3
Platform access to cages	Yes		0]			0
	No		2]			
					Total Rank		11 LOW

Case No:

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 emame 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 equiv
- 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 inspecte
- 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

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
- 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
- 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?
- Are measures in place to mitigate against the predation experienced on site? (Detail below)

If other, detail below:

Top nets, duble nets for the two meters of nets tensioned nets

- 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?
- 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, CoG
- 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)

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
2021-0181	Site No: FS0134	
ectin benzoate) as well as access to suitable	e biological and/or mechanical control measures, and car	
valent)?		
d? (CoGP Annex 6)		
w/b 10/6/19) during the period that records	are inspected?	
r treatment or where C. elongatus is conside	ered to have welfare implications? (CoGP 4.3.82, 5.3.51)	
the englation of a sea line infectation?		
the escalation of a sea lice infestation?		
		N
		Y
		N
iP – 4.4.38, 5.4.18)		
		Y

o	0004 0404				40/40/0004			
Case No:	2021-0181	ı		Date of visit:	12/10/2021	J		
Site No:	FS0134	1		Inspector:				
		•						
Results Summary	Freq.				te of Notifica			•
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
	-	-						
	Ì	Ì						
	†							
		Ī						
Damant Cumana								
Report Summary	Date	lnen	and I					
Case Type	20/10/2021	Insp	2 nd Insp					
ECI, CNI, VMD	20/10/2021							
	†							
	1							





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0134 DATE OF VISIT 12/10/2021
SITE NO FS0134 SITE NAME Glenkens

Case No 20210181 INSPECTOR

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

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

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

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

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

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.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory.

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

Signed: Date: 20/10/2021
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/

FHI 059, Version 13		Issued by: FHI		Date of iss	sue: 12/05/2020
Case No: 2021-0279			Da	ate of visit: 06	/10/2021
Time spent on site:	hrs	Ma	in Inspector:		
Site No: FS0860 Business No: FB0125	Site Name: Business Name:	Shapinsay Scottish Sea Farms	Ltd		
Case Types: 1 ECI	2 CNI 3 SLI	4 VMD 5	6		
Water Temp (°C): 12.4	Thermometer No:	T146	FH	HI 045 completed	d 🔲
Observations:	Region: OR	Water type:	s	CoGP MA	0-2
Dead/weak/abnormally behaving Clinical signs of disease observe Gross pathology observed? Diagnostic samples taken?		Y If yes, see addi	tional informat	ion/clinical score ion/clinical score ion/clinical score	e sheet.
UNI/REG only - if unable to carry	out intended visit detai	l reason below:			

FHI 059, Version 1	3	_	Issu	ied by: FHI	_		Date of issu	ie: 12/05/2020
Case No:	2021-0279		Site No:	FS0860				
Date of Visit:		06/10/2021	1		Inspector(s):			ı
Registration/Auth								_
1. Business/site de	•	checked by s	ite represent	ative?			Υ	
2. Changes made t	to details?						Y	_
Site Details (inclu	de cleaner fis	h for all sect	ions)					
Total No facilities		12	Facilities sto	cked	12	No facilitie	s inspected	12
Species	SAL							
	2021 Q2 &							
Age group	S0							
No Fish	820,314							
Mean Fish Wt	425g							
Next Fallow Date (•	Oct 2022		Next Input Da		Spring 202		
Recent (last 4 wks)	disease probl	ems?		N	Any escapes	(since last v	/isit)?	N
If yes, detail:								
Marramant Basar	da.							
Movement Record		r inonaction?						
 Movement recor Date of last insp 		r inspection?					03/12/2019	'
Are records com		actly entered?	,				03/12/2019	
4. Are movement r	•	•		,				·
5. Are records com								Ÿ
6. Are health certifi				able?				N/A
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			02, 4,4					
Transport Record	s							
1. Are any moveme	ents carried ou	t by (or on be	half) of the bu	usiness (not us	sing a STB)?			Y
If yes, is there a sy	stem in place f	or maintenan	ce of transpo	rtation records	?			Y
Mortality Records								
Mortality records					011 (1.1.3)			Y
How are mortalit If other detail:					Other (detail)			
	SSF Ensiler							
Mortality records Percent mentality		correctly ent		/ \ f ====: t == f =====		La		'
4. Recent mortality		t missl morts		%) for site for p	revious 4 wee	KS		N
Evidence of rece If yes, facility nos/n		• •		//reason:				IN
ii yes, iacility 1105/11	o mortality per	Tacility/110 St	on per racility	ricasori.				
6. Any other peaks	in mortality du	ring period ch	necked?					N
If yes, detail:		J						
7. Have increased	(unexplained)	mortalities be	en reported to	o vet or FHI?				N/A
If yes, detail action	•							
8. Have 'mortality e	vents' been re	ported to FHI	? If no, enter	details on mor	tality events s	heet.		N/A

Treatments and Medicines Records	
1. Recent treatments (see comment)?	Y
H2O2, T.M.S., If yes, detail:	
If other, detail:	
2. Medicines records available for inspection?	Y
3. Are records complete and correctly entered?	Ÿ
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	
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	Y
health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	Y
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of	Y
aquaculture animals held on site?	
Have the biosecurity procedures been adequately implemented on site?	Y
If no, detail:	
Results of Surveillance	
Has any animal health surveillance been carried out by, or on behalf of, the business?	Y
2. If yes, are results available for inspection?	Y
3. Any significant results?	N
If yes, detail (if not detailed under recent disease problems).	
Records checked between: Dec 2019 to Sept 2021	

Additional Case Information:

Remote inspection conducted 01/10/21 by , observed by as part of competency audit

Site Inspection conducted 06/10/21 by , VMD sampling and full mock diagnostic conducted by as part of competency audit

Site currently stocked with 4 pens of salmon due to go to Noust Geo and the remaining 8 pens are stock that will stay on Shapinsay. Noust Geo fish are due to move in Mid November 2021, only stocked on Shapinsay due to delays with Wyre (Noust Geo's nursery site) fallowing and undergoing fallow period.

Shapinsay stocked pens were deeper in the water, but showed a good feeding response. All appeared healthy, 3 dead observed across the 8 pens, these were removed by site staff at time of inspection. The Noust Geo fish were shoaling well, but ~50 failed smolts observed in pens 11 and 12, all still active One fish observed with lesion behind dorsal fin, but still very active.

Shapinsay is a nursery site for Puldrite, fish are input in spring and transferred when ~1kg (Aug/Sept time).

Weather very calm during inspection, changing between sunny and overcast. This made visibility in some pens better than others, fish could be observed shoaling deeper in the water. 3 fish removed for VMD all appeared healthy and in very good condition. Site currently undergoing a SLICE treatment, there was a lot of jumping behaviour in the Noust Geo stock, caligus are slightly elevated, but not at level to cause issues on site. It was reported that Leps are becoming more common on sites within Kirkwall bay. Water temperature was reported to be high for time of year and currently 12.4oC.

AGD - Reported that CT values from swab samples appear to be stronger (lower CT) since Pharmaq took over testing from FVG, this is being investigated to look at differences in CT values. H202 treatment conducted at Shapinsay for the Noust Geo fish 30/09 & 01/10

Currently participating in Gill health study with Aberdeen University/MSS. Includes E.DNA work (for AGD in water), and sampling has been undertaken (incl histology) In June, September and will be sampled Nov/Dec.

Mortalities are ensiled in Orkney, however, if there was an issue with the ensiler or large number of mortalities, these would be disposed of at Pelagia on Bressay - Shetland.

SSF Orkney sites will be moving to using uplift systems and moving away from dead basket for mortality removal.

There is weekly communications between SSF and CAS regarding sites in Orkney, including exchange of sea lice numbers.

	11 009, Version 13							133	ueu by. i	1111			
	Case no:	2021-02	279	Site No:		FS0860			Date of Samplin		06/	10/2021	
	Priority samples:	VI		ВА		PA		MG	-	y. HI			
	Time sampling starts/ends:	11:0	0:00	13:0	0:00		Inspecto	or:			VMD No	o.	15
	Environmental conditions:	1	Dry	2	Sunny	3	Cloudy	4		5			
	Summary samples	HIST		ВА		MG		VI		PA		Total Sa	mples
A	dd Fish/Pools - click												
	Pool/Fish No												
	Fish nos	1	2	3									
	Pool Group												
	Species	SAL	SAL	SAL									
	Average weight	1.0000	1.0000	1.0000									
	Sex												
	Water Type	SW	SW	SW									
Stock Details		Knock	Barcaldine Smolt Unit	Barcaldine Smolt Unit									
S	Facility No	3	5	6									

	Additional Sample Information:														
0	0 Total Tests assigned 0														

FHI 059, Version 13		Issued by: FHI			Date o	f issue:	12/05/2020	
Case Number:	2021-0279		Site No:	FS0860		Insp:		
Date of Visit	06/10/2021			ovements/s	upp./dest.		Score	
Live fish movements			0	1-5	6-10	>10		
Movements on (from out	Frequency of m	novements on from equivalent MS	0	5	10	14	0	
with GB) of susceptible species		novements on from equivalent zone or	0	9	18	26	0	
	Number of sup	ncluding third country pliers	0	_	10	14	0	
Movements off	Frequency of m		1 0	3	6	10	10	
IVIOVEITIETIIS OII	Number of desi		0		6	10	3	
Exposure via water		Site contacts	0	1-5	6-10			
Water contacts with other farms (holding species	disinfection or l	,	0				0	
susceptible to same diseases)	farms upstream	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		2	
	farms upstream	or in a coastal zone with category III n or within 1 tidal excursion	1	3	6		0	
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		0	
Management practices			None	Secure	Unsecure			
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		1	
On farm processing within the rules of the directive	No on farm pro	cessing	0				0	
	Processing own	n fish (re-cycling risk)	1				0	
	Processing fish from MS of equivalent status			1			0	
	Processing fish equivalent statu	4				0		
		from Category III farm	8				0	
	Processing fish	from Category ∨ farm	10				0	
Disposal of fish and fish by-	Site's own wast	te only processed.	0	1			0	
products	Common proce	esses with other farms	3	1			3	
	Collection point	t for waste from other farms	5				0	
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0	ĺ			0	
	Feeding unpas	teurised feed	5	1			0	
Biosecurity		Number of sites	1	2 or 3	≥ 4			
Contacts with other sites	Sites operating	from single shorebase	0	1	2		1	
	Sites sharing st	taff and equipment	0	1	2		1	
Disinfection of equipment	Yes		0	1			0	
between sites, use of footbaths etc	No		1				0	
CoGP/Regulator								
Practices in accordance with regulator or industry	Yes		0				0	
code of practice	No		3				0	
Platform access to cages	Yes		0	1			0	
	No		2				0	
					Total Rank		21 MEDIUM	

Case No:	2021-0279		Site No:	FS0860	
Sea Lice Inspection (Seawater Sites Only)			
1. Has the site experier	nced sea lice problem	ns in the previous 4 years?			N
2. Is the CoGP Farm M	lanagement Area (or	equivalent) fallowed synchronously	on a single y	ear class basis?	N
		cenced in-feed and bath sea lice me	•		Υ
azamethiphos and ema and can these be deplo	-	s well as access to suitable biologica period of time?	al and/or mec	hanical control measures,	
4. Is there a signed doo Management Area (or e		gement agreement or statement rele	evant to the s	ite and CoGP Farm	Υ
5. Are sea lice count re	cords available for in	spection? (Legal SSI, CoGP Annex	6)		Υ
6. Do records adequate	ely reflect the required	d standard specified in the SSI and t	he CoGP? (L	.egal SSI, CoGP Annex 6)	Y
7. Are sea lice (L. salm records are inspected?	•	elow the suggested criteria for treatn	nent in the Co	oGP during the period that	Υ
		Imonis) numbers per fish been at a iod that records are inspected?	level of 3 or a	above (prior to w/b 10/6/19) o	r N
If yes, have these been	reported to the Fish	Health Inspectorate? If no, FHI see	comment.		N/A
•	•	h is considered to cause significant \		ems? (CoGP 4.3.81, 5.3.50)	N
		3		, , ,	
•		nistered or other actions taken when elongatus is considered to have we			N/A
11. Has any other action	n been taken (where	applicable)?			N/A
12. Have therapeutic tr	eatments or the action	ns taken had a significant impact up	on the lice le	vels recorded?	N/A
13. Are treatments, who	ere conducted, carrie	d out in cooperation between particip	pating farms?	?	N/A
14. Is there a harvestin sea lice?	g strategy for the site	, where fewer populations or part po	pulations are	e held without treatment for	Υ
•		pement procedure with waypoints defort a sea lice infestation?	scribing set a	actions to deal with	Y
16. Do the sea lice leve	els observed on stock	s reflect sea lice count data? If no pl	lease detail r	easons.	Υ
Containment Inspecti	on				
1. Has the site experier	nced equipment dama	age due to predators in the current o	r previous pr	oduction cycles?	N
2. Are measures in place	ce to mitigate against	the predation experienced on site?	(Detail below	/)	Υ
Top nets,					
Tensioned nets,					
Sapphire Nets					
If other, detail below:					
2. Hava aasama inaida	-tt- b		-141 41-	a last El II in an astion O	IN
		perienced on or in the vicinity of the	site since th	e last Fri inspection?	IN
If Yes proceed with que					
4. Have these been rep			4 4 27 5 4	1.47\	
		forthwith (where they exist)? (CoGP			
o. nave these been rep	onted to the SSPO at	nd local fisheries trusts forthwith (wh	ere triey exis	st)? (COGP = 4.4.37, 3.4.17)	
7. Were methods (if an	y) used to recover es	capees? If yes give detail			
8. If gill nets were deplo Ministers? (Legal, CoG	•	agreed with local wild fish interests a	nd was perm	nission given by Scottish	
9. What action was tak	en to prevent and mir	nimise the risk of further escapes? (N	Not covered i	n code but could	
be considered under	r satisfactory measu	ures of the Act)			
10. Is the site inspected	d as satisfactory with	regards to containment? If no, pleas	e detail reas	on(s)	Υ

Issued by: FHI

FHI 059, Version 13

Date of issue: 12/05/2020

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0279	Site No: FS0860	
Date of Visit: 06/10/2022	1 Inspector:	
Point of Compliance		
1. Is the farm under inspection located	within a farm management area?	Y
If N, no further questions require comp	letion.	
2. Has a current farm management agr3. Is the current FMAg/S available for in4. Does the FMAg/S identify the relevant5. Does the FMAg/S identify the fish far	nt farm management area? rm site(s) to which it applies? of commencement of the agreement or statem	Y Y Y Y
Arrangements for Fish Health Managements for Fish Health Managements 8. Does the FMAg/S identify the minimum farm?	gement um health standards for the stocks to be intro	duced to the area or Y
10. Does the FMAg/S identify the speci	nation requirements for stocks held in the area ies of fish which may be stocked into the area mum stocking density of any pen on any farm	or farm?
	ngements for the storage and disposal of any o	dead fish from any fish
Arrangements for The Management 13. Does the FMAg/S identify arrangen	of Sea Lice ments for the sharing of data on sea lice numb	pers and treatments?
14. Does the FMAg/S identify the available of statement?	ability and the use of medicines on farms cove	ered by the agreement Y
15. Does the FMAg/S identify any require on farms in the area or individual fa	irements for the sensitivity testing of available arms?	treatments for sea
16. Does the FMAg/S identify the circulused on farms in the area or individual	mstances under which biological controls and farms?	cleaner fish are to be
	ngements for synchronous treatments on farm	s within the area?
Live Fish Movements 18. Does the FMAg/S identify the circularea or farm?	mstances when live fish may be introduced or	removed from the
19. Does the FMAg/S identify the arran or individual farms?	ngements for the movement of live fish on and	off sites in the area

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Harvesting 20. Does the FMAg/S identify acceptable	harvest practices on farms in the area or indiv	vidual farms?
date when a farm or area may be restocked 22. Does the FMAg/S identify whether one agreement or statement?	y which the area or individual farm will be fallo ed? e or more year classes may be stocked onto s odstock or potential broodstock are to be kep	sites covered by the
covered by the agreement or statement?	oustook of potential productook are to be kep	
Point of Compliance for Farm Manager 24. Does the farm management agreeme parties to the agreement?	nent Agreements Only nt include arrangements for persons to becon	me, or cease to be,
Management and operation 25. Is the fish farm being managed and op 26. What is the version no/date of issue or	perated in accordance with the agreement or fifthe FMAg/S? Jan-21	statement?

Case No:	2021-0279			Data of visits	06/40/2024					
Case No.	2021-0279	ı		Date of visit:	06/10/2021					
Site No:	FS0860]		Inspector:		I				
Results Summary	Freq.			Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp		
	 									
	1									
	1									
	+									
	 									
	+									
	+									
	1									
Report Summary			nd							
Case Type	Date	Insp	2 nd Insp							
ECI, CNI, SLI, VMD	12/10/2021									
	+									
	 									
	-									





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business NoFB0125Date of Visit06/10/2021Site NoFS0860Site NameShapinsayCase No20210279Inspector

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

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

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory with regards to 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: 12/10/21

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/

FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020				
Case No: 2021-0311			Date of visit: 05/10/2021				
Time spent on site:	3hrs	Main Inspec	etor:				
Site No: FS1083	Site Name:	Groatay					
Business No: FB0119	Business Name:	Mowi Scotland Ltd					
Case Types: 1 ECI	2 CNI 3 SLI	4 VMD 5	6				
Water Temp (°C): 12.5	Thermometer No:	T205	FHI 045 completed				
Observations:	Region: WI	Water type: S	CoGP MA W-11				
Dead/weak/abnormally behaving	g fish present?	N If yes, see additional info	ormation/clinical score sheet.				
Clinical signs of disease observ	ed?		ormation/clinical score sheet.				
Gross pathology observed?		N If yes, see additional info	ormation/clinical score sheet.				
Diagnostic samples taken?		IN					
UNI/REG only - if unable to carry out intended visit detail reason below:							

Additional Case Information:

Site disposes morts at whiteshore cockles.

4 pens are being transferred to West Loch Tarbert in the next couple of weeks. Reason is due to previous problems with disease at West Loch Tarbert. Smolts failed often there due to temperature fluctuations. Growing them to a specific size at Groatay and then transferring to West Loch Tarbert.

Cleanerfish are planned to come on site in first week of November after pens have been thinned down (6%-10% lumpfish)

Stock on site is from Loch Arkaig and Glenfinnan.

Remote inspection conducted by and, supervised by on 01/10/2021. Site inspection conducted by and supervised by 05/10/2021. Samples taken for VMD on 05/10/2021 by and supervised by

FHI 059, Version 13		_	Issu	ed by: FHI	_		Date of issue	: 12/05/2020	
Case No:	2021-0311		Site No:	FS1083					
Date of Visit:		05/10/2021]		Inspector(s):				
Registration/Autho	risation Deta	iils							
Business/site details summary checked by site representative?									
2. Changes made to	details?						N		
Site Details (include cleaner fish for all sections)									
Total No facilities		14	Facilities sto	cked	12	No facilitie	s inspected	12	
Species	SAL								
Age group	2021 Q2								
No Fish	840,000								
Mean Fish Wt	1.5kg								
Next Fallow Date (S		Aug 2022	•	Next Input Da	te (Site)	April 2023			
Recent (last 4 wks)	disease probl	_		N	Any escapes			N	
If yes, detail:						`			
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 a		•						Y	
2. How are mortalitie	<u>_</u>				Other (detail)				
If other detail:		hiteshore Co							
Mortality records complete and correctly entered?								Y	
4. Recent mortality (last 4 wks): SAL 2021: Wk39, 4197,0.49%; Wk38 786, 0.09%; wk37, 1310,0.15%; Wl									
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?								Ť	
If yes, detail: reported to FHI								NI/A	
7. Have increased (unexplained) mortalities been reported to vet or FHI?							N/A		
If yes, detail action:							V		
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.							Ť		

Treatments and Medicines Records						
1. Recent treatments (see comment)?						
If yes, detail: T.M.S.						
If other, detail:						
2. Medicines records available for inspection?						
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						
Biosecurity records available for inspection?						
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 <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?						
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher						
health status, certification if required)?						
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: 28/03/2018-08/10/2021						

	ni 059, version 15							155	ueu by. r	111			
	Case no:	2021-03	311	Site No:		FS1083			Date of v		05/1	0/2021	05/
	Priority samples:	VI		ВА		PA		MG		у. НІ			
	Time sampling starts/ends:	15:0	00:00	15:3	0:00		Inspecto	or:		_	VMD No	. [17
	Environmental conditions:	1	Indoors	2		3		4		5			
	Summary samples	HIST		ВА		MG		VI		PA		Total Sa	mples
A	dd Fish/Pools - click												
Ш	Pool/Fish No			_									
L	Fish nos	1	2	3									
Ш	Pool Group												
	Species	SAL	SAL	SAL									
	Average weight	1.5kg	1.5kg	1.5kg									
	Sex	N/A	N/A	N/A									
	Water Type	SW	SW	SW									
tock Details	Stock Origin	Glenfinnan (FS0742)	Glenfinnan (FS0742)	Glenfinnan (FS0742)									
V.	Facility No	21	25	28									

10/2021	10/2021 Additional Sample Information:											
0 Total Tests assigned 0												

FHI 059, Version 13		Issued by: FHI			Date of	of issue	: 12/05/2020
Case Number:	2021-0311		Site No:	FS1083		Insp:	
Date of Visit	05/10/2021		No of m	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of m	novements on from equivalent MS	0	5	10	14	0
with GB) of susceptible species		novements on from equivalent zone or	0	9	18	26	0
.	Number of sup	ncluding third country	0			14	0
Movements off	Frequency of m		I 0			10	6
Movements on	Number of dest		0		6	10	3
Exposure via water		Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species	Farm is protect disinfection or b	ed (secure water supply through porehole)	0				
susceptible to same diseases)	farms upstream	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		1
	farms upstream	or in a coastal zone with category III or within 1 tidal excursion	1	3	6		
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro		0				0
	Processing own	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent statu	from zone or compartment of us	4				
		from Category III farm	8				
	Processing fish	from Category V farm	10				
Disposal of fish and fish by-	Site's own wast	te only processed.	0	1			
products	Common proce	esses with other farms	3				3
	Collection point	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0	i			0
·	Feeding unpas	teurised feed	5	1			
Biosecurity		Number of sites	1	2 or 3	≥4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		1
	Sites sharing st	taff and equipment	0	1	2		0
Disinfection of equipment	Yes		Го	1			0
between sites, use of footbaths etc	No		1				
CoGP/Regulator	ls.			,			
Practices in accordance with regulator or industry	Yes		0				0
code of practice	No		3				
Platform access to cages	Yes		0]			0
	No		2]			
					Total Rank		14 LOW

Case No:	2021-0311	5	Site No:	FS1083	
			'		
Sea Lice Inspection (Seawater Sites Only)				
1. Has the site experier	nced sea lice problems	in the previous 4 years?			N
2. Is the CoGP Farm M	lanagement Area (or e	uivalent) fallowed synchronously on	a single ye	ear class basis?	Υ
	•	nced in-feed and bath sea lice medic	`	•	Υ
-	-	vell as access to suitable biological a	nd/or mech	nanical control measure	es, and
can these be deployed	in a reasonable period	of time?			
_		ment agreement or statement releva	nt to the si	te and CoGP Farm	Υ
Management Area (or e	equivalent)?				
5. Are sea lice count re	cords available for insp	ection? (Legal SSI, CoGP Annex 6)			Υ
6. Do records adequate	ely reflect the required	standard specified in the SSI and the	CoGP? (Le	egal SSI, CoGP Annex	(6) Y
•		ow the suggested criteria for treatmer	nt in the Co	GP during the period to	hat Y
records are inspected?	(CoGP Annex 6)				
		nonis) numbers per fish been at a lev d that records are inspected?	el of 3 or a	bove (prior to w/b 10/6	/19) or Y
If ves. have these been	reported to the Fish H	ealth Inspectorate? If no, FHI see cor	mment.		Υ
•	•	s considered to cause significant wel		ms? (CoGP 4.3.81, 5.0	3.50) N
or to or orongulus illion		o concret to cause eignmeant we	.c.o prosic	(555) 115151, 51	
10. Have therapeutic tr	eatments been admini	tered or other actions taken when L.	salmonis l	evels have exceeded t	the Y
suggested criteria for tr	eatment or where C. e	ongatus is considered to have welfar	re implicati	ons? (CoGP 4.3.82, 5.3	3.51)
11. Has any other actio	n been taken (where a	oplicable)?			N/A
12. Have therapeutic tr	eatments or the action	taken had a significant impact upon	the lice lev	els recorded?	Υ
· ·		out in cooperation between participat			Υ
		vhere fewer populations or part popul	_		for Y
sea lice?					
15. Is there a site speci scenarios during the es		ment procedure with waypoints descr festation?	ibing set a	ctions to deal with reco	gnised Y
16. Do the sea lice leve	els observed on stocks	reflect sea lice count data? If no plea	se detail re	easons.	Y
					•
Containment Inspecti	on				
1. Has the site experier	nced equipment damag	e due to predators in the current or p	revious pro	oduction cycles?	N
2. Are measures in place	ce to mitigate against t	ne predation experienced on site? (De	etail below)		Υ
Bird nets	tensioned nets (with	weights) HDPE net	S		
If other, detail below:					
3. Have escape incide	nts or events been exp	erienced on or in the vicinity of the sit	e since the	last FHI inspection?	N
If Yes proceed with que	estions 4 – 9. If No skip	to question 10			
4. Have these been rep	orted to Scottish Minis	ers?			
5. Have these been rep	orted to local DSFB fo	thwith (where they exist)? (CoGP - 4	4.4.37, 5.4	.17)	
6. Have these been rep	orted to the SSPO and	local fisheries trusts forthwith (where	they exist)? (CoGP - 4.4.37, 5.4	.17)
7. Were methods (if an	y) used to recover esc	pees? If yes give detail			
		reed with local wild fish interests and	was permi	ssion given by Scottish	1
Ministers? (Legal, CoG	P – 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	d as satisfactory with re	gards to containment? If no, please o	detail reasc	on(s)	Υ

Issued by: FHI

FHI 059, Version 13

Date of issue: 12/05/2020

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0311	Site No: FS1083	
Date of Visit: 05/10/2021	Inspector:	
Point of Compliance 1. Is the farm under inspection located w	ithin a farm management area?	V.
If N, no further questions require comple	· · · · · · · · · · · · · · · · · · ·	Y
2. Has a current farm management agre3. Is the current FMAg/S available for ins4. Does the FMAg/S identify the relevant5. Does the FMAg/S identify the fish farm	t farm management area? n site(s) to which it applies? commencement of the agreement or stater	red? Y Y Y
Arrangements for Fish Health Manage 8. Does the FMAg/S identify the minimum farm?	e ment m health standards for the stocks to be intr	oduced to the area or Y
10. Does the FMAg/S identify the specie	tion requirements for stocks held in the are is of fish which may be stocked into the are turn stocking density of any pen on any farr	a or farm?
	ements for the storage and disposal of any m?	dead fish from any
Arrangements for The Management of 13. Does the FMAg/S identify arrangement	f Sea Lice ents for the sharing of data on sea lice num	bers and treatments?
14. Does the FMAg/S identify the available of statement?	pility and the use of medicines on farms cov	vered by the agreement
15. Does the FMAg/S identify any require lice on farms in the area or individual farm	ements for the sensitivity testing of availabl ms?	
16. Does the FMAg/S identify the circum used on farms in the area or individual fa	stances under which biological controls an	d cleaner fish are to be
	ements for synchronous treatments on farr	ms within the area?
Live Fish Movements 18. Does the FMAg/S identify the circum area or farm?	stances when live fish may be introduced o	or removed from the
19. Does the FMAg/S identify the arrang or individual farms?	ements for the movement of live fish on an	d off sites in the area

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Harvesting 20. Does the FMAg/S identify acceptab	ole harvest practices on farms in the area or ind	ividual farms?
date when a farm or area may be resto 22. Does the FMAg/S identify whether agreement or statement?	one or more year classes may be stocked onto broodstock or potential broodstock are to be ke	sites covered by the Y
Point of Compliance for Farm Manage 24. Does the farm management agree parties to the agreement?	gement Agreements Only ment include arrangements for persons to beco	me, or cease to be, N/A
Management and operation 25. Is the fish farm being managed and 26. What is the version no/date of issue	d operated in accordance with the agreement or e of the FMAg/S? 25/03/2021	r statement?

		_				_		
Case No:	2021-0311			Date of visit:	05/10/2021]		
Site No:	FS1083	1		Inspector:				
		•						
Results Summary	Freq.				te of Notifica			
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
				•				
Report Summary	D /		- nd -					
Case Type	Date	Insp	2 nd Insp					
ECI, CNI, SLI, VMD	19/10/2021							





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0119 Date of Visit 05/10/2021 Site No FS1083 Site Name Groatay

Case No 20210311 INSPECTOR

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

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

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

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

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.

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.



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-

Date: 18/10/2021

charter/

FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020			
Case No: 2021-0320			Date of visit: 11/10/2021			
Time spent on site:	minutes	Main Inspecto	r:			
Site No: FS0305 Business No: FB0573	Site Name: Business Name:	Milnholm Hatchery Aqualife Services Ltd				
Case Types: 1 ECI 2	CNI 3	4 5	6			
Water Temp (°C): 10.1	Thermometer No:	T148	FHI 045 completed			
Observations:	Region: CE	Water type: F	CoGP MA			
Dead/weak/abnormally behaving fish present? Clinical signs of disease observed? Gross pathology observed? Diagnostic samples taken? N If yes, see additional information/clinical score sheet. N If yes, see additional information/clinical score sheet. N If yes, see additional information/clinical score sheet.						
UNI/REG only - if unable to carry out intended visit detail reason below:						

Additional Case Information:

Remote inspection conducted on 7th October by with observing. Physical inspection conducted on 11th October by with with with observing.

All units (stocked and non-stocked) checked. Fish on site appeared healthy and responding as expected. No mort's, moribund or lethargic fish observed during inspection. Site conducting experimental work with no fish going on for human consumption. Manager unsure when the hatchery will be stocked again, if at all, prior to expiry of lease.

FHI 059, Version 13		_	Issu	ed by: FHI	_		Date of issue	e: 12/05/2020
Case No:	2021-0320		Site No:	FS0305				
Date of Visit:		11/10/2021]		Inspector(s):			
Registration/Autho	risation Deta	nils						
1. Business/site deta			ite representa	ative?			Υ	
2. Changes made to	•	·	·				Υ	
Site Details (includ	e cleaner fis	h for all secti	ions)					
Total No facilities		83	Facilities sto	cked	18	No facilitie	es inspected	83
Species	SAL							
Age group	2021							
No Fish	360							
Mean Fish Wt	50g							
Next Fallow Date (S	ite)	Nov./Dec 202	21	Next Input Da	ite (Site)	Unsure		
Recent (last 4 wks)	disease probl	ems?		N	Any escapes	(since last	visit)?	N
If yes, detail:								
 Are records comp Are movement red Are records comp Are health certificant Transport Records Are any movement If yes, is there a system 	cords available elete and corre ates for introd nts carried ou	e for dead fis ectly entered? luctions (outw	h and waste? vith GB) availa half) of the bu	able? usiness (not usi	_			Y Y N/A Y
Mortality Records								
1. Mortality records a	available for in	nspection?						Y
2. How are mortalitie	es disposed o	f?			Other (detail)			
If other detail:	Keenan Rec	ycling Ltd. for	composting					
3. Mortality records of	complete and	correctly ente	ered?					Y
4. Recent mortality (last 4 wks):		35 mort's fo	r whole site sin	ice input 26th	Aug. to 3rd	Oct. due to fu	ngus
5. Evidence of recen	nt increased/a	typical mortal	ities?					N
If yes, facility no's/no	mortality per	facility/no sto	ock per facility	//reason:				
6. Any other peaks in	n mortality du	ring period ch	ecked?					N
If yes, detail:								
7. Have increased (u	ınexplained) ı	mortalities be	en reported to	vet or FHI?				N/A
If yes, detail action:								
8. Have 'mortality ev	ents' been re	ported to FHI	? If no, enter	details on mort	ality events sh	neet.		N/A

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Treatments and Medicines Records		

Treatments and Medicines Records	
1. Recent treatments (see comment)?	V
If yes, detail: Formalin	
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)?	
If other, detail:	
	V
6. Are medicines stored appropriately?	<u>'</u>
Biosecurity Records	
Biosecurity records available for inspection?	Y
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 <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	Y
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher	Y
health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	Y
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of	Y
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	Y
If no, detail:	
Results of Surveillance	
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	N
2. If yes, are results available for inspection?	
3. Any significant results?	
If yes, detail (if not detailed under recent disease problems).	
December the short heat was a 100/04/0000 07/40/0004	

Records checked between: 03/04/2019 - 07/10/2021

FHI 059, Version 13		Issued by: FHI			Date o	of issue	: 12/05/2020
Case Number:	2021-0320		Site No:	FS0305		Insp:	
Date of Visit	11/10/2021		No of m	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out		novements on from equivalent MS	0	5	10	14	0
with GB) of susceptible species		novements on from equivalent zone or including third country	0	9	18	26	0
•	Number of sup	• •	0		10	14	0
Movements off	Frequency of m	novements off	l 0	3	6	10	3
Wovernents on	Number of des		0		6	10	3
Exposure via water		Site contacts	0	1-5	6-10	_	
Water contacts with other farms (holding species	disinfection or l	•	0				
susceptible to same diseases)	farms upstream	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		1
	farms upstream	or in a coastal zone with category III n or within 1 tidal excursion	1	3	6		
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	g plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro		0				0
	Processing own	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
	equivalent statu		4				
		from Category III farm	8				
	Processing fish	n from Category ∨ farm	10				
Disposal of fish and fish by-	Site's own was	te only processed.	0]			
products	Common proce	esses with other farms	3				3
	Collection poin	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0	i			0
	Feeding unpas	teurised feed	5	1			
Biosecurity		Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		1
	Sites sharing s	taff and equipment	0	1	2		1
Disinfection of equipment	Yes		0	1			0
between sites, use of footbaths etc	No		1				
CoGP/Regulator				,			
Practices in accordance with regulator or industry	Yes		0				0
code of practice	No		3				
Platform access to cages	Yes		0]			0
	No		2	1			
					Total Rank		12 LOW

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0320	Site No:	FS0305
Sea Lice Inspection (Seawater Sites Only) 1. Has the site experienced sea lice problems in 2. Is the CoGP Farm Management Area (or equi 3. Does the site have access to a range of licent azamethiphos and emamectin benzoate) as we 4. Is there a signed documented farm managem Management Area (or equivalent)? 5. Are sea lice count records available for inspect 6. Do records adequately reflect the required state 7. Are sea lice (L. salmonis) record levels below records are inspected? (CoGP Annex 6)	the previous 4 years? ivalent) fallowed synchronously on a single y ced in-feed and bath sea lice medications (in ll as access to suitable biological and/or medication agreement or statement relevant to the section? (Legal SSI, CoGP Annex 6) andard specified in the SSI and the CoGP? (In the suggested criteria for treatment in the Company in the suggested criteria for treatment in the company in the suggested criteria for treatment in the suggested criteria	year class basis? Including deltamethrin, chanical control measures, and site and CoGP Farm Legal SSI, CoGP Annex 6) CoGP during the period that
8. Have average adult female sea lice (<i>L. salmo</i> If yes, have these been reported to the Fish Hea 9. Is <i>C. elongatus</i> infestation at a level which is 10. Have therapeutic treatments been administe suggested criteria for treatment or where <i>C. elon</i> 11. Has any other action been taken (where app 12. Have therapeutic treatments or the actions to 13. Are treatments, where conducted, carried ou 14. Is there a harvesting strategy for the site, who 15. Is there a site specific written lice managements. Do the sea lice levels observed on stocks respectively.	alth Inspectorate? If no, FHI see comment. considered to cause significant welfare problemed or other actions taken when <i>L. salmonis ngatus</i> is considered to have welfare implicationable)? aken had a significant impact upon the lice leaf in cooperation between participating farms here fewer populations or part populations are ent procedure with waypoints describing set a	lems? (CoGP 4.3.81, 5.3.50) **levels* have exceeded the tions? (CoGP 4.3.82, 5.3.51) evels recorded? ? e held without treatment for actions to deal with recognised
Containment Inspection 1. Has the site experienced equipment damage 2. Are measures in place to mitigate against the Site Inside, Nets over each tank If other, detail below: 3. Have escape incidents or events been expert If Yes proceed with questions 4 – 9. If No skip to 4. Have these been reported to Scottish Minister 5. Have these been reported to local DSFB forth 6. Have these been reported to the SSPO and local 7. Were methods (if any) used to recover escape	predation experienced on site? (Detail below ienced on or in the vicinity of the site since the organism of the site since t	ne last FHI inspection? N 4.17)
8. If gill nets were deployed was this action agre Ministers? (Legal, CoGP – 4.4.38, 5.4.18) 9. What action was taken to prevent and minimis be considered under satisfactory measures 10. Is the site inspected as satisfactory with regard	ed with local wild fish interests and was pern se the risk of further escapes? (Not covered s of the Act)	in code but could

Case No:	2021-0320			Date of visit:	11/10/2021			
Site No:	FS0305	1		Inspector:		1		
Results Summary	Freq.				te of Notifica			
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
Report Summary								
Case Type	Date	Insp	2 nd Insp					
ECI, CNI	18/10/2021		z insp					
LOI, OIVI	10/10/2021							





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0573 Date of Visit 11/10/2021

SITE NO FS0305 SITE NAME Milnholm Hatchery
CASE NO 20210320 INSPECTOR

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

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

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

Medicine records were inspected and found to be adequately maintained.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory.

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



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

FHI 059, Version 13	Is	sued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0335			Date of visit: 06/10/2021
Time spent on site:	hours	Main Inspec	tor:
Site No: FS0853	Site Name:	Lochmaddy	
Business No: FB0398	Business Name:	Loch Duart Ltd	
Case Types: 1 ECI	2 CNI 3 SLI	4 VMD 5	6
Water Temp (°C): 12.7	Thermometer No:	T148	FHI 045 completed
Observations:	Region: WI	Water type: S	CoGP MA W-12
Dead/weak/abnormally behaving	fish present?	N If yes, see additional info	ormation/clinical score sheet.
Clinical signs of disease observe	d?		ormation/clinical score sheet.
Gross pathology observed? Diagnostic samples taken?		N If yes, see additional info	ormation/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit detail r	eason below:	

Additional Case Information:

Wild caught ballan WRS (locally sourced). Added to site April to September. May add lumpfish during winter 2021.

Pancreas disease detected on site early 2020. Mortalities in Wk21 to Wk43 were confirmed as PD. Low level AGD on site at that time as well. Stock from Ormsary and Clachbreac.

2021: Current cycle have been vaccinated by PD. Ormsary stock.

All harvests are by deadhaul.

Cleanerfish Mortality per production cycle: 2017 1322 ballan wrasse 2019 5137 ballan wrasse 2021 688 ballan wrasse

Site is split into two groups with fish currently stocked in Caolas Loch Portain group. Fish due to be split down into Ferramus group which is being prepped.

Fish sampled for VMD appeared healthy.

Remote inspection conducted by and supervised by on 28/09/2021. Site inspection conducted by supervised by on 06/10/2021. VMD sampling conducted by supervised by on 06/10/2021.

FHI 059, Version 13			Issu	ed by: FHI			Date of issue	: 12/05/2020
Case No:	2021-0335		Site No:	FS0853				
Date of Visit:		06/10/2021]		Inspector(s):			
Registration/Autho	risation Det	ails						
1. Business/site deta	ails summary	checked by s	ite representa	ative?			Υ	
2. Changes made to	details?						Υ	
Site Details (include	e cleaner fis	h for all sect	ions)					
Total No facilities		20	Facilities sto	cked	10	No facilitie	s inspected	20
Species	SAL	WRS						
Age group	Q2 2021	2021						
No Fish	508,000	6,200						
Mean Fish Wt	800g	120-140g						
Next Fallow Date (Si		Nov 2022		Next Input Da	ite (Site)	April 2023		
Recent (last 4 wks) o	•				Any escapes			N
If yes, detail:	· ·				'	·	,	
 Are movement red Are records comp Are health certification Transport Records Are any movement fyes, is there a syst 	lete and corr ates for introd ats carried ou	ectly entered? ductions (outw at by (or on be	vith GB) availa	able? usiness (not usi				N/A
Mortality Records								
1. Mortality records a	available for i	nspection?						Y
2. How are mortalitie					Other (detail)			
	-	Cockles- land	fill					
3. Mortality records of								Y
4. Recent mortality (last 4 wks): SAL: Wk38, 398, 0.08%; Wk37, 450, 0.09%; Wk36, 481, 0.10%; Wk3						ULDE CO		
Recent mortality (I	5. Evidence of recent increased/atypical mortalities?						481, 0.10%; V	VK35 6U,
• `	t increased/a	atypical mortal	lities?		. Ko7, 100, 0.0	9 70, VVK30,	481, 0.10%; V	VK35 60,
• `		• •		/reason:	, 100, 0.0	970, WK30,	481, 0.10%; V	,
5. Evidence of recen		• •		/reason:		970, WK30,	481, 0.10%; V	,
5. Evidence of recen If yes, facility nos/no	mortality per	r facility/no sto	ck per facility	/reason:		970, VVK30,	481, 0.10%; V	,
5. Evidence of recen	mortality per	r facility/no sto	ck per facility	/reason:		970, VVK30,	481, 0.10%; V	N
Evidence of recen If yes, facility nos/no Any other peaks in	mortality per	r facility/no sto	eck per facility			570, VVK30,	481, 0.10%; V	N
5. Evidence of recen If yes, facility nos/no 6. Any other peaks in If yes, detail:	mortality per	r facility/no sto	eck per facility			970, VVK30,	481, 0.10%; V	N

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)?					
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?	L				
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease in detected been included and how and when that will be petition to Scottish Ministers?					
is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?					
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher					
health status, certification if required)?					
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	Y				
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?					
7. Is documentation available regarding the measures in place to maintain the physical containment of	Y				
aquaculture animals held on site?					
8. Have the biosecurity procedures been adequately implemented on site?	Y				
If no, detail:					
Results of Surveillance					
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	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). Pancreas Disease- 2020 Wk21 to er	nd cycle Wk43				
Low level AGD					
Records checked between: 30/08/2017-28/09/2021					

FHI 059, Version 13						Issued by: FHI							
	Case no:	2021-03	335	Site No:		FS0853			Date of vis Sampling:		06/	10/2021	06/
	Priority samples:	VI		ВА		PA		MG	Camping.	н			
	Time sampling starts/ends:		30:00		0:00	_	Inspecto	or:			VMD No). [5
	Environmental conditions:	1	Sunny	2	Cloudy	3	Dry	4	_	5			
	Summary samples	HIST		ВА		MG		VI		PA		Total Sa	mples
A	dd Fish/Pools - click												
	Pool/Fish No	F1	F2										
	Fish nos												
	Pool Group												
	Species	SAL	SAL										
	Average weight	800g	800g										
	Sex	N/A	N/A										
	Water Type	SW	SW										
		ပ္	ပ္										
9		rea 32)	rea 32)										
Details		dr: 280	약 88				l						
		Clachbreac (FS0892)	Clachbreac (FS0892)										
Stock	Facility No	6	6										
U,	,												

10/2021 Additional Sample Information:													
2	2 Total Tests assigned 0												

FHI 059, Version 13		Issued by: FHI			Date (of issue	: 12/05/2020
Case Number:	2021-0335		Site No:	FS0853		Insp:	
Date of Visit	06/10/2021		No of m	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of m	novements on from equivalent MS	0	5	10	14	0
with GB) of susceptible species		novements on from equivalent zone or		,	10	26	0
species	Number of sup	ncluding third country	0		18 10	26 14	0
Movements off	Frequency of m		0		6	10 10	0
Exposure via water	rvarriber or des	Site contacts					
Water contacts with other		ed (secure water supply through	I				
farms (holding species	disinfection or l	•	0				
susceptible to same diseases)		or in a coastal zone with category I or within 1 tidal excursion	1	2	4		2
,		or in a coastal zone with category III					
		n or within 1 tidal excursion	1	3	6		
		or in a coastal zone with category V nor within 1 tidal excursion	1	4	8		
	iams apotream	TOT WILLIAM T LIGHT EXCUSION					
Management practices	A my mynnannima		None	Secure	Unsecure		
Water contacts with processors	Any processing	g plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	0				
and raise of the amount	Processing own	n fish (re-cycling risk)	1				1
	Processing fish	from MS of equivalent status	2				
		from zone or compartment of					
	equivalent statu	us i from Category III farm	4				
		r from Category ∀ farm	8				
			10]			
Disposal of fish and fish by- products	Site's own was	te only processed.	0				0
products	-	esses with other farms	3				
	Collection poin	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0	1			0
	Feeding unpas	teurised feed	5				
Biosecurity		Number of sites	5 1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		0
	Sites sharing s	taff and equipment	0	1	2		
Disinfection of equipment	Yes		Το]			
between sites, use of footbaths etc	No		1				
CoGP/Regulator	•			•			
Practices in accordance	Yes		0				0
with regulator or industry code of practice	No		3				
Platform access to cages	Yes		0	1			0
	No		2	1			
				J			
					Total		3
					Rank		LOW

FHI 059, Version 13		Issued by: FHI		Date of iss	sue: 12/05/2020
Case No:	2021-0335		Site No:	FS0853	
2. Is the CoGP Farm Ma 3. Does the site have a	ced sea lice problems anagement Area (or eq ccess to a range of lice mectin benzoate) as w	in the previous 4 years? puivalent) fallowed synchronously of the factor of time?	dications (in	ncluding deltamethrin,	Y Y Y
4. Is there a signed doc Management Area (or e		ment agreement or statement rele	vant to the s	site and CoGP Farm	Υ
	· ·	ection? (Legal SSI, CoGP Annex 6 standard specified in the SSI and the	•	Legal SSI, CoGP Annex 6)	Y
7. Are sea lice (L. salmo records are inspected?		ow the suggested criteria for treatm	ent in the C	CoGP during the period that	N
		nonis) numbers per fish been at a lid that records are inspected?	evel of 3 or	above (prior to w/b 10/6/19) or	r Y
If yes, have these been	reported to the Fish He	ealth Inspectorate? If no, FHI see	comment.		Υ
9. Is C. elongatus infes	tation at a level which i	s considered to cause significant v	elfare prob	lems? (CoGP 4.3.81, 5.3.50)	N
•		tered or other actions taken when congatus is considered to have well			Y
11. Has any other action	n been taken (where ap	oplicable)?			N/A
12. Have therapeutic tre	eatments or the actions	taken had a significant impact upo	on the lice le	evels recorded?	N
13. Are treatments, whe	ere conducted, carried	out in cooperation between particip	ating farms	?	Υ
14. Is there a harvesting sea lice?	g strategy for the site, v	where fewer populations or part populations	oulations are	e held without treatment for	Υ
15. Is there a site specific scenarios during the estimates		ment procedure with waypoints des festation?	cribing set	actions to deal with recognised	d Y
16. Do the sea lice leve	ls observed on stocks i	reflect sea lice count data? If no pl	ease detail i	reasons.	Υ
Containment Inspection	on				
	• • •	e due to predators in the current or		•	N
·		ne predation experienced on site?	Detail belov	v)	Υ
Tension nets If other, detail below:	Bird/top nets	HDP nets			
il other, detail below.					
3. Have escape incider	nts or events been expe	erienced on or in the vicinity of the	site since th	ne last FHI inspection?	N
If Yes proceed with que	•	•			
4. Have these been rep	·	•			
5. Have these been rep	orted to local DSFB for	thwith (where they exist)? (CoGP -	- 4.4.37, 5.4	4.17)	
6. Have these been rep	orted to the SSPO and	local fisheries trusts forthwith (who	ere they exis	st)? (CoGP – 4.4.37, 5.4.17)	
7. Were methods (if any	/) used to recover esca	spees? If yes give detail			
8. If gill nets were deplo Ministers? (Legal, CoGi		reed with local wild fish interests a	nd was pern	nission given by Scottish	
, •		nise the risk of further escapes? (N	lot covered	in code but could	
be considered under	•				
10. Is the site inspected	as satisfactory with re	gards to containment? If no, pleas	e detail reas	son(s)	Y

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0335	Site No: FS0853	
Date of Visit: 06/10/2021	Inspector:	
Point of Compliance	ithin a farm management area?	V
 Is the farm under inspection located will If N, no further questions require complete 	_	Y
2. Has a current farm management agree3. Is the current FMAg/S available for ins4. Does the FMAg/S identify the relevant5. Does the FMAg/S identify the fish farm	farm management area? n site(s) to which it applies? commencement of the agreement or staten	ed? Y Y Y Y
farm? 9. Does the FMAg/S identify the vaccinat 10. Does the FMAg/S identify the species 11. Does the FMAg/S identify the maximindividual farm?	m health standards for the stocks to be intro- tion requirements for stocks held in the area is of fish which may be stocked into the area um stocking density of any pen on any farm ements for the storage and disposal of any	a or farm? A or farm? Y Y In in the area or the
Arrangements for The Management of 13. Does the FMAg/S identify arrangement	f Sea Lice ents for the sharing of data on sea lice numl	bers and treatments?
14. Does the FMAg/S identify the availab of statement?	oility and the use of medicines on farms cov	ered by the agreement Y
	ements for the sensitivity testing of available ms?	e treatments for sea
16. Does the FMAg/S identify the circums used on farms in the area or individual fa	stances under which biological controls and arms?	d cleaner fish are to be
17. Does the FMAg/S identify the arrange	ements for synchronous treatments on farm	ns within the area?
area or farm?	stances when live fish may be introduced o	
or individual farms?	on the first the first of the first of and	The state of the s

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Harvesting 20. Does the FMAg/S identify acceptab	ole harvest practices on farms in the area or indiv	vidual farms?
date when a farm or area may be restoned. 22. Does the FMAg/S identify whether agreement or statement? 23. Does the FMAg/S identify whether	one or more year classes may be stocked onto s broodstock or potential broodstock are to be kep	sites covered by the
covered by the agreement or statemen Point of Compliance for Farm Management		
-	ment include arrangements for persons to becom	ne, or cease to be, N/A
Management and operation 25. Is the fish farm being managed and 26. What is the version no/date of issue	d operated in accordance with the agreement or see of the FMAg/S? Version 10- Sept 202	

Case No:	2021-0335	J		Date of visit:	06/10/2021	1		
Site No:	FS0853	1		Inspector:				
		1						
Results Summary	Freq.		_		te of Notifica			
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
	+							
	 							
	_							
	-							
	+							
	 							
Report Summary								
Case Type	Date	Insp	2 nd Insp					
ECI, CNI, SLI, VMD	13/10/2021							
	+							
	 							





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0398

DATE OF VISIT 06/10/2021

SITE NO FS0853

SITE NAME Lochmaddy

Case No 20210335 INSPECTOR

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

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

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

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

Mortality records were inspected and found to be adequately maintained.

Mortality levels had exceeded the reporting criteria since the last inspection and had been reported to the Fish Health Inspectorate as required.

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

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

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory with regards to 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.



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/

FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0336			Date of visit: 06/10/2021
Time spent on site:	3Hrs	Main Inspe	ctor:
Site No: FS1260	Site Name:	Sound of Harris	
Business No: FB0398	Business Name:	Loch Duart Ltd	
Case Types: 1 ECI	2 CNI 3 SLI	4 VMD 5	6
Water Temp (°C): 12.4	Thermometer No:	T148	FHI 045 completed
Observations:	Region: WI	Water type: S	CoGP MA None
Dead/weak/abnormally behaving	•		formation/clinical score sheet.
Clinical signs of disease observ	ed?		formation/clinical score sheet.
Gross pathology observed? Diagnostic samples taken?		Y If yes, see additional in	formation/clinical score sheet.
Diagnostic samples taken:			
UNI/REG only - if unable to carr	y out intended visit detai	il reason below:	

Additional Case Information:

Mortality related to AGD has been seen across all pens. Specifically, the smaller grades more affected. Failed smolts seen during wk8 to wk10 and fish with fungus was noted. Transferred from Ormsary and Clachbreac. Low level plankton observed throughout the cycle. Fish transferred from Oldany/Clashnessie for top up of stock following gill issues on site in Autumn 2020.

Locally, wild caught ballan WRS. Since the start of the cycle.

Site holding future broodstock fish. 5000 fish will be kept and transferred to Oldany/Clashnessie Bay.

All harvests are by deadhaul.

Site is not currently located in a CoGP Farm management area

Cleanerfish Mortality per production cycle: 2018 571 ballan wrasse 2020 2513 ballan wrasse; 940 lumpfish

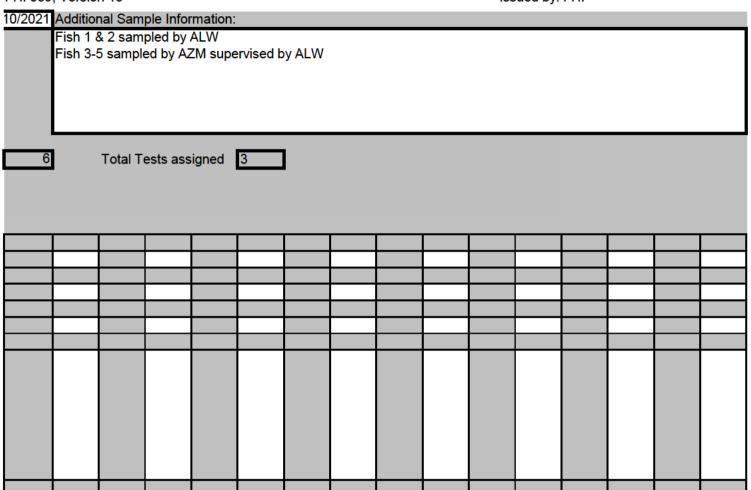
Number of lethargic fish seen in all pens Five fish removed from one pen for diagnostic sampling.

Remote inspection conducted by and supervised by on 28/09/2021. Site inspection conducted by shadowed by on 06/10/2021. VMD sampling conducted by and supervised by on 06/10/2021. Diganostic taken by and on 06/10/2021.

FHI 059, Version 13		_	Issu	ed by: FHI	_		Date of issue	: 12/05/2020	
Case No:	2021-0336		Site No:	FS1260					
Date of Visit:		06/10/2021]		Inspector(s):				
Registration/Autho	risation Deta	iils							
1. Business/site deta	ails summary	checked by s	ite representa	ative?			Υ		
2. Changes made to	details?						Υ		
Site Details (includ	e cleaner fis	h for all secti	ions)						
Total No facilities	c cicarici iis	20	Facilities sto	cked	11	No facilities	s inspected	20	
Species	SAL	WRS	T domined sto	- CROCA		TTO TOOMING	mopeoted		
Age group	S1 2020	mixed							
No Fish	106,400	6,700							
Mean Fish Wt	5.57kg	120g							
Next Fallow Date (S		Nov 2021		Next Input Da	te (Site)	April 2022			
Recent (last 4 wks)	*				Any escapes		visit)?	N	
	AGD (gill pro				7 mly occuped	(on too table)	ioity.		
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 a	available for i	nspection?						Y	
2. How are mortalities	es disposed o	f?			Other (detail)				
If other detail:		Cockles- land							
3. Mortality records of	complete and	correctly ente	ered?					Y	
4. Recent mortality (•			5850, 5.47%; \	Nk37,6990, 6.	.13%; Wk36	, 6087,4.19%	; Wk35,	
5. Evidence of recent increased/atypical mortalities?							Y		
If yes, facility nos/no	mortality per	facility/no sto	ck per facility	/reason:					
across the site (AGE									
6. Any other peaks i	n mortality du	ring period ch	ecked?					N	
If yes, detail:									
7. Have increased (u	ınexplained) ı	nortalities be	en reported to	vet or FHI?				N/A	
If yes, detail action:									
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.							Y		

Treatments and Medicines Records	
1. Recent treatments (see comment)?	Y
If yes, detail: T.M.S.	
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	
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	Y
health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	T
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of	Y
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site? If no, detail:	1
II IIO, Uetali.	
Results of Surveillance	
Has any animal health surveillance been carried out by, or on behalf of, the business?	Y
2. If yes, are results available for inspection?	
3. Any significant results?	Ÿ
If yes, detail (if not detailed under recent disease problems). AGD detected/positive , August 2021	
in job, detail (in not detailed ander recent disease problems).	
Records checked between: 24/07/2018-28/09/2021	

П	HI 059, Version 13							ISS	sued by: F	ш			
	Case no:	2021-03	336	Site No:		FS1260			Date of v		06/	10/2021	06/
	Priority samples:	VI		ВА		PA		MG		HI		l	
	Time sampling starts/ends:		0:00		0:00		Inspecto	or:		-1	VMD No	o. [5
	Environmental conditions:	1	Windy	2	Cloudy	3	Dry	4	ш	5			
	Summary samples	HIST	Y	ВА	Y	MG	Y	VI		PA		Total Sa	mples
A	dd Fish/Pools - click												
	Pool/Fish No	F1	F2	F3	F4	F5	P1						
	Fish nos	1	2	3		5		6					
	Pool Group	P1	P1	P1		P1		•					
	Species	SAL	SAL	SAL		SAL	SAL	SAL	$\overline{}$				
	Average weight		5.5kg			5.5kg		5.5kg					
	Sex	N/A	N/A	N/A		N/A	N/A	N/A					
	Water Type	SW											
											,		
(0		ည္က	ည္က	ည္က	ည္ထ	ည္က	၁၉	ည္က					
Details		ore 32)	res 32)	ore 32)	ores 32)	ore 32)	res 32)	ore 32)					
Dei		chb 989	chb 086	chb 088	chb 086	chb 089	chb 089	chb 089					
\ \	Stock Origin	Clachbreac (FS0892)											
Stock	Facility No	11	11	11	11	11		14					



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

2021-0336 FS1260 Method of killing: Percussive Case no: Site No: Inspector(s): Date of visit: 06/10/2021 Sheet Relevant: N S for strong presence: M for medium presence: W for weak presence 13:30 Time sampled after death (if > 45 minutes) 13:30 14:00 14:00 14:45 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 Exophthalmic Eyes Enophthalmic (sunken) Cataract Haemorrhagic Gills Pale Zoned Necrotic Lesions Flank Elsewhere Vent Inflamed Trailing faeces Lice Load Estimate numbers Internal Signs Clear **Ascites** Bloody Oedema In tissues Heart Pale/anaemic Granulomas Deformed Liver Petechial haem Gross haem Tissue breakdown Colour number(s) Granulomas Lesions Pyloric caeca Petechial haem **Tubules mauve** Lack of fat Enlarged Spleen Granulomas Gut No food present Yellow pseudo-faeces External haem Internal haem Body wall Haemorrhaging Haemorrhaging Swim bladder Fluid filled Kidney Swollen Grey Granular Liquefied General Parasites present Anaemia

Case no: 2021-0336

Date of visit: 06/10/2021

0.5	W for one form one on W for						
S for strong presen Fish Number	ce: M for medium presence: W for v	<u>^</u>					
	er death (if > 45 minutes)						
External Signs	er death (ii > 45 inindles)						
Behaviour	Moribund						
Donavious	Lethargic						
	Hanging vertical						
	Spiralling						
	Flashing						
	Loss of equilibrium						
Body	Dark						
	Distended abdomen						
	Anorexic						
	Scale Oedema						
Opercula	Shortened						
	Flared						
Haemorrhaging	Throat						
	Ventrum						
	Base of fins						
Free	Elsewhere						
Eyes	Exophthalmic						
	Enophthalmic (sunken) Cataract						
	Haemorrhagic						
Gills	Pale						
Ollis	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						
12	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						
Camanal	Liquefied						
General	Parasites present Anaemia						
	IAHACIIIIA						

issued by. I i ii	Date of issue. 12/0
Again, significant adhesions were evident.	
_	_
n, gills were not as ragged as previous fish	n, yet white plaques were present.
r	was significant, as well as gills were found ure was noted to have a tongue-like shape are water. Gills were found to be damaged was Again, significant adhesions were evident. Emed pale. Inken and damaged middle, in addition, rub as present. Liver colour classified as a 4. Psecular Silight rubbing present on the snout. Gills wark (6/7), and again adhesions are present. Ton, gills were not as ragged as previous fisher.

FHI 059, Version 13		Issued by: FHI			Date o	of issue	: 12/05/2020
Case Number:	2021-0336		Site No:	FS1260		Insp:	
Date of Visit	06/10/2021		No of me	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of m	novements on from equivalent MS	0	5	10	14	0
with GB) of susceptible species		novements on from equivalent zone or including third country	0	9	18	26	0
•	Number of sup		0		10	14	0
Movements off	Frequency of m	novements off	l 0	3	6	10	6
	Number of desi		0		6	10	3
Exposure via water		Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species	disinfection or l	,	0				
susceptible to same diseases)	farms upstream	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		2
	farms upstream	or in a coastal zone with category III n or within 1 tidal excursion	1	3	6		
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	g plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	0				
	Processing own	n fish (re-cycling risk)	1				1
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent statu	from zone or compartment of us	4				
		from Category III farm	8				
	Processing fish	rfom Category ∨ farm	10				
Disposal of fish and fish by-	Site's own wast	te only processed.	0]			0
products	Common proce	esses with other farms	3	1			
	Collection point	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0	i			0
	Feeding unpas	teurised feed	5				
Biosecurity		Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		0
	Sites sharing st	taff and equipment	0	1	2		0
Disinfection of equipment	Yes		0]			0
between sites, use of footbaths etc	No		1				
CoGP/Regulator							
Practices in accordance with regulator or industry	Yes		0				0
code of practice	No		3				
Platform access to cages	Yes		0	1			0
	No		2				
					Total Rank		12 LOW

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0336	Site No:	FS1260
3. Does the site have access to a range of licer	uivalent) fallowed synchronously on a single yean need in-feed and bath sea lice medications (inclu ell as access to suitable biological and/or mecha	iding deltamethrin,
	ment agreement or statement relevant to the site	and CoGP Farm
5. Are sea lice count records available for inspe	ection? (Legal SSI, CoGP Annex 6) andard specified in the SSI and the CoGP? (Leg	gal SSI, CoGP Annex 6)
7. Are sea lice (<i>L. salmonis</i>) record levels below records are inspected? (CoGP Annex 6)	w the suggested criteria for treatment in the CoG	P during the period that
8. Have average adult female sea lice (<i>L. salmo</i> 2 or above (from w/b 10/6/19) during the period	onis) numbers per fish been at a level of 3 or about that records are inspected?	ove (prior to w/b 10/6/19) or Y
If yes, have these been reported to the Fish He	alth Inspectorate? If no, FHI see comment.	Y
•	s considered to cause significant welfare problem	ns? (CoGP 4.3.81, 5.3.50)
•	ered or other actions taken when <i>L. salmonis levengatus</i> is considered to have welfare implication	
•	taken had a significant impact upon the lice leve	
13. Are treatments, where conducted, carried o 14. Is there a harvesting strategy for the site, w sea lice?	ut in cooperation between participating farms? here fewer populations or part populations are h	eld without treatment for
15. Is there a site specific written lice managem scenarios during the escalation of a sea lice inf	nent procedure with waypoints describing set act restation?	ions to deal with recognised Y
16. Do the sea lice levels observed on stocks re	eflect sea lice count data? If no please detail rea	sons. Y
Containment Inspection		
	e due to predators in the current or previous prod	luction cycles?
	e predation experienced on site? (Detail below)	Y
HDP netting tension nets	bird nets/top nets	
If other, detail below:		
2		
	rienced on or in the vicinity of the site since the li	ast FHI inspection?
If Yes proceed with questions 4 – 9. If No skip t 4. Have these been reported to Scottish Ministe		
•	hwith (where they exist)? (CoGP - 4.4.37, 5.4.1	7)
	local fisheries trusts forthwith (where they exist)?	
o. Have these been reported to the cor o that	issui nonones auste foranmar (miere ansy existy).	4.4.07, 6.4.17)
7. Were methods (if any) used to recover escap	pees? If yes give detail	
8. If gill nets were deployed was this action agre Ministers? (Legal, CoGP – 4.4.38, 5.4.18)	eed with local wild fish interests and was permiss	sion given by Scottish
· · ·	ing the view of fruth an analysis (Alatanasa	and but sould
	ise the risk of further escapes? (Not covered in c	code but could
be considered under satisfactory measure	gards to containment? If no, please detail reason	(s) Y
To the the moperior as satisfactory with reg	garas to containment: If no, piease detail reason	1

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0336	Site No: FS1260	
Date of Visit: 06/10/2021	Inspector:	
Point of Compliance	ithin a farma managamant ana 2	
 Is the farm under inspection located w If N, no further questions require complete 	_	N
Points of Compliance for Both Farm I 2. Has a current farm management agre 3. Is the current FMAg/S available for ins 4. Does the FMAg/S identify the relevant 5. Does the FMAg/S identify the fish farm	Management Agreements and Statement ement or statement (FMAg/S) been prepar spection? It farm management area? In site(s) to which it applies? Commencement of the agreement or staten	ed?
farm? 9. Does the FMAg/S identify the vaccina 10. Does the FMAg/S identify the specie 11. Does the FMAg/S identify the maxim individual farm?	m health standards for the stocks to be intro- tion requirements for stocks held in the area is of fish which may be stocked into the area num stocking density of any pen on any farm dements for the storage and disposal of any	a or farm? a or farm? n in the area or the
Arrangements for The Management of 13. Does the FMAg/S identify arrangements	f Sea Lice ents for the sharing of data on sea lice num	bers and treatments?
14. Does the FMAg/S identify the available of statement?	oility and the use of medicines on farms cov	vered by the agreement
15. Does the FMAg/S identify any require lice on farms in the area or individual far	ements for the sensitivity testing of available ms?	e treatments for sea
16. Does the FMAg/S identify the circum used on farms in the area or individual fa	stances under which biological controls and arms?	
	ements for synchronous treatments on farm	ns within the area?
area or farm?	estances when live fish may be introduced of	
or individual farms?	chieffe for the movement of live half off an	d on sites in the area

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Harvesting 20. Does the FMAg/S identify acceptab	ole harvest practices on farms in the area or indiv	vidual farms?
Fallowing 21. Does the FMAg/S identify the dates date when a farm or area may be resto 22. Does the FMAg/S identify whether agreement or statement? 23. Does the FMAg/S identify whether covered by the agreement or statement or statement. Point of Compliance for Farm Management agreement or the agreement? Management and operation	s by which the area or individual farm will be fallow ocked? one or more year classes may be stocked onto subroodstock or potential broodstock are to be keptot? gement Agreements Only ment include arrangements for persons to become	ow and the earliest sites covered by the ot on any site me, or cease to be,
20. What is the version no/date of issue	e of the FiviAg/5?	

Case No: 2021-0336 Date of visit: 06/10/2021 Site No: FS1260 Inspector: **Results Summary** Freq. **Date of Notification** 2nd Insp Database Insp Writing Insp Phone Insp 05/11/2021 INH PCR 12/10/2021 13/10/2021 0/1 0/1 13/10/2021 VHS PCR 12/10/2021 05/11/2021 13/10/2021 **ISA PCR** 0/1 12/10/2021 05/11/2021 SAV PCR 05/11/2021 0/1 12/10/2021 13/10/2021 IPN PCR 0/1 12/10/2021 13/10/2021 05/11/2021 13/10/2021 AGD PCR 5/5 13/10/2021 05/11/2021 05/11/2021 Sal Pox PCR 4/5 13/10/2021 13/10/2021 4/5 Para Theridion PCR 13/10/2021 05/11/2021 13/10/2021 21/10/2021 Vibrio sp. 5/5 27/10/2021 05/11/2021 27/10/2021 Amoebic gill disease 3/5 27/10/2021 histo 05/11/2021 27/10/2021 27/10/2021 05/11/2021 Gill pathology 5/5 **Epitheliocystis** 1/5 27/10/2021 27/10/2021 05/11/2021 1/5 27/10/2021 27/10/2021 05/11/2021 Adhesions Heart pathology 1/5 27/10/2021 27/10/2021 05/11/2021 27/10/2021 05/11/2021 Complex gill disease 5/5 27/10/2021 Liver pathology 27/10/2021 27/10/2021 05/11/2021 Report Summary 2nd Insp Date Case Type Insp ECI, CNI, SLI, VMD 13/10/2021 DIAG 05/11/2021





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business NoFB0398Date of Visit06/10/2021Site NoFS1260Site NameSound of Harris

Case No 20210336 Inspector

Section 1: Summary

The site was visited following continued reports of elevated mortality levels. During inspection a number of lethargic fish were observed and five fish were removed for further examination and subsequent diagnostic sampling.

Histopathology examination revealed mild multifactorial proliferative gill pathology and evidence of amoebic gill disease (AGD) and epitheliocystis. The samples tested positive to *Neoparamoeba perurans*, confirming the AGD presence. Mild hepatic necrosis was observed in fish 2, as well as chronic splenitis in fish 1.

Due to gill health issues observed on site, samples were also screened for *Paranucleospora* theridion (syn, *Desmozoon lepeophtherii*). Samples tested positive for this pathogen. In addition, four fish tested positive for salmon gill poxvirus.

A *Vibrio sp.* was isolated from all five fish, however the level of purity and growth would not suggest that this bacterium was implicated as a primary pathogen in fish morbidity.

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

Section 2: Case Detail

Observations

The site was inspected following continued reports of elevated mortality levels and to carry out a routine inspection. Increased mortalities has been attributed to gill health issues and AGD.

Lethargic fish were seen in all pens. Five fish were removed from pen 11 for diagnostic sampling, as this pen had the highest overall mortality and number of observed moribunds during the inspection.

All fish sampled were moribund and lethargic. All gills were found to have a ragged appearance with white plague observed as well. Fish 1 and 4 had haemorrhaging on the belly.

Internally, adhesions were present in all fish. Fish 1 noted to have a spleen with a rough appearance.

Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
1,2,3,4,5	1	11	Atlantic salmon	2020 S1 5.57kg	Clachbreac (FS0892)

Results

Bacteriology: Kidney and gill material from four fish were inoculated onto appropriate media for the isolation of bacteria.

The following bacterium was isolated:

- Vibrio sp.
 - 5/5 fish (Gill)

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

Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value		Cp Value	Reported Result (PCR)	
F1	18.98	29.26	29.14	29.09	POSITIVE
F2	19.41	25.57	25.66	25.67	POSITIVE
F3	20.23	31.28	31.27	31.19	POSITIVE
F4	18.98	28.73	28.63	28.99	POSITIVE
F5					NEGATIVE

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

Parasitology:

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

Neoparamoeba perurans (AGD)

Fish Number	Endogenous control Cp value		Cp Values	Reported Result (PCR)			
F1	18.98	28.85	28.70	28.90	POSITIVE		
F2	19.41	27.17	27.40	27.04	POSITIVE		
F3	20.23	30.59	30.27	30.50	POSITIVE		
F4	18.98	27.10	26.92	27.15	POSITIVE		
F5	20.38	34.20	34.03	33.99	POSITIVE		

Paranucleospora theridion

Fish Number	Endogenous control Cp value		Cp Values	Reported Result (PCR)			
F1	18.98	33.69	33.35	34.01	POSITIVE		
F2	19.41	32.38	32.38	32.83	POSITIVE		
F3					NEGATIVE		
F4	18.98	31.45	30.38	31.59	POSITIVE		
F5	20.38	36.84	37.05	37.94	POSITIVE		

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

Histopathological examination revealed the following:

Gill: Very minimal to mild multifocal hyperplasia and lamellar fusion, some lacunae (some filled with cell debris) observed on the hyperplastic plaques (F1-F5) and some cell debris among gill filaments. F4 also displayed spongiosis features. Some amoeboid cells resembling Neoparamoeba peruans (F1, F3-F4) and few basophilic epithelial inclusions (likely epitheliocystis) (F1) were observed. Several aneurysmal dilation observed in all fish.

Skin & Muscle: Within normal range.

Heart: Very small foci of inflammatory cell infiltration (F1), mainly mononuclear cells.

Gut and pyloric caeca: Some fibrous adhesions observed in F3 (potentially associated with vaccine administration).

Pancreas: Within normal range.

Liver: Moderate multifocal hepatic necrosis (F2), very mild diffuse hepatocyte vacuolation (F3).

Kidney: Some scattered glomeruli appeared slight and shrunken (F2).

Spleen: F1 displayed chronic inflammation with fusion of epithelioid cells (macrophages) containing nuclei arranged in a horseshoe-shaped pattern in the cell periphery (multinucleated giant cells). Slightly congested (F4 & F5).



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/

Date: 05/11/2021

R09

Signed:





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0398 Date of Visit 06/10/2021
Site No FS1260 Site Name Sound of Harris

Case No 20210336 Inspector

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

Samples were taken for diagnostic purposes. A separate report will be issued detailing the results of these tests.

Records

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

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

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

Mortality records were inspected and found to be adequately maintained.

Mortality levels had exceeded the reporting criteria since the last inspection and had been reported to the Fish Health Inspectorate as required.

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

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

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory with regards to 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.



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/



 $Figure\ 1\ Spleen\ with\ tongue-like\ texture\ (Fish\ 1)$



Figure 2 Pale Liver from Fish 2



Figure 3 Pale ventricle on thr right from fish 2. Left heart from Fish 1



Figure 4 From top-fish 1 and fish 2



Figure 5 From top-fish 3 and fish 4

FHI 059, Version 13	I	ssued by: FHI	Date of issue: 12/05/2020			
Case No: 2021-0365			Date of visit: 05/10/2021			
Time spent on site:	3.5h	Main Inspec	etor:			
Site No: FS0645	Site Name:	Kirk Noust				
Business No: FB0095	Business Name:	Cooke Aquaculture Scotland	Ltd			
Case Types: 1 ECI	2 CNI 3 SLI	4 VMD 5	6			
Water Temp (°C): 12.7	Thermometer No:	Site	FHI 045 completed			
Observations:	Region: OR	Water type: S	CoGP MA O-2			
Dead/weak/abnormally behaving			ormation/clinical score sheet.			
Clinical signs of disease observe	ed?	N If yes, see additional information/clinical score sheet.				
Gross pathology observed? Diagnostic samples taken?		N If yes, see additional info	ormation/clinical score sheet.			
2 tag: 100 ta 10		<u></u>				
UNI/REG only - if unable to carr	y out intended visit detail	reason below:				

Additional Case Information:

Case paperwork submitted on the 27/9/21 and inspected on 28/9/21 site inspected on the 5/10/21 accompanied by

Additional peaks in mortality: 2021, Wk. 29 1904 (0.75%), Wk. 30 1866 (0.74%), Wk. 31 1277 (0.51%) Wk. 32 1769 (0.71%) attributed to jellyfish/environmental.

FHI thermometer left ashore, therefore site thermometer used, temperature well below 14.

Leps reported to be on the increase in Orkney, some jellyfish issues recently.

Seal pro nets installed reported to be very effective.

Site is used a nursery site so no harvests occur.

One dead fish observed. Some jellyfish observed in a couple of pens.

FHI 059, Version 13			Issued by: FHI	_		Date of issue	: 12/05/2020
Case No: 20	21-0365	Site No	p: FS064	5			
Date of Visit:	С	5/10/2021		Inspector(s):			
Registration/Authorisa	ation Details						
1. Business/site details	summary che	ecked by site repre	esentative?			Υ	
2. Changes made to de	tails?					N	
Site Details (include cl	leaner fish fo	or all sections)					
Total No facilities	6		es stocked	6	No facilities	s inspected	ô
Species SA	L						
Age group 202	21 S1						
No Fish 24	4,307						
Mean Fish Wt 979	9g						
Next Fallow Date (Site)	Fe	bruary 2022	Next Input D	ate (Site)	April 2022		
Recent (last 4 wks) dise	ase problem	s?		Y Any escapes	(since last v	visit)?	N
If yes, detail:	D, Paramov	e treatment admi	nistered, good trea	tment reported			
 Movement records av Date of last inspection Are records complete Are movement record Are records complete Are records complete Are health certificates Transport Records Are any movements of If yes, is there a system 	n: e and correctl ds available for e and correctl s for introduct carried out by	y entered? or dead fish and w y entered? ions (outwith GB) (or on behalf) of t	available? the business (not u			13/11/2019	Y Y Y N/A
Mortality Records							
Mortality records avai	•	ection?		01			Y
2. How are mortalities d If other detail:		. 16 16 (Other (detail)		
3. Mortality records com		/ animal feed facto	ory				Y
4. Recent mortality (last	•		1 742 (0 200/) \///	25 507 (0 240/	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(0.040/) \\\\\\	-
5. Evidence of recent in	,		713 (0.29%) Wk.	35 597 (0.24%)), VVK. 30 96	(U.U4%), VVK.	37 755 N
If yes, facility nos/no mo	• •		acility/reason:			L	11
ii yes, lacility 1105/110 1110	ntanty per lac	mity/110 Stock per 1	aciiity/reasori.				
6. Any other peaks in m	ortality during	neriod checked?					Y
	e additional c	_					
7. Have increased (une			rted to vet or FHI?				N/A
If yes, detail action:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	The state of the political of the politi					
8. Have 'mortality events	s' been repor	ted to FHI? If no, e	enter details on mo	rtality events s	heet.		N/A

Treatments and Medicines Records		
Recent treatments (see comment)?		Y
H2O2,		
If yes, detail: T.M.S.		
If other, detail:		
Medicines records available for inspection?		Y
3. Are records complete and correctly entered?		У
4. Are fish in a withdrawal period?		Y
	T.M.S.	
If other, detail:		
6. Are medicines stored appropriately?		Y
Biosecurity Records		V
Biosecurity records available for inspection? Has the manner and frequency of mortality removal, recording	ing and acts disposal been considered?	V
2. Has the manner and period in which the APR will notify Seed		У
3. Has the manner and period in which the APB will notify Scotincreased (unexplained) mortality at the site been included?	ittish iviinisters or veterinary professional of any	Y
4. Has the action that will be taken in the event that the present	nee or cuspicion of the presence of a listed disease	·
is detected been included and how and when that will be notif		Y
5. Has the health status of aquaculture animals being stocked		Y
health status, certification if required)?	on the familiate been dovered (equal or higher	
Trouble Status, Solution and State S		
6. Have the husbandry and biosecurity measures implemented	d between each epidemiological unit to minimise	Y
transmission of disease been covered (movement of staff, visi		
7. Is documentation available regarding the measures in place		Y
aquaculture animals held on site?		
8. Have the biosecurity procedures been adequately implement	nted on site?	Y
If no, detail:		
Results of Surveillance		
1. Has any animal health surveillance been carried out by, or o	on behalf of, the business?	Y
2. If yes, are results available for inspection?		Y
3. Any significant results?		IN
If yes, detail (if not detailed under recent disease problems).		
Passarda shooked hotuson:	40/44/2040 ÷- 40/0/2024	
Records checked between: 1	13/11/2019 to 19/9/2021	

Time s starts/ Enviro	ty samples: sampling		00:00	Site No:		FS0645 PA			Date of vi Sampling		05/1	10/2021	
Time s starts/ Enviro	sampling /ends:		00:00			PA		_					
starts/ Enviro	/ends:		00:00	15:0									
	onmental conditions	. 4			0:00		Inspecto	r:			VMD No). [20
Summ		: 1	Dry	2	Windy	3	Cloudy	4		5		•	
	mary samples	HIST		ВА		MG		VI		PA		Total Sa	mples
	h/Pools - click												
	Fish No			•	4	-							
Fish n		1	2	3	4	5							
Pool G													
Specie		SAL	SAL	SAL		SAL							
	ige weight	1kg	1kg	1kg	800g	800g							
Sex		0111	0)1/	0144	0)4/	0111							
Water	r Туре	SW	SW	SW	SW	SW							
Stock Details Aports Aports Aports Stock Details		Yetts o Muckart											

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

FHI 059, Version 13		Issued by: FHI			Date o	Date of issue: 12/05/2		
Case Number:	2021-0365		Site No:	FS0645		Insp:		
Date of Visit	05/10/2021		No of m	ovements/s	supp./dest.		Score	
Live fish movements			0	1-5	6-10	>10		
Movements on (from out	Frequency of m	novements on from equivalent MS	0	5	10	14	0	
with GB) of susceptible species		novements on from equivalent zone or	0	9	18	26	0	
·	Number of sup	ncluding third country pliers	0			14	0	
Movements off	Frequency of m	povements off	0	3	6	10	6	
Movemente on	Number of des		0		6	10	3	
Exposure via water		Site contacts	0	1-5	6-10			
Water contacts with other farms (holding species	disinfection or l	,	0					
susceptible to same diseases)	farms upstream	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		2	
	farms upstream	or in a coastal zone with category III or within 1 tidal excursion	1	3	6			
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8			
Management practices			None	Secure	Unsecure			
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		1	
On farm processing within the rules of the directive	No on farm pro	•	0				0	
	Processing own	n fish (re-cycling risk)	1					
	Processing fish	from MS of equivalent status	2					
	Processing fish from zone or compartment of equivalent status							
		from Category III farm	8					
	Processing fish	from Category ∀ farm	10					
Disposal of fish and fish by-	Site's own was	te only processed.	0	1				
products	Common proce	esses with other farms	3				3	
	Collection point	t for waste from other farms	5					
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0	i			0	
	Feeding unpas	teurised feed	5					
Biosecurity		Number of sites	1	2 or 3	≥ 4			
Contacts with other sites	Sites operating	from single shorebase	0	1	2		2	
	Sites sharing s	taff and equipment	0	1	2			
Disinfection of equipment between sites, use of	Yes		0				0	
footbaths etc	No		1					
CoGP/Regulator								
Practices in accordance with regulator or industry	Yes		0				0	
code of practice	No		3					
Platform access to cages	Yes		0]			0	
	No		2	1				
					Total		17	
					Rank		MEDIUM	

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0365	Site No:	FS0645
Sea Lice Inspection (Seawater Sites Only)		
Has the site experienced sea lice problems in	the previous 4 years?	N
2. Is the CoGP Farm Management Area (or equiv	•	ear class basis?
Does the site have access to a range of licenc azamethiphos and emamectin benzoate) as well can these be deployed in a reasonable period of	l as access to suitable biological and/or mec	
4. Is there a signed documented farm manageme Management Area (or equivalent)?	ent agreement or statement relevant to the s	ite and CoGP Farm
5. Are sea lice count records available for inspec	tion? (Legal SSI, CoGP Annex 6)	Y
6. Do records adequately reflect the required star	ndard specified in the SSI and the CoGP? (L	egal SSI, CoGP Annex 6)
7. Are sea lice (<i>L. salmonis</i>) record levels below records are inspected? (CoGP Annex 6)	the suggested criteria for treatment in the Co	oGP during the period that Y
8. Have average adult female sea lice (<i>L. salmon</i> 2 or above (from w/b 10/6/19) during the period tl		above (prior to w/b 10/6/19) or N
If yes, have these been reported to the Fish Heal	th Inspectorate? If no, FHI see comment.	N/A
9. Is C. elongatus infestation at a level which is o	considered to cause significant welfare proble	ems? (CoGP 4.3.81, 5.3.50)
10. Have therapeutic treatments been administer suggested criteria for treatment or where <i>C. elon</i> g		
11. Has any other action been taken (where appl	icable)?	N/A
12. Have therapeutic treatments or the actions ta	ken had a significant impact upon the lice le	vels recorded?
13. Are treatments, where conducted, carried out	t in cooperation between participating farms?	? Y
14. Is there a harvesting strategy for the site, who sea lice?	ere fewer populations or part populations are	held without treatment for
15. Is there a site specific written lice manageme scenarios during the escalation of a sea lice infes		actions to deal with recognised Y
16. Do the sea lice levels observed on stocks ref	lect sea lice count data? If no please detail r	easons. Y
Containment Inspection		
1. Has the site experienced equipment damage of	due to predators in the current or previous pr	oduction cycles?
2. Are measures in place to mitigate against the p	predation experienced on site? (Detail below	Υ)
seal pro net sinker tubes top		
nets,		
If other, detail below:		
Have escape incidents or events been experie	enced on or in the vicinity of the site since the	e last FHI inspection?
If Yes proceed with questions 4 – 9. If No skip to	•	
4. Have these been reported to Scottish Ministers		
5. Have these been reported to local DSFB forth		1.17)
6. Have these been reported to the SSPO and lo	· · · · · · · · · · · · · · · · · · ·	
7. Were methods (if any) used to recover escape	ees? If yes give detail	
8. If gill nets were deployed was this action agree Ministers? (Legal, CoGP – 4.4.38, 5.4.18)	ed with local wild fish interests and was perm	ission given by Scottish
9. What action was taken to prevent and minimis	e the risk of further escapes? (Not covered in	n code but could
be considered under satisfactory measures		
10. Is the site inspected as satisfactory with rega		on(s)

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0365	Site No: FS0645	
Date of Visit: 05/10/2021	Inspector:	
Point of Compliance 1. Is the farm under inspection located w	ithin a farm management area?	V
If N, no further questions require comple	_	Ÿ
2. Has a current farm management agree3. Is the current FMAg/S available for instance4. Does the FMAg/S identify the relevant5. Does the FMAg/S identify the fish farm	t farm management area? n site(s) to which it applies? commencement of the agreement or staten	ed? Y y y
Arrangements for Fish Health Manage 8. Does the FMAg/S identify the minimum farm?	e ment m health standards for the stocks to be intro	oduced to the area or y
10. Does the FMAg/S identify the specie	tion requirements for stocks held in the area is of fish which may be stocked into the area num stocking density of any pen on any farn	a or farm?
	ements for the storage and disposal of any m?	dead fish from any
Arrangements for The Management of 13. Does the FMAg/S identify arrangements	f Sea Lice ents for the sharing of data on sea lice num	bers and treatments?
14. Does the FMAg/S identify the available of statement?	oility and the use of medicines on farms cov	vered by the agreement y
15. Does the FMAg/S identify any require lice on farms in the area or individual far	ements for the sensitivity testing of available ms?	e treatments for sea
16. Does the FMAg/S identify the circum used on farms in the area or individual fa	stances under which biological controls and	d cleaner fish are to be
	ements for synchronous treatments on farn	ns within the area?
Live Fish Movements 18. Does the FMAg/S identify the circum area or farm?	stances when live fish may be introduced o	or removed from the
19. Does the FMAg/S identify the arrang or individual farms?	ements for the movement of live fish on an	d off sites in the area

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Harvesting 20. Does the FMAg/S identify acceptable	e harvest practices on farms in the area or indiv	vidual farms?
date when a farm or area may be restood 22. Does the FMAg/S identify whether of agreement or statement?	ne or more year classes may be stocked onto s roodstock or potential broodstock are to be kep	sites covered by the
Point of Compliance for Farm Manage 24. Does the farm management agreem parties to the agreement?	ement Agreements Only nent include arrangements for persons to becon	ne, or cease to be,
Management and operation 25. Is the fish farm being managed and 26. What is the version no/date of issue	operated in accordance with the agreement or softhe FMAg/S? Sep-21	statement?

	0004 0005				05/40/000			
Case No:	2021-0365	J		Date of visit	: 05/10/2021	J		
Site No:	FS0645	1		Inspector				
Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
	+							
	+							
	+							
	+							
	+							
	1							
	+							
	+							
Report Summary								
Case Type	Date	Insp	2 nd Insp					
ECI,CNI,SLI,VMD	12/10/2021							
	+							
	+							
	+							





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0095
 Date of Visit
 05/10/2021

 Site No
 FS0645
 Site Name
 Kirk Noust

Case No 20210365 Inspector

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

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

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

Signed:

Date: 12/10/2021

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/

FHI 059, Version 13	l:	ssued by: FHI	Date of issue: 12/05/2020			
Case No: 2021-0366			Date of visit: 05/10/2021			
Time spent on site:	10m	Main Inspecto	or:			
Site No: FS0122 Business No: FB0095	Site Name: Business Name:	Bay of Ham Cooke Aquaculture Scotland L	_td			
Case Types: 1 REG	2 3	4 5	6			
Water Temp (°C):	Thermometer No:		FHI 045 completed			
Observations:	Region: OR	Water type: S	CoGP MA O-2			
Dead/weak/abnormally behaving fish present? Clinical signs of disease observed? Gross pathology observed? Diagnostic samples taken? If yes, see additional information/clinical score sheet. If yes, see additional information/clinical score sheet.						
UNI/REG only - if unable to carr	y out intended visit detail	reason below:				

Additional Case Information:

Site in long term fallow. Still may be used as a nursery site so continuing to remain active.

Only movement records inspected and a copy taken.

No pens on site but grid is still in place.

Accompanied by ____.

FHI 059, Version 13		Issu	ued by: FHI	_	Date of	issue: 12/05/2020
Case No: 2021	-0366	Site No:	FS0122			
Date of Visit:	05/10/20	021		Inspector(s):		
Registration/Authorisation	on Details					
1. Business/site details sur	mmary checked b	y site represent	ative?		Υ	
Changes made to detail	ls?				N	
Site Details (include clea	ner fish for all s	ections)				
Total No facilities	0	Facilities sto	ocked	0	No facilities inspec	ted 0
Species						
Age group						
No Fish						
Mean Fish Wt						
Next Fallow Date (Site)			Next Input Da	ite (Site)		_
Recent (last 4 wks) diseas	se problems?		N/A	Any escapes	(since last visit)?	N/A
If yes, detail:						
Movement Records						
Movement records avail	lable for inspectio	n2				V
Date of last inspection:	iable for irispectio	11:			29/05/2	0018
Are records complete as	nd correctly enter	ed?			29/03/2	V V
4. Are movement records	•		2			N/A
5. Are records complete a			•			N/A
6. Are health certificates for	•		able?			N/A
	,	,				
Transport Records						
1. Are any movements car						
If yes, is there a system in	place for mainter	nance of transpo	ortation records	?		
Mortality Records						
1. Mortality records availab	ole for inspection?	>				N/A
2. How are mortalities disp	•					
If other detail:						
3. Mortality records comple	ete and correctly	entered?				N/A
4. Recent mortality (last 4	•					
5. Evidence of recent incre	•	rtalities?				N/A
If yes, facility nos/no morta			y/reason:			
C. Americal de la company	- 1	l -l l 12				61/0
6. Any other peaks in mort If yes, detail:	ality during period	з спескей?				N/A
7. Have increased (unexpl	ained) mortalities	been reported t	o vet or FHI?			N/A
If yes, detail action:		p = 1 = 4				
8. Have 'mortality events' l	peen reported to F	HI? If no, enter	details on mort	ality events sl	neet.	N/A

Treatments and Medicines Records	
1. Recent treatments (see comment)?	
If yes, detail:	
If other, detail:	
2. Medicines records available for inspection?	
3. Are records complete and correctly entered?	
4. Are fish in a withdrawal period?	
5. If yes, what treatment(s)?	_
If other, detail:	
6. Are medicines stored appropriately?	
c. The medianes stored appropriately.	
Biosecurity Records	
Biosecurity records available for inspection?	
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any	
increased (unexplained) mortality at the site been included?	
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed dise	ase
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 minimis	е
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	
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: 29/5/2018 to 6/10/2021	

Case No:	2021-0366			Date of visit:	05/10/2021			
Site No:	FS0122	1		Inchester:				
Sile No.	F30122			Inspector:				
Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
Report Summary								
Case Type	Date	Insp	2 nd Insp					
REG	13/10/2021	ПОР	2 11139					





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0095
 Date of Visit
 05/10/2021

 Site No
 FS0122
 Site Name
 Bay of Ham

 Case No
 20210366
 Inspector

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

On this occasion, the site was found to be fallow and has been for a number of years, it was reported that it may be used in the near future therefore, it will remain active on the FHI inspection schedule.

Records

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

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

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

Signed: Date: 13/10/2021
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/FHl/charter