FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018					
Case No: 2018-0557			Date of visit: 08/11/2018					
Time spent on site:	hours	Main Inspec	tor:					
Site No: FS0462 Business No: FB0134	Site Name: Business Name:	Kames Bay (east) Kames Fish Farming Ltd						
Case Types: 1 ECI 2	2 CNI 3 SLI	4 5	6					
Water Temp (°C): 11.8	Thermometer No:	T146	FHI 045 completed					
Observations:	Region: ST	Water type: S	CoGP MA M-40					
Dead/weak/abnormally behaving fish present? Clinical signs of disease observed? Gross pathology observed? Diagnostic samples taken? N If yes, see additional information/clinical score sheet. N If yes, see additional information/clinical score sheet. N N								
UNI/REG only - if unable to carry out intended visit detail reason below:								

Additional Case Information:

Fish put onto site last week from Kames West and Torhouse Mill. Partly grown here before being moved back to Shuna Castle or Kames West.

Fish input (5/10/18) from Selcoth to Kames West and now at East. Arrived with suspected RMS but histo indicated more likely to be abrasions damage. Histo and gram staining by Fish Vet Group. Fish have improved and healed. From health report; "skin pathology likely to represent abrasion or surface trauma and no clear evidence of RMS. Gram stain negative".

Morts are ensiled at pier. Ensiled material moving off site recorded in waste notes. Info on waste notes but recorded as one figure for all MH and Kames sites.

Fish removed dead for harvest recorded in harvest advise schedule (HAS). Missing destination but has been only one destination in past. Going forward will be harvested to South Shian and Edinburgh Smoked Salmon in Dingwall. Will add destination to HAS.

Prior to current input fish were moved off site to Kames West in April 2017. No reported issues in this cycle.

Sample weighing TMS used

Salmosan, slice, alphamax. Shuna and Kames West treated this year; bath treatment April/ May 2018 salmosan; March Salmosan; Feb 18 West salmosan.

No lice counts as yet at East yest as fish were only put onto site last week, however were undertaken at West to specified requirements and will be carried out the same at East.

FMA until 2018 Need an 2018-2020. Received V8 Feb 2019, 4/3/19

SOP for lice procedures. No doc with procedures or detail of when to treat.

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Case No:	2018-0557		Site No:	FS0462]			
Date of Visit:		08/11/2018	1		Inspector(s):]
Registration/Authornal 1. Business/site det 2. Changes made to	ails summary		te representa	tive?			Y N	}
Site Details								
Total No facilities		6	Facilities sto	cked	3	No facilitie	s inspected	6
Species	RTR							
Age group	2017 hat							
No Fish	138,304							
Mean Fish Wt	328g							
Next Fallow Date (S	ite)	July 2020		Next Input Da	ite (Site)	this month	from Selcoth	a&Torhouse.
Recent (last 4 wks)	disease probl	ems?		N	Any escapes	(since last	visit)?	N
If yes, detail:					,	`		
M								
Movement Record								
1. Movement record		r inspection?					07/00/0040	Y
2. Date of last inspe		41410					07/06/2016	•
3. Are records comp								ľ
4. Are movement re								1
Are records compAre health certific		-		blo2				N/A
		iuctions (outw	itii GD) availa	ible:				14/7
Transport Records								
1. Are any moveme				•	_			N
If yes, is there a sys	tem in place f	or maintenan	ce of transpor	tation records	?			
Mortality Records								
1. Mortality records	available for ii	nspection?						Y
2. How are mortalities	es disposed o	f?			Ensiled - on s	site		
If other detail:								
3. Mortality records		correctly ente						Y
4. Recent mortality	(last 4 wks):		total morts 2	90 fish since ir	nput, attributed	l to seal dan	nage and tra	de
Evidence of received	nt increased/a	typical mortal	ities?					N
If yes, facility nos/no	mortality per	facility/no sto	ck per facility	reason:				
6. Any other peaks i If yes, detail:	n mortality du	ring period ch	ecked?					N
7. Have increased (uneynlained)	mortalities he	en reported to	vet or FHI2				N/A
If yes, detail action:	aricxpiairied) i	nortaintes bet	on reported to	VCC OF THE				17/
8. Have 'mortality ev	/ents' been re	ported to FHI	? If no. add M	RT case and e	enter on morta	lity events s	heet.	N/A
y o			,			,		

EU 050 V : 40		D / 1: 00/40/0040
FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
1. Recent treatments (last 4 wks)?		Y
If yes, detail: TMS		
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)?	TMS	
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 remove	al, recording and safe dispos	al been considered?
3. Has the manner and period in which the APB will r	•	
increased (unexplained) mortality at the site been in	•	Y
, , , , , , , , , , , , , , , , , , , ,		
4. Has the action that will be taken in the event that t is detected been included and how and when that w		

5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher

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

If no, detail:

1. Has any animal health surveillance been carried out by, or on behalf of, the business?

8. Have the biosecurity procedures been adequately implemented on site?

2. If yes, are results available for inspection?

health status, certification if required)?

aquaculture animals held on site?

3. Any significant results?

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

Records checked between:

7/6/16-date

FHI 059, Version 12		Issued by: FHI			Date of	of issue	: 08/10/2018
Case Number:	2018-0557		Site No:	FS0462		Insp:	
Date of Visit	08/11/2018		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	
Special Control of the Control of th	Number of sup	ncluding third country	0			14	-
Mayamanta off							2
Movements off	Frequency of n Number of des		0			10 10	3
Exposure via water	rtainber of des	Site contacts		_			
Water contacts with other	Farm is protect	ted (secure water supply through					
farms (holding species	disinfection or	,	0				\vdash
susceptible to same diseases)		or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		2
,		or in a coastal zone with category III					-
		n or within 1 tidal excursion	1	3	6		$\overline{}$
		or in a coastal zone with category V n or within 1 tidal excursion	1		8		
	iaims apstream	TO WILLIAM FACUSION	<u>'</u>	-	٥		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	g plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	0				
	Processing ow	n fish (re-cycling risk)	1				1
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent state	n from zone or compartment of us	4				
	Processing fish	from Category III farm	8	1			$\overline{}$
	Processing fish	n from Category ∀ farm	10				
Disposal of fish and fish by-	Site's own was	te only processed.	0	1			$\overline{}$
products	Common proce	esses with other farms	3				
	Collection poin	t for waste from other farms	5				5
Use of unpasteurised feeds	No feeding of ι	inpasteurised feed	0	i			0
	Feeding unpas	teurised feed	5	1			
Biosecurity		Number of sites	1	2 or 3	≥4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		2
	Sites sharing s	taff and equipment	0	1	2		2
Disinfection of equipment	Yes		0	1			0
between sites, use of footbaths etc	No		1				-
CoGP/Regulator				•			
Practices in accordance	Yes		0				0
with regulator or industry code of practice	No		3				\vdash
Jan S. Pidolioo				ı			
Platform access to cages	Yes		0				0
	No		2				
					Total		18
					Rank		MEDIUM

Case No:	2018-0557	Site No: FS0462							
Sea Lice Inspection (S	Seawater Sites Only)								
 Has the site experien 	iced sea lice problems	s in the previous 4 years?	N						
2. Is the CoGP Farm Ma	anagement Area (or e	quivalent) fallowed synchronously on a single year class basis?	Υ						
3. Does the site have access to a range of licenced in-feed and bath sea lice medications (including deltamethrin, azamethiphos and emamectin benzoate) as well as access to suitable biological and/or mechanical control measures, and can these be deployed in a reasonable period of time?									
4. Is there a signed doo Management Area (or e		ement agreement or statement relevant to the site and CoGP Farm	Y						
5. Are sea lice count re	cords available for ins	pection? (Legal SSI, CoGP Annex 6)	Y						
6. Do records adequate	ly reflect the required	standard specified in the SSI and the CoGP? (Legal SSI, CoGP Annex 6	i) Y						
7. Are sea lice (<i>L. salme</i> records are inspected?		low the suggested criteria for treatment in the CoGP during the period the	at N/A						
8. Have average adult f records are inspected?	· ·	monis) numbers per fish been at a level of 3 or above during the period t	that N/A						
If yes, have these been	reported to the Fish I	Health Inspectorate? If no, FHI see comment.	N/A						
9. Is <i>C. elongatus</i> infes	tation at a level which	is considered to cause significant welfare problems? (CoGP 4.3.81, 5.3.	.50) N/A						
		stered or other actions taken when <i>L. salmonis levels</i> have exceeded the elongatus is considered to have welfare implications? (CoGP 4.3.82, 5.3.							
11. Has any other action	n been taken (where a	applicable)?	N/A						
•	•	s taken had a significant impact upon the lice levels recorded?	N/A						
•		out in cooperation between participating farms?	N/A						
		where fewer populations or part populations are held without treatment for							
15. Is there a site speci- scenarios during the es		ement procedure with waypoints describing set actions to deal with recognfestation?	nised N						
16. Do the sea lice leve	ls observed on stocks	reflect sea lice count data? If no please detail reasons.	N/A						
Containment Inspection	on								
1. Has the site experien	ced equipment dama	ge due to predators in the current or previous production cycles?	N						
2. Are measures in plac	ce to mitigate against t	the predation experienced on site? (Detail below)	Y						
ADD, top nets false b	ottoms								
If other, detail below:									
·									
 Have escape incider 	nts or events been exp	perienced on or in the vicinity of the site since the last FHI inspection?	N						
If Yes proceed with que	stions 4 – 9. If No skip	to question 10							
4. Have these been rep	orted to Scottish Minis	sters?							
		orthwith (where they exist)? (CoGP - 4.4.37, 5.4.17)							
6. Have these been rep	orted to the SSPO an	d local fisheries trusts forthwith (where they exist)? (CoGP – 4.4.37, 5.4.	17)						
7. Were methods (if any	y) used to recover esc	apees? If yes give detail							
O If all note were deal-	wod was this satisfact	ground with local wild fish interests and was negociation always by Contillate							
Ministers? (Legal, CoG	P – 4.4.38, 5.4.18)	greed with local wild fish interests and was permission given by Scottish							
		mise the risk of further escapes? (Not covered in code but could							
be considered under	•	·							
10. Is the site inspected	l as satisfactory with r	egards to containment? If no, please detail reason(s)	Υ						

Issued by: FHI

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Date of issue: 08/10/2018

Case No: 2018-0557 Site No: FS0462 Date of Visit: 08/11/2018 Inspector: Point of Compliance 1. Is the farm under inspection located within a farm management area? If N., no further questions require completion. Points of Compliance for Both Farm Management Agreements and Statements 2. Has a current farm management agreement or statement (FMAg/S) been prepared? 3. Is the current FMAg/S available for inspection? 4. Does the FMAg/S identify the relevant farm management area? 5. Does the FMAg/S identify the fish farm site(s) to which it applies? 6. Does the FMAg/S identify the date of commencement of the agreement or statement? 7. Does the FMAg/S identify the date of review? Arrangements for Fish Health Management 8. Does the FMAg/S identify the minimum health standards for the stocks to be introduced to the area or farm? 9. Does the FMAg/S identify the vaccination requirements for stocks held in the area or farm? 10. Does the FMAg/S identify the maximum stocking density of any pen on any farm in the area or the individual farm? 12. Does the FMAg/S identify the maximum stocking density of any pen on any farm in the area or the individual farm? Arrangements for The Management of Sea Lice 13. Does the FMAg/S identify the availability and the use of medicines on farms covered by the agreement of statement? 14. Does the FMAg/S identify the availability and the use of medicines on farms covered by the agreement of statement? 15. Does the FMAg/S identify the availability and the use of medicines on farms covered by the agreement of statement? 16. Does the FMAg/S identify the circumstances under which biological controls and cleaner fish are to be used on farms in the area or individual farms? 17. Does the FMAg/S identify the circumstances under which biological controls and cleaner fish are to be used on farms in the area or individual farms? 17. Does the FMAg/S identify the circumstances under which biological controls and cleaner fish are to be used on farms in the area or individual farms? 18. D	FHI 059, Version 12		Issued by: FHI		Date of issue: 08/10/2018
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10. Does the FMAg/S identify the species of fish which may be stocked into the area or farm? 11. Does the FMAg/S identify the maximum stocking density of any pen on any farm in the area or the individual farm? 12. Does the FMAg/S identify the arrangements for the storage and disposal of any dead fish from any fish farm in the area or the individual farm? Arrangements for The Management of Sea Lice 13. Does the FMAg/S identify arrangements for the sharing of data on sea lice numbers and treatments? 14. Does the FMAg/S identify the availability and the use of medicines on farms covered by the agreement of statement? 15. Does the FMAg/S identify any requirements for the sensitivity testing of available treatments for sea lice on farms in the area or individual farms? 16. Does the FMAg/S identify the circumstances under which biological controls and cleaner fish are to be used on farms in the area or individual farms? 17. Does the FMAg/S identify the arrangements for synchronous treatments on farms within the area? Live Fish Movements 18. Does the FMAg/S identify the circumstances when live fish may be introduced or removed from the area or farm?		the minimum health st	andards for the stocks to	o be introduced to the area	or Y
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Live Fish Movements 18. Does the FMAg/S identify the circumstances when live fish may be introduced or removed from the area or farm?			nder which biological cor	ntrols and cleaner fish are t	
18. Does the FMAg/S identify the circumstances when live fish may be introduced or removed from the area or farm?	17. Does the FMAg/S identify	/ the arrangements for	synchronous treatments	s on farms within the area?	Y
area or farm?	Live Fish Movements				
or individual farms?	area or farm? 19. Does the FMAg/S identify				

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Harvesting		
20. Does the FMAg/S identify acceptable	harvest practices on farms in the area or individ	dual farms?
Fallowing		
21. Does the FMAg/S identify the dates by date when a farm or area may be restock	y which the area or individual farm will be fallow ed?	/ and the earliest Y
22. Does the FMAg/S identify whether one agreement or statement?	e or more year classes may be stocked onto sit	tes covered by the Y
23. Does the FMAg/S identify whether brocovered by the agreement or statement?	podstock or potential broodstock are to be kept	on any site
Point of Compliance for Farm Manager	ment Agreements Only	
24. Does the farm management agreeme parties to the agreement?	ent include arrangements for persons to become	e, or cease to be,
Management and operation		
25. Is the fish farm being managed and o	perated in accordance with the agreement or st	tatement?
26. What is the version no/date of issue of	of the FMAg/S?	

Case No:	2018-0557			Date of visit:	08/11/2018			
0430 110.	2010 0001			Date of Visit.	00/11/2010			
Site No:	FS0462			Inspector:				
Results Summary	Freq.	Date of Notification						
ŕ		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
Report Summary								
Case Type	Date	Insp	2 nd Insp					
			2 insp					
ECI, CNI, SLI Case closed	16/01/2018 04/03/2019	_						
Case closed	04/03/2019							





Kames Fish Farming Ltd Kilmelford Oban Argyll PA34 4XA

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0134 Date of Visit 08/11/2018
Site No FS0462 Site Name Kames Bay (east)
INSPECTOR Case No 20180557

Case completion report

Recommendations in relation to the above case were made for implementation by 16^h February 2019. Following submission of the required documentation, evidence has now been provided to Marine Scotland to demonstrate that the recommendations have been implemented.

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

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

Signed: Date: 04/03/2019
Fish Health Inspector





Kames Fish Farming Ltd Kilmelford Oban Argyll PA34 4XA

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0134 SITE NO FS0462 INSPECTOR DATE OF VISIT 08/11/2018
SITE NAME Kames Bay (east)

CASE No 20180557

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, and to meet the requirements of European Community Council Directive 2006/88/EC.

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:

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.

R25

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

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

A site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation was not available for inspection.

The farm management agreement/statement available was for the previous cycle of fish. A statement for the current fish input was not available for inspection.

A copy of site specific lice management procedures and a current farm management agreement/statement must be submitted to the Fish Health Inspectorate for inspection by 16th February 2019.

Records or documentation demonstrating that these points have been addressed should be sent to the Fish Health Inspectorate (contact details below). The site may be subject to further inspection or enforcement action should the appropriate action regarding the above points not be taken within the time period stipulated.

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

Date: 16/01/2019

Signed:

Fish Health Inspector

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2018-0592			Date of visit: 13/11/2018
Time spent on site:	hours	Main Inspecto	r:
Site No: FS0537 Business No: FB0007	Site Name: Business Name:	Invicta Trout Invicta Trout Ltd	
Case Types: 1 ECI 2	CNI 3	55	6
Water Temp (°C): 9.5	Thermometer No:	T172	FHI 045 completed
Observations:	Region: DG	Water type: F	CoGP MA
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	N If yes, see additional infor	mation/clinical score sheet. mation/clinical score sheet. mation/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit deta	ail reason below:	

Additional Case Information:

RTR ova to arrive on Friday, all female Movement record to be filled in and sent within 2 weeks.

Brown trout stripped each year for eggs. Eggs fertilised and placed in the hatchery on site.

FHI 059, Version 12			Issı	ued by: FHI			Date of issu	ie: 08/10/2018
Case No:	2018-0592		Site No:	FS0537]			
Date of Visit:		13/11/201	18		Inspector(s):]
Registration/Autho	risation Det	ails						
1. Business/site deta	ails summary	checked by	site represent	ative?			Υ	1
2. Changes made to	details?						N	
Site Details								
Total No facilities		47	Facilities sto	ocked	35	No facilities	s inspected	47
Species	RTR	RTR	TRO	T	1			
Age group	2016-2017	2018	2014					
No Fish	55,993	73,524	10					
Mean Fish Wt	583g	67g	2kg					
Next Fallow Date (Si	ite)	No plans		Next Input Da	ate (Site)	Friday		
					7			
Recent (last 4 wks)	disease probl	lems?		N	Any escapes	s (since last v	/isit)?	N
If yes, detail:								
Movement Records	5							
1. Movement record		r inspection	?					Y
2. Date of last inspec							21/11/2017	
3. Are records comp		ectly entered	1?					N
4. Are movement red				?				Y
5. Are records comp	lete and corr	ectly entered	: ?					Y
6. Are health certification		•		able?				Y
Transport Records								
1. Are any movemen	nts carried ou	it by (or on b	ehalf) of the b	usiness (not us	ing a STB)?			Y
If yes, is there a syst	tem in place f	ior maintena	nce of transpo	rtation records	?			Y
Mortality Records								
1. Mortality records a	available for i	nspection?						Y
2. How are mortalitie	es disposed o	of?			Whole fish -	Dundas Che	micals	
If other detail:								
3. Mortality records of	complete and	correctly er	itered?					Y
4. Recent mortality (last 4 wks):		230 due to l	background mo	ortality			
5. Evidence of recen	nt increased/a	typical mort	alities?					N
If yes, facility nos/no	mortality per	facility/no st	tock per facility	y/reason:				
6. Any other peaks in If yes, detail:	n mortality du	ring period o	checked?					N
7. Have increased (u	inevalained)	mortalities h	seen reported t	o vet or FHI?				N/A
If yes, detail action:	лехріаніса,	Thortanties 5	cerreported t	o vector i i ii.				
8. Have 'mortality ev	ents' been re	ported to FF	II? If no, add N	IRT case and e	enter on morta	ality events s	heet.	N/A

1. INCOCIN II Califfornia	(last + WKs):			•
If yes, detail:	C	Chloramine T, Florfenico	ol, Formalin	
If other, detail:				
2. Medicines records	available for in	inspection?		Y
3. Are records comp	lete and correc	ctly entered?		Y
4. Are fish in a withdo	rawal period?			Y
5. If yes, what treatm	nent(s)?		Florfenicol	
If other, detail:				
6. Are medicines sto	red appropriate	ely?		Y
Biosecurity Record	s			
1. Biosecurity record		inspection?		Y
			ording and safe disposal been considered?	Y
	•		Scottish Ministers or veterinary professional of any	
	•	at the site been included	* *	Y
` '	,			
4. Has the action tha	t will be taken	in the event that the pre	sence or suspicion of the presence of a listed disease	Y
		•	notified to Scottish Ministers?	
5. Has the health sta	tus of aquacult	lture animals being stock	ked on the farm site been covered (equal or higher	Y
health status, certific	ation if require	ed)?		
6. Have the husband	lry and biosecu	urity measures implemen	nted between each epidemiological unit to minimise	Y
transmission of disea	ase been cover	red (movement of staff,	visitors, equipment, live or dead fish etc.)?	
7. Is documentation	available regar	rding the measures in pl	ace to maintain the physical containment of	Y
aquaculture animals	held on site?			
	rity procedures	been adequately impler	mented on site?	Y
If no, detail:				
Results of Surveilla	ance			
1 Has any animal ha	alth survoillan	nce been carried out by	or on behalf of, the business?	N
2. If yes, are results		•	or off behalf of, the business!	N/A
•		ispection:		N/A
3. Any significant res		ocent disease problems	1	IN/A
ii yes, detaii (ii not de	etaileu unuer re	ecent disease problems).	

FHI 059, Version 12		Issued by: FHI			Date o	of issue	: 08/10/2018
Case Number:	2018-0592		Site No:	FS0537		Insp:	
Date of Visit	13/11/2018		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	$\overline{}$
with GB) of susceptible species		novements on from equivalent zone or	0	9	18	26	9
5,000	Number of sup	ncluding third country pliers	0		10	14	5
Movements off	Frequency of n		1 0		6	10	10
iviovements on	Number of des		0		6	10	10
Exposure via water		Site contacts	s 0	1-5	6-10		
Water contacts with other farms (holding species	disinfection or l	,	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		ш
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		ш
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	g plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro		0				0
	Processing own	n fish (re-cycling risk)	1				
	Processing fish	n from MS of equivalent status	2				
	equivalent stat		4				
	_	n from Category III farm	8				
	Processing fish	n from Category ∨ farm	10				\Box
Disposal of fish and fish by-	Site's own was	te only processed.	0]			0
products	Common proce	esses with other farms	3				$\overline{}$
	Collection poin	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				ш
Biosecurity		Number of sites	s 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		Το	1			0
between sites, use of footbaths etc	No		1	1			-
CoGP/Regulator				•			
Practices in accordance	Yes		0				
with regulator or industry code of practice	No		3				3
Platform access to cages	Yes		0]			0
	No		2	1			
					Total		38
					Rank		HIGH

Case No:	2018-0592		5	Site No:	FS0537]	
Sea Lice Inspection (Seawater Sites Only) nced sea lice problems in the	previous 4 vears	٠?			_	
•	lanagement Area (or equivale	•		a single y	ear class basis?		
3. Does the site have a azamethiphos and ema can these be deployed	access to a range of licenced in amectin benzoate) as well as in a reasonable period of time cumented farm management a	n-feed and bath access to suitab	sea lice medic le biological ar	ations (indo	cluding deltamethrin, hanical control meas		
	ecords available for inspection	? (Legal SSI, Co	GP Annex 6)				
6. Do records adequate	ely reflect the required standar	d specified in th	e SSI and the	CoGP? (L	egal SSI, CoGP Ann	nex 6)	
7. Are sea lice (<i>L. salm</i> records are inspected?	nonis) record levels below the (CoGP Annex 6)	suggested criter	ria for treatmen	nt in the Co	oGP during the perio	d that	
8. Have average adult records are inspected?	female sea lice (<i>L. salmonis</i>)	numbers per fish	h been at a lev	el of 3 or a	above during the per	iod that	
If yes, have these been	reported to the Fish Health Ir	nspectorate? If n	o, FHI see cor	mment.			
9. Is C. elongatus infes	station at a level which is cons	idered to cause	significant wel	fare proble	ems? (CoGP 4.3.81,	5.3.50)	
	reatments been administered of reatment or where <i>C. elongatu</i>						
11. Has any other action	on been taken (where applicab	le)?					
12. Have therapeutic tr	eatments or the actions taken	had a significan	nt impact upon	the lice le	vels recorded?		
13. Are treatments, who	ere conducted, carried out in o	cooperation betw	veen participat	ing farms?	?		
sea lice?	g strategy for the site, where f						
	ific written lice management p scalation of a sea lice infestati		aypoints descr	ibing set a	actions to deal with re	ecognised	
16. Do the sea lice leve	els observed on stocks reflect	sea lice count da	ata? If no pleas	se detail r	easons.		
Containment Inspecti	on						
1. Has the site experier	nced equipment damage due	to predators in th	he current or p	revious pr	oduction cycles?	Υ	
2. Are measures in place	ce to mitigate against the pred	lation experience	ed on site? (De	etail below	')	Υ	
Strings over the site	to deter piscivorous bird, el	ectric fences (t	o deter otters	and min	k), rat and mink tra	aps on site, r	metal cr
If other, detail below:							
Have escape incide	nts or events been experience	ed on or in the vi	cinity of the sit	e since the	e last FHI inspection	? N	
•	estions 4 – 9. If No skip to que		·		·	_	
	ported to Scottish Ministers?						
5. Have these been rep	ported to local DSFB forthwith	(where they exis	st)? (CoGP – 4	4.4.37, 5.4	1.17)		
6. Have these been rep	ported to the SSPO and local f	isheries trusts fo	orthwith (where	they exis	t)? (CoGP – 4.4.37,	5.4.17)	
7. Were methods (if an	y) used to recover escapees?	If yes give detai	il				
8. If gill nets were deplo Ministers? (Legal, CoG	oyed was this action agreed w P – 4.4.38, 5.4.18)	ith local wild fish	n interests and	was perm	ission given by Scot	tish	
, -	en to prevent and minimise th	e risk of further	escapes? (Not	covered i	n code but could		
	r satisfactory measures of t						
	d as satisfactory with regards	ŕ	If no, please of	letail reas	on(s)	Y	

Issued by: FHI

Date of issue: 08/10/2018

FHI 059, Version 12

Case No:	2018-0592			Date of visit:	13/11/2018					
						•				
Site No:	FS0537			Inspector:		1				
Results Summary	Freq.			Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp		
	+				-					
	+				-					
	+									
Report Summary				1						
Case Type	Date	Insp	2 nd Insp							
ECI, CNI	23/11/2018		2 11150							
Warning letter	10/01/2018									
Case completion	21/02/2019									





Invicta Trout Ltd Newtonairds Dumfries Dumfries and Galloway DG2 0JL

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0007 Site No FS0537 Inspector Andy Mayes DATE OF VISIT 14/11/2018
SITE NAME Invicta Trout
CASE NO 20180592

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, and to meet the requirements of European Community Council Directive 2006/88/EC.

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 high. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted annually. 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:

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

Mortality records were inspected and found to be adequately maintained.

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

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

Medicine records were inspected and found to be adequately maintained.

Aquaculture animal and aquaculture animal product movement records were not available for inspection.

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

In accordance with regulation 6(2)(a)(i) of the 2009 Regulations, the operator of the APB must maintain, and make available for inspection upon request by an inspector, a record of the movement of any aquaculture animal or any aquaculture animal product into or out of every farm site operated by the APB. The record must be updated within 24 hours of any aquaculture animal or aquaculture animal product movement, and the record must be retained for a period of four years from the date of the movement.

Although a records of aquaculture animals was available for inspection, it did not contain the information below:

- a) Whether the movement is on or off site;
- b) The species of aquaculture animal moved,
- c) The stage of development that the aquaculture animal or physical state that the product was in at the time of transfer-
 - In the case of fish other than Atlantic salmon the development stage should be classed as either ova; LVG (fish weighing less than 5 grams); MVG (fish weighing more than 5 grams); dead (for harvest) or waste;
- d) The name of the source of fish or products moved on to the site or the name of the destination of fish or products moved off of the site. This should include company name, site name and registered site number, e.g. to Scottish Smolt, Glen Bay (FS2100) or from Scottish Smolt, Loch Mutch (FS2000);
- e) Name of the carrier(s);
- f) Method of transport, including registered name of vessel and/or registration of vehicle used;
- g) A record of whether the movement involved the collection of aquaculture animals or aquaculture animal products from multiple source sites or whether the movement involved the delivery of aquaculture animals or aquaculture animal products to multiple destination sites. This should include the details of the multiple source sites or destination sites involved in the movement; and
- h) A record of whether the movement involved the exchange of water whilst the vehicle or vessel used for transport was present on the farm site. This should include details of the source(s) of water exchanged and any treatment carried out on the water prior to discharge.

The movement book supplied by Marine Scotland maybe used to records the information above, or it may be recorded in another format.

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

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory.

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

Signed: Date: 23/11/2018

Fish Health Inspector





Invicta Trout Ltd Newtonairds Dumfries Dumfries and Galloway DG2 0JL

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0007
SITE NO FS0537
INSPECTOR

DATE OF VISIT 14/11/2018
SITE NAME Invicta Trout
CASE NO 20180592

Case completion report

Recommendations in relation to the above case were made for implementation by 11/02/19. Following submission of the required documentation, evidence has now been provided to Marine Scotland to demonstrate that the recommendations have been implemented.

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

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

Signed: Fish Health Inspector

Date: 21/02/2019

FHI 059, Version 12		Issued by: FHI	Date of issue: 08/10/2018
Case No: 2018-0642			Date of visit: 27/11/2018
Time spent on site:	hrs	Main Ins	spector:
Site No: FS0237 Business No: FB0119	Site Name: Business Name:	Gorsten Marine Harvest (Scotland	d) Ltd
Case Types: 1 REP	2 DIA 3	4 5	6
Water Temp (°C): 11.4	Thermometer No:	T148	FHI 045 completed
Observations:	Region: HI	Water type: S	CoGP MA M-33
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?		Y If yes, see additiona	I information/clinical score sheet. I information/clinical score sheet. I information/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit deta	ail reason below:	

Additional Case Information:

Site inspected after report of increased mortality due to Pasturella skyensis. CMS found on site by PCR on 29/10/18 but company vet not seeing signs.

Fish showing physical damage due to the larger pens and not helped by a strong tidal current. Company putting a buffer system in place which will consist of 2 x 80m wide nets to the north side of the site.

Seals and otters also causing damage. A new acoustic system has recently been installed and is starting to make a difference. No sea lice visible on the fish sampled. All 12 pens have wrasse (locally wild caught) while 2 pens also have farmed lumpsuckers.

Lumpsuckers treated with Florocal (21/11/18) so all fish in withdrawal period for 150 degree days.

Increase in mortalities noticed on site at the end of September. Main cause of increase has been put down to Pasturella skyensis and physical damage

Pens 1 - 10 holding 2018 Q1 SAL. Mortalities varying with a between 4,005 in pen 1 over last 4 weeks to 895 in pen 3. Pen 1 worst affected, pens 2, 6 & 10 also highly affected. Pens 5, 7 & 8 avg. mortality of 1,625 over last 4 weeks. Remaining pens averaging 994 over last 4 weeks.

Pens 11 & 12 holding 2017 Q4 SAL and mortalities have remained low over the last 4 weeks with an average of 214/week Total on site mortality percentage has not been above reporting threshold and numbers have stabilised.

Company has decided to increase mort removal to twice/day, divers also in twice/week to combat problem. Morts usually incinerated on site but increase has led to a skip being placed at the shore base and then taken to Dundas Chemicals.

FHI 059, Version 12		_	lss	sued by: FHI	_	Dat	te of issue:	08/10/2018
Case No:	2018-0642		Site No:	FS0237]			
Date of Visit:		27/11/201	8		Inspector(s):	-	\neg	
Registration/Autho 1. Business/site deta 2. Changes made to	ails summary		site represen	ntative?		Y Y		
Site Details		40	7	to also d	40	T N1 - 6 200 2		,
Total No facilities Species	CAL	12	Facilities st		12	No facilities ins	spected 1	12
•	SAL 2017 Q4	SAL 2018 Q1	WRS MIX	LUM MIX				
Age group								
No Fish	93,000	678,000	33,200	4,200				
Mean Fish Wt	3 Kg	2 Kg	N/A	N/A				
Next Fallow Date (Si	ite)	Sept. 2019		Next Input Da	ate (Site)	Dec. 2019		
Decemb (least 4 volve)	-li	2		V	1,	(-i l4 . :i-i4)	<u> </u>	
Recent (last 4 wks) of			irmed on site		Any escapes	(since last visit)	?	V
If yes, detail:	Pasturella si	tyensis conf	irmed on site	by PCR.				
 Date of last inspect Are records comp Are movement records comp Are records comp Are health certification 	lete and corre cords availab lete and corre	le for dead f ectly entered	ish and waste d?			10/1	09/2017	Y Y Y N/A
Transport Records 1. Are any movement If yes, is there a systematical systems.	nts carried ou		•	•	_		E	
Mortality Records							_	
1. Mortality records a		•						Y
2. How are mortalitie	s disposed o	f?			Whole fish -	Dundas Chemic	als	
If other detail:								V
3. Mortality records of		correctly en						Y
4. Recent mortality (•			75%) for whole s	ite for last 4 w	/eeks		
5. Evidence of recen		••					L	Y
If yes, facility nos/no		_	•	ty/reason:				
Pens 1 (4005), 2 (27								N.
6. Any other peaks in	n mortality du	ring period o	checked?					N
If yes, detail:				4 TIIIO				V
7. Have increased (u	inexplained)							I
If yes, detail action:	onto' boon ro		rate of mort re		ontor on morta	lity ayanta shoot		V

FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Recent treatments (last 4 wks)? If yes, detail: Florfenic	col	Y
If other, detail: 2. Medicines records available for inspection	on?	
3. Are records complete and correctly ente		Y
4. Are fish in a withdrawal period?		Y
5. If yes, what treatment(s)?	Florfenicol	
If other, detail: 6. Are medicines stored appropriately?		Y
Biosecurity Records		
 Biosecurity records available for inspecting. Has the manner and frequency of morta 	lity removal, recording and safe disposal bee APB will notify Scottish Ministers or veterina	
	vent that the presence or suspicion of the present that will be notified to Scottish Ministers'	
5. Has the health status of aquaculture animelealth status, certification if required)?	mals being stocked on the farm site been co	overed (equal or higher
•	asures implemented between each epidemic	
7. Is documentation available regarding the aquaculture animals held on site?	e measures in place to maintain the physical	containment of
8. Have the biosecurity procedures been a lf no, detail:	dequately implemented on site?	
Results of Surveillance		

18/09/2017 - 27/11/2018

External signs lethargy, pale gills, exopthalmia

1. Has any animal health surveillance been carried out by, or on behalf of, the business?

Internal signs of asites, haemorrhage on swim bladder and spleens slightly swollen.

2. If yes, are results available for inspection?

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

Records checked between:

3. Any significant results?

	11 009, VEISION 12							issued by.			
	Case no:	2018-0	642	Site No:		FS0237		Date of Samplin		27/11/2018	27/
	Priority samples:	VI		ВА		PA		MG	g. HI	\Rightarrow	
	Time sampling starts/ends:		80:00		0:00		Inspector:			/MD No.	0
	Environmental conditions:	1	Indoors	2		3	_	4	5		
	Summary samples	HIST	Υ	ВА	Υ	MG	Y	Y	PA	Total Sa	imples
										_	
A	dd Fish/Pools - click										
	Pool/Fish No	F1	F2	F3	F4	F5	P1 I				
	Fish nos	1	2	3		5	1-5				
	Pool Group	P1	P1	P1		P1					
	Species	SAL	SAL	SAL		SAL	SAL				
	Average weight	2Kg	2Kg	2Kg	2Kg	2Kg					
	Sex	N/A	N/A	N/A		N/A	N/A				
	Water Type	SW	SW	SW	SW	SW	SW				
		<u>.</u> 0	<u>.</u> 0	<u>.</u> 0	<u>.</u> 0	<u>.</u>	<u>.</u> 0				
ails		Ŗ	Arkaig	Arkaig	rka	rka	rka				
Details		٩	Ā	۸۲	٩	۸	4				
쏭	Stock Origin	och Arkaig	Loch	Loch	Loch Arkaig	Loch Arkaig	Loch Arkaig				
Stock	Facility No	1	1			8					
U)	,										

Fish had been dead 90 minutes prior to sampling.												

FHI 059, Version 12 Issued by: FHI Date of issue: 08/10/2018 Method of killing: Percussive Case no: Site No: FS0237 2018-0642 Inspector(s): Sheet Relevant: Y Date of visit: 27/11/2018 S for strong presence: M for medium presence: W for weak presence 90 90 Time sampled after death (if > 45 minutes) External Signs Behaviour Moribund Lethargic M M М Hanging vertical Spiralling Flashing Loss of equilibrium Body Dark Distended abdomen 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 Clear Ascites Bloody Oedema In tissues W М Heart Pale/anaemic Granulomas Deformed Liver Petechial haem Gross haem Tissue breakdown Enlarged Colour number(s) Granulomas Lesions М 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 M М M М Fluid filled Kidney Swollen Grey Granular Liquefied Parasites present General

Anaemia

Case no: 2018-0642

Date of visit: 27/11/2018

		_						
S for strong presen Fish Number	ce: M for medium presence: W fo	ги	_	_	_			
	er death (if > 45 minutes)							
External Signs	er death (ii > 45 illillidtes)							
Behaviour Separate	Moribund							
Donaviour	Lethargic							
	Hanging vertical							
	Spiralling							
	Flashing							
	Loss of equilibrium							
Body	Dark							
	Distended abdomen							
	Anorexic							
	Scale Oedema							
Opercula	Shortened							
	Flared							
Haemorrhaging	Throat	$\overline{}$						
	Ventrum							
	Base of fins Elsewhere							
Eves	Exewnere Exophthalmic							
Eyes	Enophthalmic (sunken)							
	Cataract							
	Haemorrhagic							
Gills	Pale							
	Zoned							
	Necrotic							
Lesions	Flank							
	Elsewhere							
Vent	Inflamed							
	Trailing faeces							
Lice Load	Estimate numbers							
Internal Signs								
Ascites	Clear							
	Bloody							
Oedema	In tissues							
Heart	Pale/anaemic	$\overline{}$						
	Granulomas Deformed	-						
Liver	Petechial haem	-						
LIVEI	Gross haem							
	Tissue breakdown							
	Enlarged							
	Colour number(s)							
	Granulomas							
	Lesions							
Pyloric caeca	Petechial haem							
	Tubules mauve							
	Lack of fat							
Spleen	Enlarged							
	Granulomas							
Gut	No food present							
	Yellow pseudo-faeces							
	External haem							
	Internal haem							
Body wall	Haemorrhaging							
Swim bladder	Haemorrhaging							
IV: I	Fluid filled							
Kidney	Swollen							
	Grey							
	Granular Liquefied							
General	Parasites present							
Selleral	Anaemia							
	Allacilla							

Site No: FS0237

Case No: 2018-0642

Nature of non-compliance:
Action taken (FHI):
Non-compliance relevant to (delete): VirologyMolGen/Bacteriology/Histology/Parasitology

Case No:	2018-0642			Date of visit:	27/11/2018	3						
Site No:	FS0237 Inspector:											
Results Summary	Freq.	Date of Notification										
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp				
MG IHN	0/1	04/12/2018		10/12/2018								
MG IPN	0/1	04/12/2018		10/12/2018								
MG ISA	0/1	04/12/2018		10/12/2018								
MG SAV	0/1	04/12/2018		10/12/2018								
MG VHS	0/1	04/12/2018		10/12/2018								
ADHE	5/5	10/12/2018		10/12/2018								
HPAT	3/5	10/12/2018		10/12/2018								
SPAT	2/5	10/12/2018		10/12/2018								
LPAT	5/5	10/12/2018		10/12/2018								
PMCH	5/5	10/12/2018		10/12/2018		1	1					
KPAT	1/5	10/12/2018		10/12/2018								
Pasturella Skyensis	2/5	10/12/2018		10/12/2018				1				
Vibrio Sp	5/5	13/12/2018		13/12/2018								
'				ì			1	1				
							1					
							1					
							_					
							1					
				1			1	1				
D10				1								
Report Summary	D (nd	4								
Case Type DIA	Date	Insp	2 nd Insp	4								
DIA	11/03/2018											





Mowi Scotland Ltd Stob Ban House Glen Nevis Business Park Fort William PH33 6RX

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0119
 Date of Visit
 27/11/2018

 Site No
 FS0237
 Site Name
 Gorsten

 Inspector
 Case No
 20180642

Section 1: Summary

The above site was inspected following a report from Mowi Scotland (formerly known as Marine Harvest) of a recent increase in mortalities. On inspection of the site, a small number of fish appeared lethargic. Five lethargic fish were removed for examination and subsequent diagnostic sampling.

Histopathology examination revealed mild systemic granulomatous inflammation with features resembling Pasteurella skyensis-like infection. This was confirmed by the isolation of *Pasteurella skyensis* in bacteriology. Mild multifocal hepatic necrosis, splenic necrosis and peritonitis likely associated with vaccine administration were also noted.

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 stocked with 93,000 2017 Q4 and 6778,000 2018 Q1 Atlantic salmon with an average weight of 3 and 2 kg respectively. The mortality rate increased in late October but had not been above reporting threshold and has since stabilised. *Pasturella skyensis* had been confirmed on site by PCR prior to inspection. Only the 2018 Q1 stock appear to have been affected, mortality levels in the 2017 Q4 stock remained low throughout.

During the inspection a number of lethargic Atlantic salmon were observed. Five lethargic fish were removed from the pens for further examination and subsequent diagnostic sampling.

Internally the hearts of fish 2 and 4 were pale/anaemic. Petechial haemorrhaging was evident on the livers of fish 1,2 and 3 as well as on the pyloric caeca of fish 1 and 2. Haemorrhaging was also evident on the swim bladder of fish 1, 2, 3 and 4. Fluid was also present in the heart cavity of fish 1, 2 and 4.

Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
1 & 2	1	1	Atlantic salmon	2 kg/ 2018 Q1	Loch Arkaig
3	1	3	Atlantic salmon	2 kg/ 2018 Q1	Loch Arkaig
4	1	6	Atlantic salmon	2 kg/ 2018 Q1	Loch Arkaig
5	1	8	Atlantic salmon	2 kg/ 2018 Q1	Loch Arkaig

Results

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

The following bacteria were isolated:

Vibrio sp. (kidney: 3/5 fish; gill: 5/5 fish)Pasteurella skyensis (kidney: 2/5 fish)

The level and purity of growth of the isolated *Vibrio* sp. would not suggest the bacterium was a primary cause of morbidity.

DNA from the Pasteurella skyensis-like colony was extracted and sequenced. The results showed the isolate to have a 99% similarity to *Pasteurella skyensis* strains 98B1 and 01A1.

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

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

Histopathological examination revealed the following:

<u>Gill</u>: Mild interlamellar hyperplasia noted mainly at the tip of the gill filament (F4) and one granuloma-like structure at the centre of the gill filament noted in F5. Few scattered aneurysmal dilation/telangiectasia noted in all fish. Generalized epithelial lifting likely associated with postmortem artefact.

R09

<u>Skin & Muscle</u>: Occasional degeneration of white fibres were noted in F3 & F4 and also noted in F4 some fibrosis among the muscle bundle.

<u>Heart</u>: Mild multifocal cell infiltration and small foci of fibre degeneration (F1 & F2) at the spongy layer of ventricle. F4 also showed foci of fibre degeneration and mild leucocyte cell infiltration on the compact layer. Mild to marked pericarditis with deposits of amorphous eosinophilic material resembling fibrin and leucocyte infiltration also noted (F1, F2 & F4).

<u>Gut and pyloric caeca</u>: Some fold congestion in the hindgut and mild haemorrhage noted in abdominal adipose tissue of (F1). Some fibrous adhesions (likely associated with vaccine administration) (F1 - F5), being more marked in F5 which showed granuloma-like structures with giant cells present.

Pancreas: Within normal range.

<u>Liver</u>: Moderate multifocal hepatocyte necrosis (F1 & F2), mild diffuse hepatocyte vacuolation (F2), mild multifocal hepatic fibrosis (F4) and thickness of hepatic serosa with deposits of amorphous eosinophilic material resembling fibrin (F1 - F4). F5 showed a granuloma-like structure with associated giant cells.

<u>Kidney</u>: Several granuloma-like structure with associated giant cells and centrally splendore-hoeppli material (homogeneous eosinophilic material) (F5).

<u>Spleen</u>: Diffuse necrosis of white pulp and small granuloma-like structure noted in F1. F5 showed several granuloma-like structures with associated giant cells. The structures showed centrally splendore-hoeppli material (homogeneous eosinophilic material). Thickness of splenic serosa also noted and F2 spleen was slightly congested.

Signed:

Fish Health Inspector

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

Date: 11/03/2019



Figure 1 - Fish 1



Figure 2 - Fish 1



Figure 3 - Fish 1



Figure 4 - Fish 2



Figure 5 - Fish 2



Figure 6 - Fish 2



Figure 7 - Fish 2



Figure 8 - Fish 2



Figure 9 - Fish 3



Figure 10 - Fish 3



Figure 11 - Fish 4



Figure 12 - Fish 4



Figure 13 - Fish 4



Figure 14 - Fish 4



Figure 15 - Fish 4



Figure 16 - Fish 5



Figure 17 - Fish 5



Figure 18 - Fish 5