FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0051			Date of visit: 18/05/2021
Time spent on site:	8 Hrs	Main Ins	spector:
Site No: FS0247	Site Name:	Loch Harport	
Business No: FB0119	Business Name:	Mowi Scotland Ltd	
Case Types: 1 ECI	2 CNI 3 SLI	4 VMD 5	6
Water Temp (°C): 10.6	Thermometer No:	T153	FHI 045 completed
Observations:	Region: HI	Water type: S	CoGP MA M-27
Dead/weak/abnormally behaving	•		I information/clinical score sheet.
Clinical signs of disease observ	ed?		l information/clinical score sheet.
Gross pathology observed?		N If yes, see additiona	l information/clinical score sheet.
Diagnostic samples taken?		IN	
UNI/REG only - if unable to carr	y out intended visit detai	il reason below:	

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

Additional Case Information:

Paperwork completed remotely on 14/05/21 by

Site inspection by , shadowed by , VMD sampling by

Site uses Environets, changing approximately every 14 days, with the net hanging out of water, this was reported to be effective at eliminating the requirement for net wash on site although more labour intensive during the changing process. Nets were very clean, visibility very good, approx. 40 lethargic fish across site observed deeper in the water. Site has had CMS, but not losing high numbers.

Site currently undergoing FW treatments, reported to be giving very good clearances, this was clearly observed in cages already treated, where shoaling fish had no visible sea lice. Have two tarps within Loch Harport, but also have access to fresh water tarps further north in Skye maintained by another operator. FW treatments are being administered for 12 hours, so only treating one cage per day.

One fish removed from cage 6, hanging vertically. One fish observed nearer the centre of cage 10 below the surface spiralling.

Fish sampled for VMD appeared in very good condition.

Site stocked with Lumpfish, and both farmed and wild wrasse. Site undertook a trial where three cages were stocked with only wild wrasse, with the remaining 9 being stocked with farmed wrasse (4,440 Ballan (Farmed and Wild) and 4,368 Corkwing Wrasse(Wild)), those stocked with wild wrasse were reported to have had fewer sea lice interventions. Site recently completed their Organic audit and are now operating under the Organic standard.

FHI 059, Version 13		_	Issu	ed by: FHI	_		Date of issue	: 12/05/2020	
Case No:	2021-0051		Site No:	FS0247					
Date of Visit:		18/05/2021]		Inspector(s):				
Registration/Autho	risation Deta	ails							
1. Business/site deta	_	checked by s	site representa	ative?			Υ		
2. Changes made to	details?						Υ		
Site Details (include cleaner fish for all sections)									
Total No facilities	o oroarror rio	14	Facilities sto	cked	12	No facilitie	s inspected	14	
Species	SAL	WRA	LUM				T		
Age group	2020 Q2	Mixed	2020						
No Fish	275,263	8,808	25,655						
Mean Fish Wt	4.558 kg	Mix	Mix						
Next Fallow Date (Si		Nov 2021		Next Input Da	te (Site)	Mar 2022			
Recent (last 4 wks)	•				Any escapes		visit)?	N	
If yes, detail:					,	(
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?					Г	Y	
2. How are mortalitie	s disposed o	f?			Ensiled - on s	site	_		
If other detail:									
3. Mortality records of	complete and	correctly ent	ered?					Y	
4. Recent mortality (last 4 wks):		3,775 for site	e for previous 4	weeks. Betwe	een 163 - 3	95 per cage fo	r previous 4	
5. Evidence of recen	t increased/a	typical morta	lities?					N	
If yes, facility nos/no	mortality per	facility/no sto	ock per facility	/reason:			-		
6. Any other peaks in mortality during period checked?									
If yes, detail: Refer to Mortality Events Spreadsheet for August and September 2019.									
7. Have increased (unexplained) mortalities been reported to vet or FHI?									
If yes, detail action:									
8. Have 'mortality ev	ents' been re	ported to FHI	l? If no, enter	details on mort	ality events sh	eet.		Y	

Treatments and Medicines Records	V
1. Recent treatments (see comment)?	-
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	
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 <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? In the control of the	Y
If no, detail:	
ii iio, detaii.	
Results of Surveillance	
Has any animal health surveillance been carried out by, or on behalf of, the business?	V
2. If yes, are results available for inspection?	N/A
3. Any significant results?	IV/A
If yes, detail (if not detailed under recent disease problems).	
Records checked between: 01/06/18 to 14/05/21	
Records checked between.	

FILI 009, VEISIOII 13						issued by. Fill						
	Case no:	2021-00	051	Site No:		FS0247			Date of visit/ Sampling:	18/	05/2021	18/0
	Priority samples:	VI		ВА		PA		мб	Sampling.	н]	
	Time sampling starts/ends:		0:00		0:00		Inspecto	or:		VMD N	0.	24
	Environmental conditions:	1	Sunny	2	Dry	3		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	4							
	Pool Group											
	Species	SAL	SAL	SAL	SAL							
	Average weight	4 kg	4 kg	4 kg	4 kg							
	Sex											
	Water Type	SW	SW	SW	SW							
Stock Details	Stock Origin	Loch Arkaig	Loch Arkaig	Fanad	Fanad							
S	Facility No	6	1	10	12							

05/2021	05/2021 Additional Sample Information:												
0	0 Total Tests assigned 0												

FHI 059, Version 13		Issued by: FHI			Date o	of issue	: 12/05/2020
Case Number:	2021-0051		Site No:	FS0247		Insp:	
Date of Visit	18/05/2021		No of m	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out with GB) of susceptible		novements on from equivalent MS	0	5	10	14	5
species		novements on from equivalent zone or including third country	0	9	18	26	0
	Number of sup		0		10	14	5
Movements off	Frequency of m	novements off	0	3	6	10	10
	Number of des		0	3	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		1
	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	g plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	0				0
	Processing own	n fish (re-cycling risk)	1				0
	Processing fish	from MS of equivalent status	2				0
	Processing fish equivalent state	from zone or compartment of us	4				0
		from Category III farm	8				0
	Processing fish	from Category V farm	10				0
Disposal of fish and fish by-	Site's own was	te only processed.	0]			0
products	Common proce	esses with other farms	3				0
	Collection point	t for waste from other farms	5				0
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0	i			0
	Feeding unpas	teurised feed	5				0
Biosecurity		Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		0
	Sites sharing s	taff and equipment	0	1	2		0
Disinfection of equipment	Yes		0				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]			0
	No		2	1			0
					Total Rank		24 MEDIUM

FHI 059, Version 13	Issued by: FHI		Date of issue: 12/05/2020
Case No: 2021-0051]	Site No: FS0247	
Sea Lice Inspection (Seawater Sites Only)			
Has the site experienced sea lice problem			N
2. Is the CoGP Farm Management Area (or e		a single year class bas	is?
3. Does the site have access to a range of lice	•	•	
azamethiphos and emamectin benzoate) as			
4. Is there a signed documented farm management Area (or equivalent)?	gement agreement or statement releva	nt to the site and CoGP	Farm Y
5. Are sea lice count records available for ins	spection? (Legal SSI, CoGP Annex 6)		Y
6. Do records adequately reflect the required	I standard specified in the SSI and the	CoGP? (Legal SSI, Coo	GP Annex 6) Y
7. Are sea lice (<i>L. salmonis</i>) record levels be records are inspected? (CoGP Annex 6)	elow the suggested criteria for treatmer	nt in the CoGP during th	e period that
8. Have average adult female sea lice (L. sai	<i>lmonis</i>) numbers per fish been at a lev	el of 3 or above (prior to	o w/b 10/6/19) or Y
If yes, have these been reported to the Fish	Health Inspectorate? If no, FHI see cor	mment.	Υ
9. Is C. elongatus infestation at a level which	•	•	
10. Have therapeutic treatments been admin suggested criteria for treatment or where <i>C.</i>			
11. Has any other action been taken (where	applicable)?		Y
12. Have therapeutic treatments or the action	ns taken had a significant impact upon	the lice levels recorded	? Y
13. Are treatments, where conducted, carried	d out in cooperation between participat	ing farms?	N/A
14. Is there a harvesting strategy for the site,	, where fewer populations or part popul	lations are held without	treatment for Y
15. Is there a site specific written lice manag	ement procedure with waypoints descr	ibing set actions to dea	I with recognised Y
16. Do the sea lice levels observed on stocks	s reflect sea lice count data? If no plea	se detail reasons.	Υ
Containment Increasion			
Containment Inspection 1. Has the site experienced equipment dama	age due to predators in the current or p	vervious production cycle	es?
Are measures in place to mitigate against		•	× ×
Top net, tensioned nets	the predation experienced on site: (De	stall below)	
If other, detail below:			
3. Have escape incidents or events been ex	perienced on or in the vicinity of the sit	te since the last FHI ins	pection? N
If Yes proceed with questions 4 – 9. If No ski	ip to question 10		
4. Have these been reported to Scottish Mini	isters?		
5. Have these been reported to local DSFB f	orthwith (where they exist)? (CoGP - 4	4.4.37, 5.4.17)	
6. Have these been reported to the SSPO ar	nd local fisheries trusts forthwith (where	they exist)? (CoGP - 4	1.4.37, 5.4.17)
7. Were methods (if any) used to recover esc	capees? If yes give detail		
8. If gill nets were deployed was this action a Ministers? (Legal, CoGP – 4.4.38, 5.4.18)	igreed with local wild fish interests and	was permission given b	by Scottish
9. What action was taken to prevent and min	nimise the risk of further escapes? (Not	covered in code but co	uld
be considered under satisfactory measurements	ires of the Act)		
10. Is the site inspected as satisfactory with	regards to containment? If no, please o	detail reason(s)	Y

FHI 059, Version 13		Issued by: FHI	Da	ate of issue: 12/05/2020
Case No: 2021-0051	Site No:	FS0247		
Date of Visit: 18/05/	2021 lı	nspector:		
Point of Compliance	stad within a famo			
 Is the farm under inspection local If N, no further questions require continuous 		management area?		Y
Try, no rarater questions require of	ompiedom.			
Points of Compliance for Both F 2. Has a current farm managemen 3. Is the current FMAg/S available 4. Does the FMAg/S identify the re 5. Does the FMAg/S identify the fis 6. Does the FMAg/S identify the da 7. Does the FMAg/S identify the da	t agreement or sta for inspection? levant farm manag h farm site(s) to w te of commencem	atement (FMAg/S) been po gement area? vhich it applies?	repared?	Y Y Y Y Y
Arrangements for Fish Health Ma 8. Does the FMAg/S identify the mi farm?		ndards for the stocks to be	e introduced to the area o	r Y
 Does the FMAg/S identify the va Does the FMAg/S identify the s Does the FMAg/S identify the n individual farm? 	pecies of fish which	ch may be stocked into the	e area or farm?	Y Y Y
12. Does the FMAg/S identify the a fish farm in the area or the individu		he storage and disposal o	f any dead fish from any	Y
Arrangements for The Managem 13. Does the FMAg/S identify arrar		sharing of data on sea lice	numbers and treatments	? Y
14. Does the FMAg/S identify the a of statement?	vailability and the	use of medicines on farm	s covered by the agreem	ent Y
15. Does the FMAg/S identify any rlice on farms in the area or individu		he sensitivity testing of ava	ailable treatments for sea	Y
16. Does the FMAg/S identify the cused on farms in the area or individ		ler which biological control	ls and cleaner fish are to	be Y
17. Does the FMAg/S identify the a		synchronous treatments or	n farms within the area?	Y
Live Fish Movements 18. Does the FMAg/S identify the carea or farm?	ircumstances whe	en live fish may be introdu	ced or removed from the	Y
19. Does the FMAg/S identify the a or individual farms?	rrangements for t	he movement of live fish o	on and off sites in the area	Y

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 ind	lividual farms?
date when a farm or area may be restoo 22. Does the FMAg/S identify whether o agreement or statement?	ne or more year classes may be stocked onto	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 become	ome, 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	operated in accordance with the agreement o of the FMAg/S? 01/04/2020	r statement?

Site No: FS0247

Case No: 2021-0051

Nature of non-compliance:

Action taken (FHI):

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

Case No:	2021-0051			Data of visit:	18/05/2021			
Case No.	2021-0031	ı		Date of visit.	. 10/03/2021	J		
Site No:	FS0247]		Inspector:				
Results Summary	Freq.			Da	te of Notifica	ition		
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
	+							
	1							
	+							
Report Summary								
Case Type	Date	Insp	2 nd Insp					
ECI, CNI, SLI, VMD	26/05/2021							





SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0119 DATE OF VISIT 18/05/2021
SITE NO FS0247 SITE NAME Loch Harport
CASE NO 20210051 INSPECTORS

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

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

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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:

charter/

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: 26/05/21

FHI 059, Version 13	Iss	ued by: FHI	Date of issue: 12/05/2020					
Case No: 2021-0055			Date of visit: 20/05/2021					
Time spent on site:	hrs	Main Inspect	or:					
Site No: FS1338	Site Name:	Scalpay						
Business No: FB0119	Business Name:	Mowi Scotland Ltd						
Case Types: 1 ECI	2 CNI 3 SLI	4 VMD 5	6					
Water Temp (°C): 9.9	Thermometer No:	T153	FHI 045 completed					
Observations:	Region: HI	Water type: S	CoGP MA M-28					
Dead/weak/abnormally behaving	fish present?	Y If yes, see additional info	rmation/clinical score sheet.					
Clinical signs of disease observe	d?		ormation/clinical score sheet.					
Gross pathology observed?		N If yes, see additional info	rmation/clinical score sheet.					
Diagnostic samples taken?		N						
UNI/REG only - if unable to carry	UNI/REG only - if unable to carry out intended visit detail reason below:							

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

Additional Case Information:

Paperwork conducted remotely 13/05/21 by _____, observed by ____. Site inspection by _____, shadowed by _____. VMD sampling by _____.

Site is very exposed, especially from northerly. A lot of movement reportedly goes through the site.

2 fish sampled for VMD, both appeared healthy, site is due to undergo freshwater treatments as sea lice numbers have increased. Site has been harvesting, with the pens worst affected by CMS being targeted) and were thinning down cages during the site inspection using the Inter Caledonia.

Site manager reported that the seal pro nets have been very effective mitigation measure against seal predation, with no seal damage noted on any fish (incl mortalities) since input.

Fish were sitting deeper in the water and visibility was poor at time of inspection.

10-15 mortalities observed across site at time of inspection, these were to be removed, a team was working round the pens, but there were multiple operations on-going including net washing.

One pen unable to inspect fully due to net washing operations and one pen where wellboat operations were on-going where the fish were being crowded to be split to an empty pen.

FHI 059, Version 13			Issu	ued by: FHI	Date of issue	e: 12/05/2020		
Case No:	2021-0055]	Site No:	FS1338				
Date of Visit:		20/05/202	1		Inspector(s):			
Registration/Autho								
1. Business/site deta	_	checked by	site represent	ative?			Υ	
2. Changes made to	details?						Y	
Site Details (includ	e cleaner fis	h for all sec	tions)					
Total No facilities		12	Facilities sto	ocked	10	No facilitie	s inspected	12
Species	SAL	LUM	WRA					
Age group	2020 Q1	2020	Wild					
No Fish	~400,000	~35,000	~19,000					
Mean Fish Wt	4.6 kg	Mixed	Mixed					
Next Fallow Date (S		August 202		Next Input Da	te (Site)	Feb 2020	•	
Recent (last 4 wks)	*			_	Any escapes	(since last	visit)?	N
If yes, detail:					, ,	<u> </u>	,	
 Are records comp Are movement red Are records comp Are health certification Transport Records Are any movement If yes, is there a system 	cords availab lete and corr ates for introd nts carried ou	ole for dead fi ectly entered ductions (out at by (or on be	ish and waste' !? with GB) avail ehalf) of the b	able? usiness (not usi				Y Y N/A
Mortality Records								
1. Mortality records a	available for i	nspection?						Y
2. How are mortalitie	es disposed d	of?			Ensiled - on s	site		
If other detail:								
3. Mortality records of	complete and	correctly en	tered?					Y
4. Recent mortality (last 4 wks):		WK 19 - 32	7 for site, attribเ	uted to CMS, V	VK 18 - 2,0	67 attributed t	o CMS, WK
5. Evidence of recen	nt increased/a	atypical morta		·	,	,		N
If yes, facility nos/no		• •		//reason:				
6. Any other peaks in mortality during period checked?								N
If yes, detail:								
7. Have increased (unexplained) mortalities been reported to vet or FHI?								N/A
If yes, detail action:								
8. Have 'mortality ev	ents' been re	ported to FH	II? If no, enter	details on mort	ality events sh	eet.		Y

Treatments and Medicines Records	V
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	
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?	
8. Have the biosecurity procedures been adequately implemented on site?	Y
If no, detail:	
Results of Surveillance	
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	Y
2. If yes, are results available for inspection?	Y
3. Any significant results?	N
If yes, detail (if not detailed under recent disease problems).	
Records checked between: Input (1st cycle) to 13/05/21	

ы	FHI 059, Version 13						issued by: FHI						
	Case no:	2021-00)55	Site No:		FS1338			Date of vi		20/0	05/2021	20/0
	Priority samples:	VI		ВА		PA		MG		HI			
	Time sampling starts/ends: Environmental conditions:		0:00 Cloudy		0:00 Sunny	3	Inspecto Calm	or: 4		5	VMD No	p. [19
	Summary samples	HIST		ВА		MG		VI		PA		Total Sa	mples
A	dd Fish/Pools - click												
	Pool/Fish No												
	Fish nos	1	2										
	Pool Group												
	Species	SAL	SAL										
	Average weight	5 kg	5 kg										
	Sex												
	Water Type	SW	SW										
Stock Details		Sconser Quarry	O Sconser Quarry										
S	I dollity 140	9	10										

D5/2021 Additional Sample Information:														
0	0 Total Tests assigned 0													

FHI 059, Version 13		Issued by: FHI			Date o	t issue	: 12/05/2020	
Case Number:	2021-0055		Site No:	FS1338	I	Insp:		
Date of Visit	20/05/2021		No of m	ovements/s	supp./dest.	p./dest.		
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			14	0	
Movements off	Frequency of n	novements off	I 0	3	6	10	10	
	Number of des		0		6	10	3	
Exposure via water		Site contacts	0	1-5	6-10			
Water contacts with other farms (holding species	disinfection or l	•	0				0	
susceptible to same diseases)	farms upstrean	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		1	
	farms upstrean	or in a coastal zone with category III 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		0	
On farm processing within the rules of the directive	No on farm pro	cessing	0				0	
and raids of the anddays	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	8						
	Processing fish	from Category V farm	10					
Disposal of fish and fish by-	Site's own was	te only processed.	0	1			0	
products	Common proce	esses with other farms	3	1			0	
	Collection poin	t for waste from other farms	5				0	
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0	i			0	
·	Feeding unpas	•	5				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 s	taff and equipment	0	1	2			
Disinfection of equipment	Yes		0				0	
between sites, use of footbaths etc	No		1					
CoGP/Regulator								
Practices in accordance with regulator or industry	Yes		0				0	
code of practice	No		3					
Platform access to cages	Yes		0]			0	
	No		2					
					Total Rank		16 MEDIUM	

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021	-0055 Site No	: FS1338
Sea Lice Inspection (Seawar	er Sites Only)	
1. Has the site experienced se	ea lice problems in the previous 4 years?	N/A
2. Is the CoGP Farm Manager	ment Area (or equivalent) fallowed synchronously on a single	e year class basis?
	to a range of licenced in-feed and bath sea lice medications (benzoate) as well as access to suitable biological and/or m	
4. Is there a signed document Management Area (or equival	ed farm management agreement or statement relevant to the ent)?	e site and CoGP Farm
5. Are sea lice count records a	available for inspection? (Legal SSI, CoGP Annex 6)	Y
	ect the required standard specified in the SSI and the CoGP?	(Legal SSI, CoGP Annex 6)
7. Are sea lice (<i>L. salmonis</i>) r records are inspected? (CoG	ecord levels below the suggested criteria for treatment in the P Annex 6)	CoGP during the period that
8. Have average adult female	sea lice (L. salmonis) numbers per fish been at a level of 3 of	or above (prior to w/b 10/6/19) or Y
If yes, have these been report	ed to the Fish Health Inspectorate? If no, FHI see comment.	Υ
9. Is C. elongatus infestation	at a level which is considered to cause significant welfare pro	oblems? (CoGP 4.3.81, 5.3.50) N
•	nts been administered or other actions taken when <i>L. salmon</i> nt or where <i>C. elongatus</i> is considered to have welfare implic	
11. Has any other action been	taken (where applicable)?	Y
12. Have therapeutic treatmen	its or the actions taken had a significant impact upon the lice	levels recorded?
13. Are treatments, where cor	ducted, carried out in cooperation between participating farm	ns?
14. Is there a harvesting strate	egy for the site, where fewer populations or part populations a	are held without treatment for Y
15. Is there a site specific writ	ten lice management procedure with waypoints describing se	et actions to deal with recognised Y
16. Do the sea lice levels obse	erved on stocks reflect sea lice count data? If no please deta	il reasons.
Containment Inspection		
•	quipment damage due to predators in the current or previous	production cycles?
	itigate against the predation experienced on site? (Detail bel	
Top Nets, tensioned nets, S		
If other, detail below:	real Florida,	
3. Have escape incidents or e	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 t	o Scottish Ministers?	
5. Have these been reported t	o local DSFB forthwith (where they exist)? (CoGP - 4.4.37,	5.4.17)
6. Have these been reported t	o the SSPO and local fisheries trusts forthwith (where they e.	xist)? (CoGP – 4.4.37, 5.4.17)
7. Were methods (if any) used	I to recover escapees? If yes give detail	
8. If gill nets were deployed with Ministers? (Legal, CoGP – 4.4	as this action agreed with local wild fish interests and was pe .38, 5.4.18)	rmission given by Scottish
9. What action was taken to p	revent and minimise the risk of further escapes? (Not covere	d in code but could
be considered under satisf	actory measures of the Act)	
10. Is the site inspected as sa	tisfactory with regards to containment? If no, please detail re	ason(s) Y

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0055	Site No: FS1338	
Date of Visit: 20/05/2021	Inspector:	
Point of Compliance	ithin a form management area?	V.
 Is the farm under inspection located w If N, no further questions require comple 		Υ
 Has a current farm management agre Is the current FMAg/S available for ins Does the FMAg/S identify the relevant Does the FMAg/S identify the fish farm 	farm management area? n site(s) to which it applies? commencement of the agreement or statem	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 maxim individual farm?	m health standards for the stocks to be intro- tion requirements for stocks held in the area s 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 numb	bers and treatments?
14. Does the FMAg/S identify the available of statement?	oility and the use of medicines on farms cov	ered by the agreement
	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?	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?	chiefle for the movement of live fish off and	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 acceptable	e harvest practices on farms in the area or inc	dividual farms?
date when a farm or area may be restoo 22. Does the FMAg/S identify whether o agreement or statement?	ne or more year classes may be stocked onto	o 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 bec	ome, 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	operated in accordance with the agreement of the FMAg/S? 30/12/2019	or statement?

Site No: FS1338

Case No: 2021-0055

Nature of non-compliance:

Action taken (FHI):

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

Case No:	2024 0055			D-46-:i4-	20/05/2024						
Case No.	2021-0055			Date of visit	20/05/2021	J					
Site No:	FS1338	l		Inspector:		l					
Results Summary	Freq.			Da	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	26/05/2021										
	1										





SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 FB0119
 DATE OF VISIT
 20/05/2021

 SITE NO
 FS1338
 SITE NAME
 Scalpay

 CASE NO
 20210055
 INSPECTORS

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 / inadequately 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.

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

Signed: Date: 26/05/21

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	Iss	ued by: FHI	Date of issue: 12/05/2020					
Case No: 2021-0081			Date of visit: 24/05/2021					
Time spent on site:	hour	Main Inspecto	or:					
Site No: SS0354 Business No: SB0525	Site Name: Business Name:	Kyle of Tongue Oysters Kyle of Tongue Oysters Ltd						
Case Types: 1 MOV	2 3	4 5	6					
Water Temp (°C):	Thermometer No:		FHI 045 completed					
Observations:	Region: HI	Water type: S	CoGP MA:					
Dead/weak/abnormally behaving fish present? Clinical signs of disease observed? Gross pathology observed? Diagnostic samples taken? If yes, see additional information/clinical score sheet. N If yes, see additional information/clinical score sheet. N If yes, see additional information/clinical score sheet. N UNI/REG only - if unable to carry out intended visit detail reason below:								

Additional Case Information:

 \sim 7500/15000. Site stocked with: 2,000,000 2018 CGI @ 80g, 1,600,000 2019 CGI @ 25g, 1,600,000 2020 CGI @ 12.5g, 40 bags \sim 2013 OED @ \sim 50g.

Export of live pacific oysters for France -22 pallets - 550,000 - 22000kg - full load. Going via Calais. Details included trailer number, vehicle reg and security tag provided by lorry driver. Observed in stacks at lorry packing area. Seaweed fouling but oysters looked healthy

Certificate MS/2021/0005 issued

No observed mortalities since last inspection or health surveillance.

Case No:	2021-0081			Date of visit	24/05/2021					
Site No:	SS0354]		Inspector						
Results Summary	Freq.	I		Ds	Date of Notification					
Results Summary	rieq.	Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp		
						9	шор	2 11150		
	+									
	+									
	-									
	+									
Report Summary		Г		1						
Case Type	Date	Insp	2 nd Insp	1						
MOV	16/06/2021		2 11100							
	+									
	1									





SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No SB0525 Date of Visit 24/05/2021

SITE NO SS0354 SITE NAME Kyle of Tongue Oysters

CASE NO 20210081 INSPECTOR

Inspection for export

The above site was visited and a consignment of Pacific oysters, grower stage, for export to France was inspected. A health certificate was issued which must travel with the consignment to the destination.

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

Date: 16/06/2021

Signed:

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	Is	ssued by: FHI	Date of issue: 12/05/2020					
Case No: 2021-0091			Date of visit: 26/05/2021					
Time spent on site:	hours	Main Inspecto	or:					
Site No: SS0354 Business No: SB0525	Site Name: Business Name:	Kyle of Tongue Oysters Kyle of Tongue Oysters Ltd						
Case Types: 1 MOV 2	3	4 5	6					
Water Temp (°C):	Thermometer No:		FHI 045 completed					
Observations:	Region: HI	Water type: S	CoGP MA:					
Dead/weak/abnormally behaving fish present? Clinical signs of disease observed? Gross pathology observed? Diagnostic samples taken? If yes, see additional information/clinical score sheet. N If yes, see additional information/clinical score sheet. N N N								
UNI/REG only - if unable to carry out intended visit detail reason below:								

Additional Case Information:

Export of live pacific oysters for France -22 pallets - 550,000 - 22000kg - full load times two. Going via Calais. Details included trailer number, vehicle reg and security tag provided by lorry driver. Observed in stacks at lorry packing area and on site inspection of oysters in the trestles. Seaweed fouling but oysters looked healthy

~7500/15000. Site stocked with: 1,500,000 2018 CGI @ 80g, 1,600,000 2019 CGI @ 25g, 1,600,000 2020 CGI @ 12.5g, 40 bags ~2013 OED @ ~50g.

Certificate MS/2021/0006 and MS/2021/0007 issued

No observed mortalities since last inspection or health surveillance.

Case No:	2021-0091			Date of visit	26/05/2021				
0.00 110.	2021 0001			Date of visit.	20/00/2021				
Site No:	SS0354			Inspector:					
Results Summary	Freq.			Date of Notification					
Cammany		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp	
Report Summary]					
Case Type	Date	Insp	2 nd Insp						
MOV	16/06/2021								





SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No SB0525 Date of Visit 26/05/2021

SITE NO SS0354 SITE NAME Kyle of Tongue Oysters

CASE NO 20210091 INSPECTOR

Inspection for export

The above site was visited and two consignments of Pacific oyster, grower stage, for export to France was inspected. A health certificate was issued which must travel with the consignment to the destination.

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

Signed: Date: 16/06/2021

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	Is	sued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0115			Date of visit: 12/05/2021
Time spent on site:	Hours	Main Inspect	or:
Site No: FS1019	Site Name:	Strondoir Bay	
Business No: FB0169	Business Name:	The Scottish Salmon Compar	ny
Case Types: 1 ECI	2 CNI 3 SLI	4 VMD 5	6
Water Temp (°C): 8.6	Thermometer No:	T205	FHI 045 completed N/A
Observations:	Region: ST	Water type: S	CoGP MA M-42
Dead/weak/abnormally behaving			rmation/clinical score sheet.
Clinical signs of disease observe	d?		rmation/clinical score sheet.
Gross pathology observed? Diagnostic samples taken?		N If yes, see additional info	rmation/clinical score sheet.
Diagnostic samples taken:		IN_	
UNI/REG only - if unable to carry	out intended visit detail r	reason below:	

Some increases in mortality, above the 1% mortality threshold. These have been reported to the FHI.

Hydrolicer Treatment is taking place this week due to an increased number of juveniles. Some fish observed with physical damage in cages most recently treated with Hydrolicer. Most fish that were attempted to be removed swam away strongly and very few fish with physical damage in pens not treated/treated previously.

Sea lice figures above CoGP suggested levels for treatment:

30/07/2020 - 1.28 AF 12/03/2020 - 1.01 AF 15/03/2020 - 3.01 AF

Company hydrolicer is now stationed within Loch Fyne and is used whenever lice numbers begin to rise.

VMD fish looked healthy when opened.

Due to Covid-19 paperwork was completed remotely on the 07/05/2021 and a physical inspection of the site took place on the 12/05/2021. Paperwork and inspection completed by some of the site took place on the 12/05/2021.

FHI 059, Version 13	Issued by: FHI		Date of issue: 12/05/2020
Case No:	2021-0115	Site No:	FS1019
Date of Visit:	12/05/202	21	
Registration/Authorisation Details 1. Business/site details summary checked by site repre 2. Changes made to details?	sentative?		
Site Details (include cleaner fish for all sections) Total No facilities Species Age group No Fish Mean Fish Wt Next Fallow Date (Site) Recent (last 4 wks) disease problems? If yes, detail:	10 SAL LUM 19 S0 Mix 183,280 ~2000 6.387 Kg Mix June 2021	Facilities sto	Next Input Dan
Movement Records 1. Movement records available for inspection? 2. Date of last inspection: 3. Are records complete and correctly entered? 4. Are movement records available for dead fish and was 5. Are records complete and correctly entered? 6. Are health certificates for introductions (outwith GB) at a correctly entered? 7. Transport Records 1. Are any movements carried out by (or on behalf) of the lift yes, is there a system in place for maintenance of transport records.	available? he business (not using a STE	3)?	
Mortality Records 1. Mortality records available for inspection? 2. How are mortalities disposed of? If other detail: 3. Mortality records complete and correctly entered? 4. Recent mortality (last 4 wks): 5. Evidence of recent increased/atypical mortalities? If yes, facility nos/no mortality per facility/no stock per facility	acility/reason:	2021 WK15	325 0.18%, 202
6. Any other peaks in mortality during period checked? If yes, detail: 7. Have increased (unexplained) mortalities been repor If yes, detail action: 8. Have 'mortality events' been reported to FHI? If no, e			

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Treatments and Medicines Records 1. Recent treatments (see comment)?		
If yes, detail:	T.M.S.	

1. Recent treatments (see comment)?	
If yes, detail:	T.M.S.
If other, detail:	
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

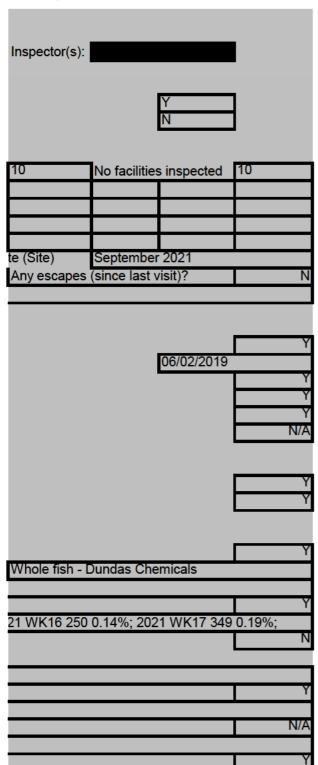
- 1. Biosecurity records available for inspection?
- 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?
- 3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any *incre* site been included?
- 4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is 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 heal
- 6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise trar (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
- 8. Have the biosecurity procedures been adequately implemented on site? If no, detail:

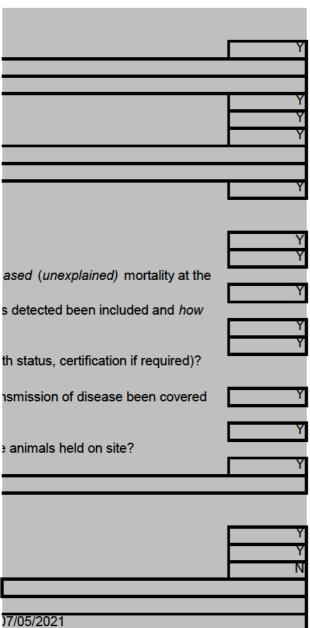
Results of Surveillance

- 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).

ecords checked between:	06/02/2019 -
cool as official settreen.	00,02,20.0





	ni 059, version 15							155	ueu by. r	111			
	Case no:	2021-0°	115	Site No:		FS1019			Date of v		12/0	05/2021	12/(
	Priority samples:	VI		ВА		PA		MG	Samplin	g. HI			
	Time sampling starts/ends:	12:3	80:00	13:3	0:00		Inspecto	or:			VMD No).	19
	Environmental conditions:	1	Indoors	2		3		4		5			
	Summary samples	HIST		ВА		MG		VI		PA		Total Sa	mples
A	dd Fish/Pools - click												
	Pool/Fish No												
	Fish nos	F1	F2										
	Pool Group												
П	Species	SAL	SAL										
	Average weight	6.3 Kg	6.3 Kg										
	Sex	N/A	N/A										
	Water Type	SW	SW										
Stock Details	Stock Origin	Russelburn	Russelburn										
S	Facility No	3	4										

05/2021 Additional Sample Information:									
0 Total Tests assigned 0									

FHI 059, Version 13		Issued by: FHI			Date o	f issue	: 12/05/2020
Case Number:	2021-0115		Site No:	FS1019		Insp:	
Date of Visit	12/05/2021		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	
GP 00.00	Number of sup	ncluding third country	0			14	\vdash
Movements off			0			10	10
Movements off	Frequency of m		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 l	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		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	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 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 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	Ī			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 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				
					Total		23
					Rank		MEDIUM

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0115	Site No:	FS1019
Sea Lice Inspection (Seawater Sites Only)		
Has the site experienced sea lice problems	s in the previous 4 years?	N
	equivalent) fallowed synchronously on a single y	/ear class basis?
3. Does the site have access to a range of lice	enced in-feed and bath sea lice medications (in- well as access to suitable biological and/or med	cluding deltamethrin,
	ement agreement or statement relevant to the s	
5. Are sea lice count records available for ins	pection? (Legal SSI, CoGP Annex 6)	Y
	standard specified in the SSI and the CoGP? (L	Legal SSI, CoGP Annex 6)
7. Are sea lice (<i>L. salmonis</i>) record levels bel records are inspected? (CoGP Annex 6)	low the suggested criteria for treatment in the Co	oGP during the period that
8. Have average adult female sea lice (L. sali	monis) numbers per fish been at a level of 3 or	above (prior to w/b 10/6/19) or Y
If yes, have these been reported to the Fish H		Y
•	is considered to cause significant welfare problem	ems? (CoGP 4.3.81, 5.3.50)
•	stered or other actions taken when <i>L. salmonis</i>	•
· · · · · · · · · · · · · · · · · · ·	elongatus is considered to have welfare implicate	
11. Has any other action been taken (where a	applicable)?	Υ
12. Have therapeutic treatments or the action	s taken had a significant impact upon the lice le	evels recorded?
13. Are treatments, where conducted, carried	lout in cooperation between participating farms?	? Y
14. Is there a harvesting strategy for the site,	where fewer populations or part populations are	e held without treatment for
15. Is there a site specific written lice manage	ement procedure with waypoints describing set a	actions to deal with recognised Y
16. Do the sea lice levels observed on stocks	reflect sea lice count data? If no please detail r	reasons.
Containment Inspection		
•	ge due to predators in the current or previous pr	roduction cycles?
	the predation experienced on site? (Detail below	
ADD Seal Blinds	Tensioned nets Top nets	1
If other, detail below:	Tensioned field Top field	
Have escape incidents or events been exp	perienced on or in the vicinity of the site since th	e last FHI inspection?
If Yes proceed with questions 4 – 9. If No skip	•	
4. Have these been reported to Scottish Minis	•	
·	orthwith (where they exist)? (CoGP - 4.4.37, 5.4	1 17)
·	d local fisheries trusts forthwith (where they exis	
o. Have those poor reported to the ool of and	a room nononoo a aoto rorannan (mnoro ano) exte	
7. Were methods (if any) used to recover esc	apees? If yes give detail	
8. If gill nets were deployed was this action as Ministers? (Legal, CoGP – 4.4.38, 5.4.18)	greed with local wild fish interests and was perm	nission given by Scottish
9. What action was taken to prevent and mini	imise the risk of further escapes? (Not covered i	in code but could
be considered under satisfactory measur	res of the Act)	
•	egards to containment? If no, please detail reas	on(s) Y

FHI 059, Version 13		Issued by: FHI	Date	e of issue: 12/05/2020
Case No: 2021-0115	Site No:	FS1019		
Date of Visit: 12/05	/2021	Inspector:	•	
Point of Compliance	-AI:Al-: E			
 Is the farm under inspection loc If N, no further questions require of 		arm management area?		Υ
Triv, no farther questions require t	ompiction.			
Points of Compliance for Both If 2. Has a current farm managemer 3. Is the current FMAg/S available 4. Does the FMAg/S identify the re 5. Does the FMAg/S identify the fig. 6. Does the FMAg/S identify the d. 7. Does the FMAg/S identify the d.	at agreement or for inspection? elevant farm ma sh farm site(s) to ate of commen	r statement (FMAg/S) been pro? ? anagement area? to which it applies?	epared?	Y Y Y Y Y
Arrangements for Fish Health M 8. Does the FMAg/S identify the m farm?		standards for the stocks to be	introduced to the area or	Y
 Does the FMAg/S identify the value. Does the FMAg/S identify the individual farm? 	species of fish	which may be stocked into the	area or farm?	Y Y Y
12. Does the FMAg/S identify the fish farm in the area or the individ		for the storage and disposal of	any dead fish from any	Y
Arrangements for The Managen 13. Does the FMAg/S identify arra			numbers and treatments?	Y
14. Does the FMAg/S identify the of statement?	availability and	the use of medicines on farms	s covered by the agreemen	t Y
15. Does the FMAg/S identify any lice on farms in the area or individ		or the sensitivity testing of ava	ilable treatments for sea	Y
16. Does the FMAg/S identify the used on farms in the area or indivi		under which biological controls	s and cleaner fish are to be	Y
17. Does the FMAg/S identify the		for synchronous treatments on	farms within the area?	Y
Live Fish Movements 18. Does the FMAg/S identify the area or farm?	circumstances	when live fish may be introduc	ed or removed from the	Y
19. Does the FMAg/S identify the or individual farms?	arrangements f	for the movement of live fish or	n and off sites in the area	Y

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 ind	lividual farms?
date when a farm or area may be restoc 22. Does the FMAg/S identify whether or agreement or statement?	ne or more year classes may be stocked onto roodstock or potential broodstock are to be ke	sites covered by the
Point of Compliance for Farm Manage 24. Does the farm management agreem parties to the agreement?	ement Agreements Only ent include arrangements for persons to beco	ome, 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	operated in accordance with the agreement or of the FMAg/S? 16/09/2019	r statement?

		_				_		
Case No:	2021-0115			Date of visit:	12/05/2021			
Cita Na	EC4040			I				
Site No:	FS1019			Inspector:				
Results Summary	Freq.			Da	te of Notifica	tion		
· · · · · · · · · · · · · · · · · · ·		Database	Insp		Insp	Writing	Insp	2 nd Insp
Report Summary			1					
Case Type	Date	Insp	2 nd Insp					
ECI, SLI, CNI, VMD	25/05/2021	Пор	2 11130					
,,,								





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0169

SITE NO FS1019

SITE NAME Strondoir Bay

Case No 20210115 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 in spected to ensure that the conditions of authorisation for your Aquaculture Production Business (APB) are being met:

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

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

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: 25/05/2021

FHI 059, Version 13	l:	ssued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0118			Date of visit: 13/05/2021
Time spent on site:	Hours	Main Inspec	etor:
Site No: FS0575	Site Name:	Ormsary Smolt Unit	
Business No: FB0061	Business Name:	Landcatch Natural Selection	Ltd
Case Types: 1 ECI	2 CNI 3 MIX	4 5	6
Water Temp (°C): 11.1	Thermometer No:	Site	FHI 045 completed Y
Observations:	Region: ST	Water type: F	CoGP MA
Dead/weak/abnormally behaving	fish present?	N If yes, see additional inf	ormation/clinical score sheet.
Clinical signs of disease observe	ed?		formation/clinical score sheet.
Gross pathology observed?		N If yes, see additional inf	ormation/clinical score sheet.
Diagnostic samples taken?		N	
UNI/REG only - if unable to carry	out intended visit detail	reason below:	

Site thermometer used for biosecurity reasons

Due to ongoing covid-19 situation paperwork was completed remotely on the 19/05/2021 and the physical inspection took place on the 13/05/21. Both were conducted by and observed by

Mortality -

WK18 - 22S0 - 3510 (0.45%), 21S1 2219 (0.06%)

WK17 - 21S0 - 3049 (0.08%)

WK16 - 21S1 - 1232 (0.29%), 21S0 - 3011 (0.08%)

WK15 - 21S1 - 467 (0.11%), 21S0 - 4604 (0.12%)

FHI 059, Version 13			Issu	ed by: FHI			Date of issu	e: 12/05/2020
Case No:	2021-0118		Site No:	FS0575				
Date of Visit:		13/05/2021]		Inspector(s):			ı
Registration/Author	risation Det	ails						
1. Business/site deta	ails summary	checked by	site representa	ative?			N]
2. Changes made to	details?						N]
Site Details (includ	le cleaner fis	h for all sec	tions)					
Total No facilities		109	Facilities sto	cked	64	No facilitie	s inspected	109
Species	SAL	SAL		1			T	
Age group	21 S0	22 S1						
No Fish	3,112,958	2,195,942						
Mean Fish Wt	6g	0.5g						
Next Fallow Date (S		No plans		Next Input Da	ite (Site)	No plans		
Recent (last 4 wks)	•				Any escapes	_	visit)?	N
If yes, detail:						`	,	
 Are records comp Are movement re Are records comp Are health certific Transport Records Are any movement yes, is there a sys 	cords availab plete and corr ates for introd s nts carried ou	le for dead fis ectly entered ductions (out at by (or on be	sh and waste? ? vith GB) availa chalf) of the bu	able? usiness (not usi				N/A N/A N/A
Mortality Records								
1. Mortality records	available for i	nspection?						Y
2. How are mortalitie	es disposed d	of?			Incinerated -	on site		
If other detail:								
3. Mortality records	complete and	correctly ent	ered?					Y
4. Recent mortality ((last 4 wks):		See addition	al information				
5. Evidence of recer	nt increased/a	atypical morta	lities?					N
If yes, facility nos/no	mortality per	facility/no sto	ock per facility	/reason:				
6. Any other peaks i	n mortality du	ıring period c	necked?					N
If yes, detail:								
7. Have increased (unexplained)	mortalities be	en reported to	vet or FHI?				N/A
If yes, detail action:								
8. Have 'mortality ev	ents' been re	ported to FH	? If no, enter	details on mort	tality events sh	eet.		N/A

Treatments and Medicines Re	ecords		
1. Recent treatments (see com			Y
,			
If yes, detail:	T.M.S.		
If other, detail:			
2. Medicines records available f	for inspection?		Y
3. Are records complete and co	orrectly entered?		Y
4. Are fish in a withdrawal perio	od?		Y
5. If yes, what treatment(s)?		Formalin, T.M.S.	
Formalin, T.M.S. If other, detail:			
6. Are medicines stored approp	oriately?		Y
 Biosecurity records available Has the manner and frequen Has the manner and period in increased (unexplained) morta Has the action that will be taken is detected been included and include	ncy of mortality removal, reco in which the APB will notify S ality at the site been included' ken in the event that the pres how and when that will be no aculture animals being stock juired)?	scottish Ministers or veterinary professional of any ? sence or suspicion of the presence of a listed diseas otified to Scottish Ministers? ed on the farm site been covered (equal or higher	e Y
•			Y
7. Is documentation available re	egarding the measures in pla	ace to maintain the physical containment of	Y
aquaculture animals held on site			
8. Have the biosecurity procedu	ures been adequately implen	nented on site?	Y
If no, detail:			
Results of Surveillance			
1. Has any animal health survei	illance been carried out by, o	or on behalf of, the business?	Y
2. If yes, are results available for	•		Y
3. Any significant results?			N
If yes, detail (if not detailed under	ler recent disease problems)		
Records che	ecked between:	25/02/2019 - 19/05/2021	

FHI 059, Version 13		Issued by: FHI			Date o	f issue	: 12/05/2020
Case Number:	2021-0118		Site No:	FS0575		Insp:	
Date of Visit	13/05/2021		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 sup	ncluding third country	0			14	
Movements off	Frequency of m		0	3		10	10
Movements on	Number of des		0		6	10	6
Exposure via water		Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species	Farm is protect disinfection or l	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 n or within 1 tidal excursion	1	3	6		
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	•	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 ∀ 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	Ī			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		1
	Sites sharing s	taff and equipment	0	1	2		1
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	1			0
	No		2	1			
					Total		22
					Rank		MEDIUM

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2021-0118	Site No:	FS0575
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	ent) fallowed synchronously on a single y	/ear class basis?
3. Does the site have access to a range of licenced azamethiphos and emamectin benzoate) as well as		
4. Is there a signed documented farm management Management Area (or equivalent)?	agreement or statement relevant to the s	site and CoGP Farm
5. Are sea lice count records available for inspectio	n? (Legal SSI, CoGP Annex 6)	
6. Do records adequately reflect the required standard	ard specified in the SSI and the CoGP? (L	Legal SSI, CoGP Annex 6)
7. Are sea lice (<i>L. salmonis</i>) record levels below the records are inspected? (CoGP Annex 6)	e suggested criteria for treatment in the C	oGP during the period that
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
If yes, have these been reported to the Fish Health	•	
9. Is C. elongatus infestation at a level which is con	•	lems? (CoGP 4.3.81, 5.3.50)
10. Have therapeutic treatments been administered suggested criteria for treatment or where <i>C. elonga</i> :	or other actions taken when L. salmonis	levels have exceeded the
11. Has any other action been taken (where applica	able)?	
12. Have therapeutic treatments or the actions take		evels recorded?
13. Are treatments, where conducted, carried out in		
14. Is there a harvesting strategy for the site, where		
15. Is there a site specific written lice management		
16. Do the sea lice levels observed on stocks reflect		
	·	
Containment Inspection		
1. Has the site experienced equipment damage due	to predators in the current or previous pr	roduction cycles?
2. Are measures in place to mitigate against the pre	edation experienced on site? (Detail below	v) Y
Ren-to-kil Bird Nets E	lectric Fence	
If other, detail below:		
Tank lids/cover, some tanks inside		
3. Have escape incidents or events been experience	ced on or in the vicinity of the site since th	ne last FHI inspection?
If Yes proceed with questions 4 - 9. If No skip to qu	estion 10	
4. Have these been reported to Scottish Ministers?		
5. Have these been reported to local DSFB forthwith	h (where they exist)? (CoGP - 4.4.37, 5.4	4.17)
6. Have these been reported to the SSPO and local	fisheries trusts forthwith (where they exis	st)? (CoGP – 4.4.37, 5.4.17)
7. Were methods (if any) used to recover escapees	? If yes give detail	
O If will make yours developed your things their settings.	with local wild fich interests and were	pission given by Coottish
8. If gill nets were deployed was this action agreed Ministers? (Legal, CoGP – 4.4.38, 5.4.18)	with local wild fish interests and was perm	hission given by Scottish
9. What action was taken to prevent and minimise t		in code but could
be considered under satisfactory measures of		
10. Is the site inspected as satisfactory with regards	to containment? If no, please detail reas	on(s) Y

		_				_		
Case No:	2021-0118			Date of visit:	13/05/2021			
6'' N	E00575							
Site No:	FS0575			Inspector:				
Results Summary	Freq.			Da	te of Notifica	tion		
, , , , , , , , , , , , , , , , , , , ,		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
			·		_	J		2 1110
Report Summary				1				
Case Type	Date	Insp	2 nd Insp					
ECI, CNI	26/05/2021		2 11100					
ECI, CNI MIX	26/05/2021 27/05/2021							





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0061 Date of Visit 13/05/2021

SITE NO FS0575 SITE NAME Ormsary Smolt Unit

CASE NO 20210118 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.

Mortality records were inspected and found to be adequately maintained.

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

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

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

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory.

R04

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: 2021-0119			Date of visit: 04/05/2021
Time spent on site:	0m	Main II	nspector:
Site No: FS1239 Business No: FB0544	Site Name: Business Name:	Grampian Scotland	
Case Types: 1 DIA	2 REP 3	4 5	6
Water Temp (°C): N/A	Thermometer No:		FHI 045 completed
Observations:	Region: GR	Water type: B	CoGP MA:
Dead/weak/abnormally behaving Clinical signs of disease observe Gross pathology observed?	•	N/A If yes, see addition	nal information/clinical score sheet. nal information/clinical score sheet. nal information/clinical score sheet.
Diagnostic samples taken?			
UNI/REG only - if unable to carry	out intended visit deta	il reason below:	

Notification was received from the Findhorn and Lossie Rivers Trust of a dead eel with suspected fungal infection around the head being found in a smolt trap on the River Findhorn (300803E 857138N). The eel was reported to be 59cm in length and had some small bite marks towards the rear of the fish.

The eel was sampled for screening of known eel pathogens.

Paperwork and sampling completed by observed by

ы	ni uba, version 13							ISS	ued by: FF	11			
	Case no:	2021-01	119	Site No:		FS1239			Date of vis Sampling:		04/0	05/2021	
	Priority samples:	VI		ВА		PA		MG	camping.	н			
	Time sampling starts/ends:	12:0	00:00	12:3	0:00		Inspecto	or:			VMD No).	0
	Environmental conditions:	1	Dry	2	Cloudy	3		4		5			
	Summary samples	HIST		ВА		MG	Y	VI		РА	Y	Total Sa	mples
A	dd Fish/Pools - click												
Г	Pool/Fish No												
Г	Fish nos	1	1										
	Pool Group												
Г	Species	EEL	EEL				\neg						
	Average weight	N/A	N/A										
	Sex	N/A	N/A										
	Water Type	FW	FW										
Details		Findhorn	Findhorn										
	•	ing	Ind				l						
Stock	Stock Origin Facility No		_										
S	I acility NO	N/A	N/A										

	Addition	nal Sam	ple Infor	mation:						
0		Total To	ests ass	igned	6					

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

Case no:	2021-0119		Site No	:	FS123	9	Me	ethod of	killing:	Unkno	√n
Date of visit:	04/05/2021	l	Inspect	or(s):				s	heet Re	elevant:	Υ
S for strong presen	ce: M for medium presence: W for w	veak pres	ence								
Fish Number											
	er death (if > 45 minutes)										
Behaviour	Moribund										
	Lethargic										
	Hanging vertical										
	Spiralling										
	Flashing										
	Loss of equilibrium										
Body	Dark										
	Distended abdomen										
	Anorexic										
	Scale Oedema										
Opercula	Shortened										
	Flared		\sqcup								
Haemorrhaging	Throat										
	Ventrum										
	Base of fins										
F	Elsewhere										
Eyes	Exophthalmic										
	Enophthalmic (sunken)										
	Cataract										
Gills	Haemorrhagic Pale										
GIIIS	Zoned										
	Necrotic										
Lesions	Flank										
Lesions	Elsewhere										
Vent	Inflamed										
VOIIL	Trailing faeces										
Lice Load	Estimate numbers										
Internal Signs											
Ascites	Clear										
	Bloody										
Oedema	In tissues										
Heart	Pale/anaemic										
	Granulomas										
	Deformed										
Liver	Petechial haem										
	Gross haem		\sqcup								
	Tissue breakdown										
	Enlarged										
	Colour number(s) Granulomas										
	Lesions										
Pyloric caeca	Petechial haem										
i yioric caeca	Tubules mauve										
	Lack of fat										
Spleen	Enlarged										
- рисси	Granulomas										
Gut	No food present										
	Yellow pseudo-faeces										
	External haem										
	Internal haem										
Body wall	Haemorrhaging										
Swim bladder	Haemorrhaging										
	Fluid filled										
Kidney	Swollen										
	Grey										
	Granular										
	Liquefied										
General	Parasites present										
	Anaemia										

Case no: 2021-0119

Date of visit: 04/05/2021

Date of visit:	04/05/2021	ı					
S for strong preser	nce: M for medium presence: W for v	•					
Fish Number	ico. Il foi modium prosoneo. W foi i		г -				
	er death (if > 45 minutes)						
External Signs	er death (ii > 40 iiiiidtes)						
Behaviour	Moribund						
Dellavioui	Lethargic						
	Hanging vertical						
	Spiralling						
	Flashing						
	Loss of equilibrium						
Body	Dark						
	Distended abdomen						
	Anorexic						
	Scale Oedema						
Opercula	Shortened						
	Flared						
Haemorrhaging	Throat						
	Ventrum						
	Base of fins						
	Elsewhere						
Eyes	Exophthalmic						
	Enophthalmic (sunken)						
	Cataract						
	Haemorrhagic						
Gills	Pale						
	Zoned						
	Necrotic						
Lesions	Flank						
	Elsewhere						
Vent	Inflamed						
	Trailing faeces						
Lice Load	Estimate numbers						
Internal Signs							
Ascites	Clear						
0-1	Bloody						
Oedema	In tissues						
Heart	Pale/anaemic						
	Granulomas						
Liver	Deformed Petechial haem						
Liver	Gross haem						
	Tissue breakdown						
	Enlarged						
	Colour number(s)						
	Granulomas						
	Lesions						
Pyloric caeca	Petechial haem						
. J. 51.0 00000	Tubules mauve						
	Lack of fat						
Spleen	Enlarged						
	Granulomas						
Gut	No food present						
	Yellow pseudo-faeces						
	External haem						
	Internal haem						
Body wall	Haemorrhaging						
Swim bladder	Haemorrhaging						
	Fluid filled						
Kidney	Swollen						
	Grey						
	Granular						
	Liquefied						
General	Parasites present						
	Anaemia						

Additional comments:	
Eel had been frozen for storage. Fungal infection evident around the head.	

Issued by: FHI

Date of issue: 12/05/2020

FHI 059, Version 13

Case No:	2021-0119			Date of visit:	04/05/2021]		
Site No:	FS1239	1		Inspector:				
		•						
Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
MG ANHVQ	0/1	18/05/2021		18/05/2021		04/06/2021		
MG EVEXQ	0/1	18/05/2021		18/05/2021		04/06/2021		
MG FPSY	0/1	18/05/2021		18/05/2021		04/06/2021		
MG IPNP	0/1	18/05/2021		18/05/2021		04/06/2021		
SAPROLEGNIA SP	1/1	18/05/2021		18/05/2021		04/06/2021		
GYRODACTYLUS SP	0/1	18/05/2021		18/05/2021		04/06/2021		
	Ì	1						
	1	ì						
	†	-						
	1	-						
Report Summary				1				
Case Type	Date	Insp	2 nd Insp					
DIA, REP	04/06/2021		_ 11130					
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	1							
	 							
	 							
	 							
	I							





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0544 DATE OF VISIT 04/05/2021
SITE NO FS1239 SITE NAME Grampian
CASE NO 20210119 INSPECTOR

Section 1: Summary

The Fish health Inspectorate was notified by the Findhorn, Nairn and Lossie Rivers Trust, that a dead eel had been removed from the Findhorn Red Craig smolt trap with an apparent Saprolegnia infection around the head. The eel was sampled for diagnostic purposes, from the samples taken infection with *Saprolegnia* spp. was identified, no parasites were observed or known eel pathogens detected.

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 Fish health Inspectorate was notified on the 23rd April 2021 by the Findhorn, Nairn and Lossie Rivers Trust, that a dead eel had been removed from the Findhorn Red Craig smolt trap with an apparent Saprolegnia infection around the head. The eel had been placed in a freezer for storage, following discussions with diagnostic lab staff it was agreed that limited samples for known eel pathogens should be taken. A meeting was arranged with the Director of the Trust to collect, examine and sample the eel on the 4th May 2021.

The eel was 59cm in length and had what appeared to be a significant Saprolegnia infection around the head, there were also what appeared to be small bite marks towards the rear of the fish, these were thought to be from another eel. Internally no gross pathology was observed.

Samples

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

Fish number	Pool number	Species	Stage	Origin
1	1	European Eel (<i>Anguilla Anguilla</i>)	N/A wild	River Findhorn

Results

Bacteriology: Kidney material was tested for segments of nucleic acid indicative of the presence of *Flavobacterium psychrophilum* using real-time PCR (qPCR), the result of this test was negative.

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

The samples tested negative for anguillid herpesvirus 1 (AngHV1), eel virus European (EVE), Eel Virus European X(EVEX).

Parasitology: Fins were collected to determine the presence of parasites using light microscopy and molecular techniques (PCR).

No parasites were detected in the samples examined.

Fungal mycelium was visible covering the skin surface. Mats consisted of grey/beige non-branching aseptate hyphae with sporangia, consistent with *Saprolegnia* spp.



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: 202	1-0125		Date of visit: 07/05/2021			
Time spent on site:	0 min	Main Inspe	ctor:			
	Site Name: Business Name:	Callop Fish Rearing Site Broadland Properties Ltd				
Case Types: 1 PSI	2 3	4 5	6			
Water Temp (°C):	Thermometer No:		FHI 045 completed			
Observations:	Region: HI	Water type: F	CoGP MA:			
Dead/weak/abnormally Clinical signs of diseas Gross pathology obsel Diagnostic samples ta	ved?	If yes, see additional inf	If yes, see additional information/clinical score sheet. If yes, see additional information/clinical score sheet. If yes, see additional information/clinical score sheet.			
UNI/REG only - if unable to carry out intended visit detail reason below:						

Site fallow since 2015. Site was used in the past to hold hatched wild fish for release into local rivers, with broodstock stripped and removed from the river the fish were released back into for stock improvement purposes.

Tank gets water from different river than the broodfish would come from. Preferred plan would be to have broodfish held at Drimsally Mill, then eggs moved to Conaglen hatchery and then fish onto Callop and released from there. However manager is unsure this would be allowed now. Currently in the process to try and establish how the operation could be picked up again.

FHI 059, Version 13		Issued by: FHI			Date of	of issue	: 12/05/2020
Case Number:	2021-0125		Site No:	FS1218		Insp:	
Date of Visit	07/05/2021		No of m	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of n	novements on from equivalent MS	0	5	10	14	0
with GB) of susceptible species		novements on from equivalent zone or	0	9	18	26	0
·	Number of sup	ncluding third country	0			14	0
Movements off	Frequency of n		0	3		10	6
INIOVERNETIES ON	Number of des		0			10	3
Exposure via water		Site contacts	. 0	1-5	6-10		
Water contacts with other farms (holding species	Farm is protect disinfection or l	ed (secure water supply through borehole)	0				
susceptible to same diseases)	farms upstrean	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		1
	farms upstrean	or in a coastal zone with category III or within 1 tidal excursion	1	3	6		
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	g plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro		0				0
	Processing ow	n fish (re-cycling risk)	1				
		from MS of equivalent status	2				
	equivalent stati		4				
		from Category III farm	8				
	Processing fish	r from Category V farm	10				
Disposal of fish and fish by-	Site's own was	te only processed.	0				0
products	Common proce	esses with other farms	3				
	Collection poin	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0	1			0
	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		1
	Sites sharing s	taff and equipment	0	1	2		0
Disinfection of equipment between sites, use of	Yes		0				0
footbaths etc	No		1				
CoGP/Regulator							
Practices in accordance	Yes		0				
with regulator or industry code of practice	No		3				3
Platform access to cages	Yes		0	1			0
	No		2				
			,	•	Total		1/1
					Rank		LOW

FHI 059, Versi	on 13		Issued	by: FHI		Date of iss	sue: 12/05/2020
Case No:	2021-0125		Site No:	FS1218			
Date of case:	07/05/2021				Inspector(s):		
Registration/	Authorisation De	etails					
_	contacts correct?		e summary she	et)			Y
Site Details							
Total No facilit	ies	3	No facilities sto	cked	()	
Species	fallow						
Age group No Fish							
Mean Fish Wt							
Next Fallow Da		N/A		Next Input Date	e (Site)	Winter 2022 or	Spring 2023
	, ,		11/02/2014	·	(= 12)		-1 3
Date of last ins	spection: (ECI or	PSI)	11/03/2014	J			
Mortality Info							
•	ncreased or atyp	ical mortalities?	(last 4 weeks).				N/A
If yes, detail:	ed mortalities? (s	inco last inspec	tion \				N/A
If yes, detail:	ed mortalities? (s	since last inspec	11011.)				IN/A
	rtalities disposed	l of?			Domestic was	te - <25kg	
If other detail:							
Treatments a	nd Medicines						
	ents? (since last in	nspection)					N
If yes, detail:							
Other:							
Health status	and Results of	Surveillance					
•	on site? (since l	ast inspection)					N/A
If yes, detail:	man l handth aversa	Illamaa haan aan					NI/A
 Has any ani Any significa 	mal health survei	illance been cari	ried out by, or or	n benair or, the t	ousiness?		N/A N/A
If yes, detail	ant results:						14/74
Sea lice							NI/A
1. Has the site If yes, detail:	experienced sea	a lice problems in	n the previous 4	years?			N/A
-	vels stayed below	v the suggested	criteria for treatr	ment in the CoG	P since the last	inspection?	N/A
If no, detail:	voic diayed polev	v ino ouggoolou	oritoria for troati	110111111111111111111111111111111111111		inopositori.	,, .
· ·	ge adult female s	ea lice (L. salmo	onis) numbers p	er fish been at a	level of 3 or ab	ove (prior to w/b	N/A
10/6/19) or 2 c	or above (from w/	b 10/6/19) since	the last inspecti	ion?		'	
•	nave these been i	•	•		see comment.		N/A
	e have treatment	t discharge cons ■	ents relevant to	sea lice?		_	N/A
If yes, detail:	eutic treatments	or the actions to	ken had a signit	ficant impact up	on the lice level	s recorded?	N/A
If no, detail:	Today i calificitis	or the detions to	aton nad a signi	подпентраот пр		0.100014641	13/7
	gned documente	d farm manager	nent agreement	or statement re	levant to the sit	e and CoGP	N/A
	ment Area (or eq		in alout) follo		van a sis d	an alaas ka isa	NI/A
o. Is the CoGP	P Farm Managem	ient Area (or eqt	iivalent) tallowe	u synchronousi	y on a single ye	ai ciass dasis?	N/A

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020							
Escapes/Containment									
Any reported escapes? (check prior to phone call)									
2. Any escapes? (since last inspection)	N								
If yes, detail:									
(include date)									
Diagonarity Doggrada									
Biosecurity Records									

Any significant changes to your biosecurity procedures since previous visit?
 If yes, detail: New plan to be developed prior to stocking.

Case No:	2021-0125			Date of visit:	07/05/2021			
Site No:	FS1218	1		Inspector:		l		
Results Summary	Freq.			Da	te of Notifica	tion		
,		Database	Insp	Phone	Insp		Insp	2 nd Insp
Report Summary				1				
Coop Type	Date	lnon	and L	4				
Case Type PSI	10/05/2021	Insp	2 nd Insp					
1 01	10/03/2021							





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0538 Date of Visit 07/05/2021

SITE NO FS1218 SITE NAME Callop Fish Rearing Site

CASE NO 20210125 INSPECTOR

Routine surveillance frequency assessment under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

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.

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

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

Signed:

Fish Health Inspector

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

Date: 10/05/2021

FHI 059, Version 13	Iss	ued by: FHI	Date of issue: 12/05/2020						
Case No: 2021-0132			Date of visit: 14/05/2021						
Time spent on site:	5.5 hours	Main Inspecto	or:						
Site No: FS0253	Site Name:	Loch Spelve (B)							
Business No: FB0125	Business Name:	Scottish Sea Farms Ltd							
Case Types: 1 REP	2 WEL 3 DIA	4 5	6						
Water Temp (°C): 9	Thermometer No:	T172	FHI 045 completed						
Observations:	Region: ST	Water type: S	CoGP MA M-39						
Dead/weak/abnormally behaving	•		mation/clinical score sheet.						
Clinical signs of disease observe	d?		mation/clinical score sheet.						
Gross pathology observed? Diagnostic samples taken?		Y if yes, see additional infor	mation/clinical score sheet.						
UNI/REG only - if unable to carry out intended visit detail reason below:									

Additional Case Information:

Site paperwork inspected remotely by on 12/05/2021. Physical inspection done by on 14/05/2021. During physical inspection conducted due to a complaint from Scottish salmon watch. Whilst group were on site they filmed some moribund fish and fish with lesions that appear to be winter ulcers. The complaint was that a breach of the Animal Welfare Act 2006 had occurred.

WRS caught from wild. Caught in west coast of Scotland.

25/03 - 28/03 Paramove for AGD

28/04 - 30/04 Paramove for AGD

Lice levels low since start of cycle and two prophylactic treatments using azamethiphos (Salmosan)

Wk 9 mortality threshold exceeded to 1.29% 5,155 fish. Associated with a azamethiphos treatment combined with higher than average levels AGD and PGD.

Billy Bowie called onto site during peak in mortality to remove excess mortality that could not be incinerated. Fish disposed of at Barkip Biogas plant.

Ulcers first observed in end of March once fish were crowded for treatment

Some deformities observed by sites staff in February in stock, specifically a compressed head. Other deformities observed during site inspection including shortened snouts, shortened opercular, deformed fins and deformed spines.

Sub-population of runted fish developed, formed predominantly of deformed fish. Planned to bring runt fish off site using a grader on board a well boat that will visit on 17/05/2021. Fish taken off live and will be harvested. Larger fish will be left on site. Two particular cages affected are 12 and 7. Worst cages will be graded first on Monday.

Divers on site on Friday before inspection (07/05/2021) asked to look for deformities during a routine net inspection.

Deformities were observed and communicated to site manager.

Deformities not observed by site staff in all cages.

Proactively been removing runts and moribund fish since April using a hand net.

Complex gill issues diagnosed by FVG on 10/03/2021. FVG called onto site following mortality event. AGD diagnosed by FVG via swabs.

AGD scores improving since mid-April

Fish on site positive for salmonid gill pox, branchiomonas cysticola, piscine reovirus and AGD. Histo results from 13/05/2021, from Pharmaq Analytiq Ltd. Also tested for CMS, HSMI, IPNv but not detected.

ADD was removed from the site after the a change in policy that required a license before using an ADD. Site in the process of Feed called "Assist-Skin" (from Biomar) has been used on site since the observation of lesions at the end of March this reported Thermolicer visits: 02/04/2021: cages 3 and 6 treated. 14/04/2021 - 16/04/2021 cages 1, 4, 7, 10, 11 and 12 treated.

During site inspection, 31 moribund fish were removed from the site using a hand net

FHI 059, Version 13			Issu	ed by: FHI			Date of issue	e: 12/05/2020		
Case No:	2021-0132		Site No:	FS0253						
Date of Visit:		14/05/2021]		Inspector(s):					
Registration/Author	risation Deta	ils								
1. Business/site deta	ils summary	checked by s	ite representa	ative?			Υ			
2. Changes made to	details?						N			
Site Details (include	e cleaner fisl	h for all secti	ions)							
Total No facilities		12	Facilities sto	cked	12	No facilities	s inspected	12		
Species	SAL	WRS								
Age group	2020 S1	Mixed								
No Fish	369,195	8,792								
Mean Fish Wt	1.8kg	0.2kg								
Next Fallow Date (Si		Sept 2021 ap	oprox.	Next Input Da	te (Site)	Undetermi	ned at presen	nt		
Recent (last 4 wks) o	,		<u> </u>		Any escapes			N		
` ' '	Two treatme		paramove us		, any coccupies	(5	,.			
Movement Records										
Movement records		r inspection?								
2. Date of last inspec		inspection:					09/12/2021			
•		atly antarad?	,				09/12/2021			
3. Are records comp								I		
4. Are movement red								1		
5. Are records comp				11.0				Υ		
6. Are health certification	ates for introd	uctions (outw	ith GB) avalla	able?				N/A		
Transport Records										
1. Are any movemen										
If yes, is there a syst	em in place fo	or maintenan	ce of transpor	rtation records?	?					
Mortality Records										
1. Mortality records a	available for ir	nspection?						Y		
2. How are mortalitie	s disposed of	f?			Incinerated -	on site				
If other detail:	Mortalities w	ere removoed	by Billy Bow	ie after an incre	ease in mortal	itv in wk 9				
3. Mortality records of								Y		
4. Recent mortality (I	ast 4 wks):	•	wk 18: 0.76%	% 2,835 fish, wl	k 17: 0.86% 3	.268 fish. wl	x 16: 0.43% 1	.633 fish. wk		
5. Evidence of recen	•	typical mortal				,,		N		
If yes, facility nos/no				/reason:						
,	, , , , , , , , , , , , , , , , , , ,									
6. Any other peaks ir	n mortality du	ring period ch	ecked?					Y		
	-			arch attributed	to complex ail	Lissues and	a bath treatn	nent		
	Mortality at 1.29% reported to FHI in March attributed to complex gill issues and a bath treatment. Mortality returned to below threshold the following week.									
7. Have increased (u								Y		
If yes, detail action:			-	ortality over 1%	0					
8. Have 'mortality ev						eet.		Y		

Treatments and Medicines Records	
1. Recent treatments (see comment)?	Y
H2O2,	
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?	
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any	
increased (unexplained) mortality at the site been included?	
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease	
is detected been included and how and when that will be notified to Scottish Ministers?	
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher	
health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of	
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	
If no, detail:	
Results of Surveillance	
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). See Additional Information	
Records checked between: 09/12/2020 - 14/05/2021	

	11 009, Version 13							1330	aed by. Fini	•			
	Case no:	2021-01	132	Site No:		FS0253			Date of visi Sampling:	t/	14/0	05/2021	14/0
	Priority samples:	VI		ВА		PA		MG	Sampling.	н			
	Time sampling starts/ends:		5:00		5:00		Inspecto	or:		_	VMD No). [0
	Environmental conditions:	1	Indoors	2		3		4	_	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	4	5	1-5						
	Pool Group	P1	P1	P1	P1	P1							
	Species	SAL	SAL	SAL	SAL	SAL	SAL						
	Average weight	1.5000	1.5000	1.5000	1.5000	1.5000	1.5000						
	Sex	N/A	N/A	N/A		N/A	N/A						
	Water Type	SW	SW	SW	SW	SW	SW						
Stock Details		ص Barcaldine smolt unit	9 Barcaldine smolt unit	2 Barcaldine smolt unit	2 Barcaldine smolt unit	Barcaldine smolt unit	Barcaldine smolt unit						

5/2021 Additional Sample Information:														
Extra lesion sample in each of the hitology pots. Due to lack of labels, DNA tubes labelled with permanent marker, extra care was taken to ensure lids were secure.														
6 Total Tests assigned 7														

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

Case no:	2021-0132	Site No:) :	FS025	3	Method of killing: Percussive				
Date of visit:	14/05/2021]	Inspec	tor(s):				S	heet Re	elevant:	Y
S for strong present	ce: M for medium presence: W for	weak pres	sence								
Fish Number		1	2	3	4	5					
Time sampled afte External Signs	r death (if > 45 minutes)	2 hours	2 hours		2 hour	1 hour					
Behaviour	Moribund	М	М	S	M	M					
Dellavioui	Lethargic	M	М	S	M	M					
	Hanging vertical										
	Spiralling										
	Flashing										
	Loss of equilibrium			S							
Body	Dark										
	Distended abdomen			W							
	Anorexic										
	Scale Oedema										
Opercula	Shortened			W							
•	Flared										
Haemorrhaging	Throat										
	Ventrum										
	Base of fins										
	Elsewhere										
Eyes	Exophthalmic										
	Enophthalmic (sunken)										
	Cataract										
	Haemorrhagic										
Gills	Pale	S	M	M	S	M					
	Zoned										
	Necrotic	S									
Lesions	Flank	M				M					
	Elsewhere		M	M	M						
Vent	Inflamed										
	Trailing faeces										
Lice Load	Estimate numbers			2							
Internal Signs											
Ascites	Clear										
, ioditoo	Bloody										
Oedema	In tissues										
Heart	Pale/anaemic										
1104.1	Granulomas										
	Deformed										
Liver	Petechial haem	M									
	Gross haem										
	Tissue breakdown										
	Enlarged										
	Colour number(s)										
	Granulomas										
	Lesions										
Pyloric caeca	Petechial haem										
	Tubules mauve										
	Lack of fat		W	W	W	W					
Spleen	Enlarged										
	Granulomas										
Gut	No food present	M	M	M	М	M					
	Yellow pseudo-faeces		W	W							
	External haem										
	Internal haem										
Body wall	Haemorrhaging	W									
Swim bladder	Haemorrhaging										
	Fluid filled										
Kidney	Swollen										
	Grey	М	M	М	М	M					
	Granular	M	М	М							
	Liquefied										
General	Parasites present										

Case no: 2021-0132

Date of visit: 14/05/2021

Singer presence: M for medium presence: W for w Time sampled after death (if 2 45 minutes) External Signs Behaviour Monitund Lethargic Hanging vertical Spiralling Flashing Fl
Fish Number Time sampled after death (if > 45 minutes) External Signs Behaviour Lethargic Hanging vertical Spiralling Flashing Loss of equilibrium Body Dork Obstended abdomen Obstended abdomen Anorexic Scale Oederna Sportaned Percula Shortened Scale Oederna South Oederna South Oederna South Oederna Seas of fins Elsewhere Eyes Exophthalmic (sunken) Cataract Heamorrhagic Gills Pale Zoned Necrotic Lesions Flank Elsewhere Vent Inflamed Trailing faeces Lice Load Estimate numbers Heart Petchlanemic Caranulomas
Time sampled after death (if - 45 minutes) Ethernal Signs Behaviour Monibund Lethargic Hanging vertical Spiralling Flashing Loss of equilibrium Body Dark Ancresic Scale Oddoma Opercula Shortened Flared Hamming Inrost Hamming Inrost Esewhere Eyes Exophinalmic (aunken) Consect Ancersic Sase of fins Esewhere Esewhere Elsewhere Inflamed Necrotic Lesions Flank Esewhere Vent Inflamed Inflamed Elsewhere Vent Inflamed Internal lame Internal lame Elsewhere Internal lame Elsewhere Elsewhere Internal lame Elsewhere Elsewhere Internal lame Elsewhere Elsewhere Internal lame Int
External Signs Behaviour Moribund Hanging vertical Spiralling Flashing Flashing Flashing Distended abdomen Distended abdomen Anorexic Opercula Scale Oedema Haemorrhaging Throat Elsewhere Eyes Exophthalmic (sunken) Cataract Haemorrhagic Gills Pale Cataract Haemorrhagic Cills Flank Elsewhere Eyes Exophthalmic (sunken) Cataract Haemorrhagic Cills Flank
Behaviour Moribund
Lethargic
Hanging vertical
Spiralling
Flashing
Loss of equilibrium
Body Dark
Distended abdomen
Scale Cedema
Sportened
Sportened
Flared
Haemorrhaging Throat
Ventrum
Base of fins
Elsewhere
Exemplification
Enophthalmic (sunken)
Cataract
Haemorrhagic
Gills
Zoned
Lesions
Lesions
Vent Inflamed Intalling faeces Internal Signs
Vent Inflamed Intalling faeces Internal Signs
Trailing faeces
Lice Load
Internal Signs
Ascites Clear
Ascites Clear
Oedema In tissues Heart Pale/anaemic Granulomas Image: Company of the part o
Heart
Granulomas
Deformed
Liver
Gross haem
Tissue breakdown Enlarged Colour number(s) Canulomas Enlarged Colour number(s) Canulomas
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 Granular Liquefied General Parasites present
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 Granular Liquefied General Parasites present
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 Granular Liquefied General Parasites present
Lack of fat Image of the control of the c
Spleen Enlarged
Granulomas
Gut No food present
Yellow pseudo-faeces
External haem
Internal haem
Body wall Haemorrhaging Image: Company of the company
Swim bladder Haemorrhaging Image: Control of the contr
Fluid filled
Kidney Swollen
Grey
Granular
Liquefied Seneral Parasites present Seneral Se
General Parasites present
Anaemia Anaemia

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2	2020
Additional comments:			
Lesions: F2 lesion on tail, F3 lesion on opercular valve deformed, opercular valve of F3 was shortened, snout mortem. Deposit (appears to be fat) on the spleen of F	of F5 and F2 were shortened.	Head of F2 and F5 were slightly F3 lost an eye but this was post	

Site No: FS0253

Case No: 2021-0132

Nature of non-compliance:

Action taken (FHI):

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

Case No: 2021-0132 Date of visit: 14/05/2021 Site No: FS0253 Inspector: Results Summary Freq. **Date of Notification** 2nd Insp Writing Database Insp Phone Insp Insp AGD 5/5 19/05/2021 18/05/2021 03/06/2021 19/05/2021 ISA 1/1 18/05/2021 03/06/2021 19/05/2021 18/05/2021 SAV 0/1 03/06/2021 IPN 0/1 19/05/2021 18/05/2021 03/06/2021 IHN 0/1 19/05/2021 18/05/2021 03/06/2021 18/05/2021 03/06/2021 VHS 0/1 19/05/2021 03/06/2021 CGDH 4/5 28/05/2021 01/06/2021 01/06/2021 28/05/2021 **EPIT** 5/5 03/06/2021 **GPAT** 5/5 01/06/2021 28/05/2021 03/06/2021 5/5 SULC 01/06/2021 28/05/2021 03/06/2021 LPAT 1/5 01/06/2021 28/05/2021 03/06/2021 **KPAT** 1/5 01/06/2021 28/05/2021 03/06/2021 03/06/2021 **MPAT** 4/5 28/05/2021 01/06/2021 4/5 **PMCH** 01/06/2021 28/05/2021 03/06/2021 **PNST** 5/5 01/06/2021 28/05/2021 03/06/2021 SPVP 5/5 01/06/2021 28/05/2021 03/06/2021 **VSPE** 5/5 01/06/2021 28/05/2021 03/06/2021 03/06/2021 01/06/2021 28/05/2021 PHOT 5/5 28/05/2021 03/06/2021 **VVIS** 2/5 01/06/2021 Report Summary 2nd Insp Case Type Date Insp 03/06/2021 DIA





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 FB0125
 DATE OF VISIT
 14/05/2021

 SITE NO
 FS0253
 SITE NAME
 Loch Spelve (B)

 CASE NO
 20210132
 INSPECTOR

Section 1: Summary

The site was visited following a welfare complaint. During the physical inspection five fish were removed for diagnostic sampling.

Histopathology examination revealed mixed pathology. Integument displayed ulcerative bacterial dermatitis and the gill displayed complex gill pathology, although the reading of the gill, gut and pyloric caeca of some fish was compromised by autolysis artefacts. Liver of F1 displayed mild zonal haemorrhagic hepatocellular necrosis and glomerular necrosis, potentially linked to *Moritella* infection.

Due to gill health issues observed on site samples were screened for *Neoparamoeba perurans*, salmon gill poxvirus (SPGV) & *Paranucleospora theridion* (syn. *Desmozoon lepeophtherii*) by QPCR and tested positive for all three pathogens.

Samples were screened for infectious salmon anaemia virus (ISAV) by QPCR as part of surveillance program for control of listed diseases. The samples tested positive for infectious salmon anaemia virus (ISAV) by QPCR and the sequence data confirmed to be ISAV HPRO, the non-pathogenic form of the virus. Additionally, an ISAV immunochemistry (IHC) assay that target against the pathogenic form of the virus (ISA-deleted nucleoprotein) was performed and confirmed to be negative for the pathogenic form.

Vibrio sp. Photobacterium sp. and Moritella viscosa were identified, these can be pathogenic however the level and purity would not suggest they are implicated in current 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 visited following a complaint. Whilst the complainant was on site they filmed some moribund fish and fish with lesions that appeared to be winter ulcers. The complaint was that a breach of the Animal Welfare Act 2006 had occurred.

During the inspection of paperwork (that was undertaken remotely with a member of Animal and Plant Health Agency (APHA) present) it was observed that mortality levels were not significantly R09

elevated and sea lice levels remained low. Veterinary advice had been sought after lesions were observed on the fish in March 2021. The fish were fed on an enriched food to increase the rate of healing in the fish population. A number of deformities were also notified by site staff in February 2021, specifically a compressed head. The business correspondent explained that a sub-population of runt fish had developed during the current cycle, and a well boat visited has been planned to remove this sub-population on 17/05/2021, after the physical inspection of the site. The site staff were also aware of amoebic gill disease and proliferative gill disease in the population. Two treatments using Paramove were conducted in March and April to try to alleviate this issue.

During the physical inspection, members of staff from APHA, Argyll and Bute Council and the Royal Society of the Prevention of Cruelty to Animals (RSPCA) were present. Whilst the physical inspection took place it was clear that there were moribund fish on site. Some fish had lesions and others had deformities. During the physical inspection, 31 moribund fish were removed from the site using a hand net. From these fish, 5 were selected for internal examination and sampling.

Clinical signs of disease included morbidity and lethargy present in all 5 fish sampled. Fish 3 also had a loss of equilibrium, a distended abdomen and a shortened opercula. All fish had pale gills and the gills of fish 1 were also necrotic. All fish had lesions, some on the flank, opercular valve and tail. Fish three also had 2 sea lice present.

Internally, petechial haemorrhaging of the liver and haemorrhaging in the body wall was exhibited in fish 1. There was a lack of fat associated with the pyloric caeca in fish 2-5 and no food was present in the gut of any fish. Pseudo-faeces were present in the gut of fish 2 and 3. The kidney in all fish appeared grey and the kidney of fish 1-3 were also granular.

Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
1	1	3	Atlantic salmon (Salmo salar)	Grower 2020 S1 ~1.8kg	Barcaldine Smolt Unit
2	1	5	Atlantic salmon (Salmo salar)	Grower 2020 S1 ~1.2kg	Barcaldine Smolt Unit
3 and 4	1	7	Atlantic salmon (Salmo salar)	Grower 2020 S1 ~1.5kg	Barcaldine Smolt Unit
5	1	12	Atlantic salmon (Salmo salar)	Grower 2020 S1 ~1.5kg	Barcaldine Smolt Unit

Results

Bacteriology: Kidney, gill and lesion material from fish 1 - 5 were inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated.

Vibrio sp. was identified on plates taken from kidney and lesion material of 5/5 fish and gill material of 3/5 fish. The level and purity of growth would not suggest it would be implicated in current

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morbidity, however, on the plates taken from lesion material of fish 4 and 1, the level and purity would suggest it may be the primary source of the lesion sampled. In fish 1 this *Vibrio* sp. was the predominant colony observed in heavy mixed growth and in fish 4 it was observed as almost pure heavy growth.

Photobacterium sp. was identified on plates taken from kidney material of 3/5 fish and lesion material of 5/5 fish.

Moritella viscosa was identified on plates taken from lesion material of fish 1.

The level and purity would not suggest these bacteria would be implicated in current morbidity.

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

ISAV

Pool Number	Endogenous control Cp value		Reported Result (PCR)		
P1	15.18	35.23	37.01	36.63	POSITIVE

Salmon gill poxvirus

Fish Number	Endogenous control Cp value		Reported Result (PCR)		
F1	17.92	28.36	28.34	28.48	POSITIVE
F2	18.84	32.94	33.58	32.90	POSITIVE
F3	18.79	26.77	26.73	26.82	POSITIVE
F4	19.05	31.32	31.34	31.24	POSITIVE
F5	18.64	27.83	28.07	27.66	POSITIVE

The samples tested negative for infectious haematopoietic necrosis virus (IHNV), infectious pancreatic necrosis virus (IPNV), 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		Reported Result (PCR)		
F1	17.92	34.51	34.77	34.10	POSITIVE
F2	18.84	35.37	35.07	34.68	POSITIVE
F3	18.79	33.01	33.50	32.52	POSITIVE
F4	19.05	33.02	32.50	32.26	POSITIVE
F5	18.64	30.60	30.68	30.53	POSITIVE

Paranucleospora theridion

Fish Number	Endogenous control Cp value		Reported Result (PCR)		
F1	17.92	24.58	24.75	24.64	POSITIVE
F2	18.84	22.86	22.87	22.85	POSITIVE
F3	18.79	22.15	22.15	22.22	POSITIVE
F4	19.05	23.33	23.37	23.37	POSITIVE
F5	18.64	21.46	21.70	21.49	POSITIVE

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

Histopathological examination revealed the following:

<u>Gill</u>: Mild interlamellar epithelial hyperplasia and lamellar fusion, observed mainly at the tips of the gill filaments (F1-F3, F5). Few scatter lamellar vessels displaying necrosis (F1). Several basophilic epithelial inclusions (likely epitheliocystis) also noted in all fish. Several scattered aneurysmal dilation/telangiectasia, lamellar congestion and freed blood among gill filaments (F1-F5). Autolytic artefacts noted on F1-F4. F4, gill reading hindered by autolytic artefacts.

<u>Skin & Muscle</u>: Absence of epidermal, mild dermal oedema and presence of rod-shaped Gramnegative bacteria noted in F1-F2, F4 exhibited moderate, multifocal, skeletal muscle necrosis and degeneration. The red muscle displayed mild haemorrhage and some leucocyte cell infiltration.

<u>Gut and pyloric caeca:</u> Some to marked cell sloughing, likely associated with post-mortem artefacts (F1, F2, F3, F4, F5).

Pancreas: Within the normal range. F2 exhibited some autolytic artefacts.

<u>Liver</u>: Random, mild, multifocal hepatocellular cell degeneration and necrosis, multifocal congestion and dilation of the hepatic sinusoids and foci of sinusoidal haemorrhage with several cells exhibiting granules of melanin. A varied number of hepatocytes exhibited cytoplasmic inclusions roughly spherical of varied size (ranging from 9.8 to 17.8 µm), some being brightly eosinophilic but the majority presented more basophilic properties, potentially linked to erythrocyte degradation..

<u>Kidney</u>: Several glomeruli displayed shrunken appearance, congested vessels and proteinaceous material with in Bowman capsule (F1). F2 and F3 also exhibited within the glomeruli eosinophilic material, potentially linked with erythrocyte degradation.

Spleen: Within the normal range

Signed: Date: 03/06/2021

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/

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Image 1: Fish with lesions





Image 3: Fish 2 on deck of boat





Image 5: Fish 1 (from cage 3)





Image 7: Fish 3 (from cage 7)





Image 9: Fish 5 (from cage 12)





Image 11: spots (possibly fat) on the spleen (fish 5, from cage 12)