FHI 059, Version 12		Issued by: FHI	Γ	Date of issue: 08/10/2018				
Case No: 2020-0116			Date of	visit: 10/03/2020				
Time spent on site:	hours	Ma	ain Inspector:					
Site No: FS0015 Business No: FB0119	Site Name: Business Name:	Loch Greshornish Mowi Scotland Ltd						
Case Types: 1 ECI	2 CNI 3 SLI	4 VMD 5	DIA 6					
Water Temp (°C): 7.6	Thermometer No:	T146	FHI 045	completed				
Observations:	Region: HI	Water type:	S CoGI	P MA M-24				
Dead/weak/abnormally behaving fish present? Clinical signs of disease observed? Gross pathology observed? Diagnostic samples taken? Y If yes, see additional information/clinical score sheet. Y If yes, see additional information/clinical score sheet. Y If yes, see additional information/clinical score sheet.								
UNI/REG only - if unable to carry	JNI/REG only - if unable to carry out intended visit detail reason below:							

Additional Case Information:

28/10/2019 1.4 kg 2.06% AGD + AGD treatments 15297 30/12/2019 2kg 3.07% Mechanical lice treatment in fish affected by AGD 21445 06/01/2020 2.1kg 2.21% Mechanical lice treatment in fish affected by AGD 14961 27/01/2020 2.3 kg 1.94% Treatment related mortality 12752 03/02/2020 2.4 kg 1.11% Treatment related mortality + AGD 7129 10/02/2020 2.48 kg 1.09% Treatment related mortality + AGD 6922 17/02/2020 2.48 kg 1.2% Treatment related mortality + AGD 7547

Lump fish input from ROI and Anglesey (Ocean Matters)

ERM - starting antibiotic treatment on Monday. Biomar supplying premixed Florfenicol. Observing lethargic fish with haemorrhaging internally. Mowil vet diag ERM.

All fish input from Lochailort Feb/March 2019. Fish moved off site to Noster in May 2019.

Input of lumpfish from ROI not in movement record book. Transport cert was available, input 28/2/20. Input 23/2/20 from Ocean Matters was in book.

Send out new movement book - sent 17/3/20

Mort disposal; Currently skipped and removed by Billy Bowie to Dundas Chemical, Moss Pary, Dumfries. Normal practice would be incineration on site.

On inspection in excess of 30 moribund fish observed in each pen, about 10% of these moribund fish with dorsal lesions mainly behind dorsal fin.

2/2/20-10/3/20; 8789 morts for last 7 days attributed to ERM. 23/2- 1/3 10093 morts attributed to treatment and ERM 15/2-22/2 7547 morts attributed to AGD and treatment.

No treatments this month (March). Last month (Feb); Extended FW treatment across site. Pens 4,11, 3, 5, and 2 treated with salmosan in Feb 2020.

Mort records available for cleaner fish; 133 morts in past week attributed to handling. Approx. 2500 morts from 1/1/20 to 10/3/20. Cleaner fish stocked at 12%.

VHP states fish will be vaccinated for ERM, Furunc, Moritella

Contact with site manager 19/3/20 for update; Movement book has been updated. Lump fish are netted out from the crowded fish prior to being pumped onto wellboat for FW treatments. Discussed the antibiotic treatment and the non-feeding moribund fish. Increased effort to remove moribund from the site, health team on site this week for further testing and investigate lesions observed in the fish. Have seen a drop in appetite from population. Confirmed the fish are not vaccinated for ERM.

Last lice count 9/3/20; Site average; gravid female; 0.16, females; 0.15, males; 0.15, pre-adults; 0.39, chalimus; 0.61, calagus; 0.01, AGD; 0.46, PGD; 0.52.

Lice figures were higher in Feb but fish were FW and salmosan treated and numbers have now come down. Pre-treatment figures 28 Jan; female gravid; 1.23, females; 0.68, adult males; 0.31, preadults; 0.7, chalimus; 0.52, caligus; 0.18, AGD; 1.11, PGD; 0.42.

FHI 059, Version 12		Issued by: FHI		Date of issue: 08/10/2018
Case No:	2020-0116		Site No:	FS0015
Date of Visit:		10/03/2	020	
Registration/Authorisation Details 1. Business/site details summary checke 2. Changes made to details?	ed by site repre	sentative?		
Site Details				
Total No facilities		12	Facilities	stocked
Species	sal	lumpfish	_	
Age group	2019 Q1	adult		
No Fish	603,000	105,000	_	
Mean Fish Wt	2.8kg	100g		
Next Fallow Date (Site)		Dec 2020		Next Input Da
Pagent (last 4 wks) disease problems?				V
Recent (last 4 wks) disease problems? If yes, detail:	AGD and ER	M		•
Movement Records	NOD and Er			
 Date of last inspection: Are records complete and correctly end. Are movement records available for defections. Are records complete and correctly end. Are health certificates for introductions. Transport Records Are any movements carried out by (or lifyes, is there a system in place for main. 	ead fish and watered? s (outwith GB) on behalf) of t	available? he business (not using a STB)?		
Mortality Records 1. Mortality records available for inspection 2. How are mortalities disposed of? If other detail: 3. Mortality records complete and correct	on?			
Recent mortality (last 4 wks):	ily critered:		see additi	onal info
5. Evidence of recent increased/atypical If yes, facility nos/no mortality per facility/	no stock per fa			
across site, but particularly in pen 6 with	•	D/day morts. 55000 fish in pen.		
 6. Any other peaks in mortality during pe If yes, detail: 7. Have increased (unexplained) mortalit If yes, detail action: 8. Have 'mortality events' been reported 	see additiona ies been repor	ted to vet or FHI? prescribed antibiotics	rtality events si	heet.
The state of the s		The same and office of the		

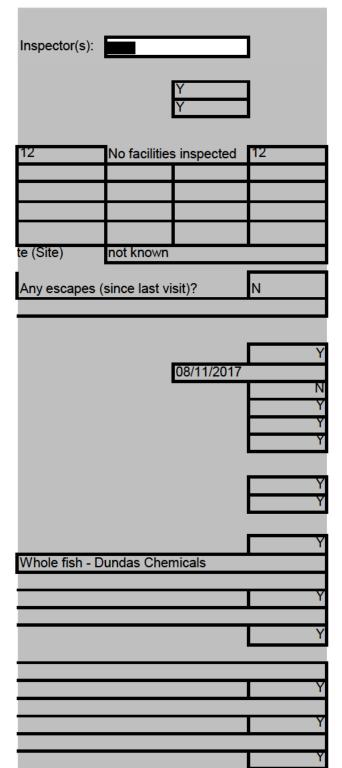
FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
 Recent treatments (last 4 wks)? If yes, detail: If other, detail: Medicines records available for inspecting and correctly entered. Are records complete and correctly entered. Are fish in a withdrawal period? If yes, what treatment(s)? If other, detail: Are medicines stored appropriately? 		salmosan
• •	tion? ality removal, recording and safe disposal be e APB will notify Scottish Ministers or veterina	
4. Has the action that will be taken in the ewhen that will be notified to Scottish Minis	event that the presence or suspicion of the preventers?	resence of a listed disease is det
5. Has the health status of aquaculture an	imals being stocked on the farm site been co	overed (equal or higher health sta
6. Have the husbandry and biosecurity me (movement of staff, visitors, equipment, liv	easures implemented between each epidemi ve or dead fish etc.)?	ological unit to minimise transmi
7. Is documentation available regarding th 8. Have the biosecurity procedures been a If no, detail:	e measures in place to maintain the physica adequately implemented on site?	l containment of aquaculture anii
Results of Surveillance		
Has any animal health surveillance bee If yes, are results available for inspection	n carried out by, or on behalf of, the business	s?

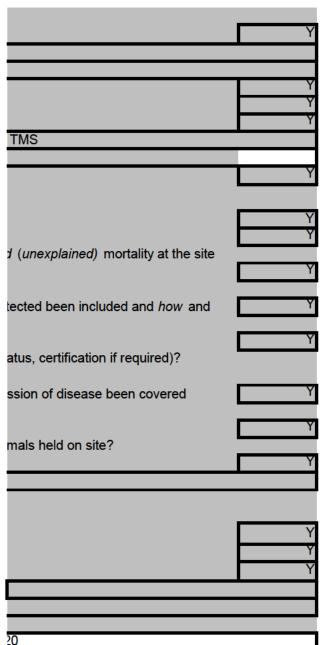
3. Any significant results?

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

Records checked between:

8/11/17-10/3/2





	11 059, VEISION 12							153	sueu by.	ГПІ			
	Case no:	2020-01	116	Site No:		FS0015			Date of Samplin		10/	03/2020	10/0
	Priority samples:	VI		ВА		PA		MG		ig. HI		l	
	Time sampling starts/ends:		0:00		0:00		Inspecto	or:			VMD No	o. [20
	Environmental conditions:	1	Indoors	2		3		4		5			
	Summary samples	HIST	Υ	ВА	Υ	MG	Υ	VI	Υ	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	6	7	8	9		
	Pool Group	P1	P1	P1	P1	P1							
	Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL		
	Average weight	3KG	3KG	3KG	3KG	3KG	3KG	3KG	3KG	3KG	3KG		
	Sex	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A		
	Water Type	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW		
Stock Details	Stock Origin Facility No	Lochailort	n Lochailort	တ Lochailort	Lochailort	ക Lochailort	ക Lochailort	Lochailort	Lochailort	Lochailort	J Lochailort		
S	I acility INO	6	6	0	6	0	0	1	4	8	2		

03/2020	03/2020 Additional Sample Information:												
6	l	Total To	ests ass	igned	5	l							

FHI 059, Version 12 Issued by: FHI Date of issue: 08/10/2018 Method of killing: Percussive Case no: Site No: FS0015 2020-0116 Inspector(s): Sheet Relevant: Y Date of visit: 10/03/2020 S for strong presence: M for medium presence: W for weak presence Time sampled after death (if > 45 minutes) External Signs Behaviour Moribund Lethargic 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 W Zoned Necrotic Lesions Flank Elsewhere Vent Inflamed Trailing faeces Lice Load Estimate numbers Internal Signs Clear Ascites Bloody Oedema In tissues Heart Pale/anaemic Granulomas Deformed Liver Petechial haem

Gross haem Tissue breakdown

Petechial haem Tubules mauve Lack of fat

No food present Yellow pseudo-faeces External haem Internal haem

Haemorrhaging

Haemorrhaging Fluid filled

Swollen
Grey
Granular
Liquefied
Parasites present

Anaemia

Enlarged
Colour number(s)
Granulomas
Lesions

Enlarged Granulomas

Pyloric caeca

Spleen

Body wall

Kidney

General

Swim bladder

Gut

Case no: 2020-0116

Date of visit: 10/03/2020

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

FHI 059, Version 12		Issued I	by: FHI		Date of issue:			: 08/10/2018
Case Number:	2020-0116			Site No:	FS0015		lnsp:	
Date of Visit	10/03/2020			No of mo	ovements/s	upp./dest.		Score
Live fish movements				0	1-5	6-10	>10	
Movements on (from out	Frequency of m	novements on from equiva	lent MS	0	5	10	14	5
with GB) of susceptible species		novements on from equiva	lent zone or	0	9	18	26	$\overline{}$
	Number of sup	ncluding third country		0	5	10	14	5
Movements off	Frequency of m			0	3	6	10	10
iviovements on	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				
susceptible to same diseases)	farms upstream	or in a coastal zone with or within 1 tidal excursion	n	1	2	4		1
	farms upstream	or in a coastal zone with on or within 1 tidal excursion	n	1	3	6		ш
		or in a coastal zone with on or within 1 tidal excursion		1	4	8		ш
Management practices				None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into ad	jacent 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				ш
		from MS of equivalent sta		2				
	equivalent statu		nt of	4				
		from Category III farm		8				$\overline{}$
	Processing fish	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				ш
	Collection poin	t for waste from other farm	ns	5				ш
Use of unpasteurised feeds	No feeding of u	npasteurised feed		0				0
	Feeding unpas	teurised feed		5				ш
Biosecurity		Nur	mber 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		
Disinfection of equipment	Yes			0				0
between sites, use of footbaths etc	No			1				Н
CoGP/Regulator								
Practices in accordance	Yes			0				0
with regulator or industry code of practice	No			3				
Platform access to cages	Yes			0				0
	No			2				
						Total Rank		24 MEDIUM

Case No:	2020-0116	Site No: FS0015				
Sea Lice Inspection (S	••					
•	•	s in the previous 4 years?	N			
	-	equivalent) fallowed synchronously on a single year class basis?	Y			
azamethiphos and ema can these be deployed	mectin benzoate) as in a reasonable period		Y			
Management Area (or e	equivalent)?	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)	Υ			
7. Are sea lice (<i>L. salmo</i> records are inspected?		low the suggested criteria for treatment in the CoGP during the period that	N			
_	•	<i>monis</i>) numbers per fish been at a level of 3 or above (prior to w/b 10/6/19) or od that records are inspected?	N			
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			
•		stered or other actions taken when <i>L. salmonis levels</i> have exceeded the <i>elongatus</i> is considered to have welfare implications? (CoGP 4.3.82, 5.3.51)	Υ			
11. Has any other action	n been taken (where a	applicable)?	Υ			
•	•	is taken had a significant impact upon the lice levels recorded?	Υ			
•			N/A			
13. Are treatments, where conducted, carried out in cooperation between participating farms? N/A 14. Is there a harvesting strategy for the site, where fewer populations or part populations are held without treatment for sea lice?						
15. Is there a site specific scenarios during the es	_	ement procedure with waypoints describing set actions to deal with recognised nfestation?	Y			
16. Do the sea lice leve	ls observed on stocks	reflect sea lice count data? If no please detail reasons.	Υ			
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	e to mitigate against	the predation experienced on site? (Detail below)	Υ			
add, top nets,						
If other, detail below:						
ii ouioi, uotaii boloii.						
3. 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						
4. Have these been rep		•				
		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				
0.16-20-24						
If gill nets were deplo Ministers? (Legal, CoGl		greed with local wild fish interests and was permission given by Scottish				
9. What action was take	en to prevent and min	imise the risk of further escapes? (Not covered in code but could				
be considered under	satisfactory measu	res of the Act)				
10. Is the site inspected	l as satisfactory with r	egards to containment? If no, please detail reason(s)	Υ			

Issued by: FHI

FHI 059, Version 12

Date of issue: 08/10/2018

Case No: 2020-0116 Site No: FS0015 Date of Visit: 10/03/2020 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 fath 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 vaccination requirements for stocks to be introduced to the area or farm? 9. Does the FMAg/S identify the species of fish which may be stocked into 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? Arrangements for The Management of Sea Lice 13. Does the FMAg/S identify arrangements for the storage and disposal of any dead fish from any fish farm in the area or the individual farm? 4. Loes the FMAg/S identify arrangements for the storage and disposal of any dead fish from any fish farm in the area or the individual farm? 4. Loes the FMAg/S identify arrangements for the storage and disposal of any dead fish from any fish farm in the area or individual farm? 14. Does the FMAg/S identify arrangements for the sensitivity testing of available treatments for sea lice on farms in the area or individual farms? 15. 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? 16. Does the FMAg/S identify the arrangements for synchronous treatments on farms within the area? 17. Does the FMAg/S identify the circumstances when live fish may be introduced or removed from the	FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
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FHI 059, Version 12	Issued by: FHI	Date of issue: 08/10/2018
Harvesting		
20. Does the FMAg/S identify acceptable harv	est practices on farms in the area or inc	dividual farms?
Fallowing		
21. Does the FMAg/S identify the dates by whi date when a farm or area may be restocked?	ich the area or individual farm will be fal	llow and the earliest Y
22. Does the FMAg/S identify whether one or agreement or statement?	more year classes may be stocked onto	o sites covered by the
23. Does the FMAg/S identify whether broodst covered by the agreement or statement?	tock or potential broodstock are to be ke	ept on any site
Point of Compliance for Farm Management	Agreements Only	
24. Does the farm management agreement incaparties to the agreement?	clude arrangements for persons to beco	ome, or cease to be, N/A
Management and operation		
25. Is the fish farm being managed and operat	ted in accordance with the agreement o	or statement?
26. What is the version no/date of issue of the	FMAg/S? v19	

Site No: FS0015

Case No: 2020-0116

Nature of non-compliance:
Action taken (FHI):

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

Case No: 2020-0116 Date of visit: 10/03/2020 Site No: FS0015 Inspector: Results Summary Freq. Date of Notification Database Writing Insp Phone Insp Insp 2nd Insp 09/04/2020 MG VHS 16/03/2020 19/03/2020 0/1 5/5 16/03/2020 MG SAL Pox 19/03/2020 09/04/2020 16/03/2020 MG SAV 0/1 19/03/2020 09/04/2020 MG Para Ther 5/5 16/03/2020 19/03/2020 09/04/2020 16/03/2020 09/04/2020 MG ISA 0/1 19/03/2020 19/03/2020 09/04/2020 MG IPN 1/1 16/03/2020 09/04/2020 MG IHN 0/1 16/03/2020 19/03/2020 1/5 19/03/2020 MG AGD 16/03/2020 09/04/2020 **AMGD** 4/5 30/03/2020 09/04/2020 LPAT 5/5 30/03/2020 09/04/2020 **HPAT** 30/03/2020 09/04/2020 1/5 30/03/2020 **GPAT** 4/5 09/04/2020 09/04/2020 YRKH 1/5 30/03/2020 **MPAT** 2/5 30/03/2020 09/04/2020 YRUK 1/5 06/04/2020 09/04/2020 2/5 **VSPE** 06/04/2020 09/04/2020 YRKP 09/04/2020 1/1 31/03/2020 Report Summary 2nd Insp Case Type Date Insp 24/03/2020 ECI,CNI,SLI, VMD DIAG 09/04/2020





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 SITE NO FS0015

INSPECTOR

DATE OF VISIT SITE NAME CASE NO

10/03/2020

Loch Greshornish

20200116

Section 1: Summary

Loch Greshornish was visited following reported increased mortality levels. During the inspection many moribund fish were observed in the pens, several with lesions. Five fish were removed for diagnostic examination.

Histopathology examination revealed mixed gill pathology suggestive of historical amoebic gill disease (AGD) and more recent, mixed gill insult. Oedema and haemorrhage was noted possibly associated with exposure to harmful environmental agents such as cnidarian jellyfish but are also previously documented consequences of enteric redmouth (ERM) in salmonids. Other notable findings included multifocal hepatocellular necrosis, and inflammatory changes to skeletal muscle likely due to bacterial infection.

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

Yersinia ruckeri was isolated by bacteriology and confirmed by QPCR. As a primary fish pathogen it may have been implicated in morbidity, however it was only isolated from kidney material of fish 3. Because of reported issues with Yersinia on site further tests were conducted to establish the sensitivity profiles. From the tests conducted, we do not have evidence of resistance to amoxycillin, oxytetracycline, sulphamethoxazole/trimethoprim or florfenicol. Four separate heavy mixed growths of Vibrio spp. were identified from fish 4 and 5.

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

Loch Greshornish was visited following reported increased mortality levels and to carry out routine EC and VMD inspections. The increased mortality had been attributed to AGD, treatment related issues and more recently, infection with *Yersinia ruckeri*; the causative agent for Enteric Redmouth (ERM). Mortality for the past seven days was 8,789 attributed to *Yersinia* and 10,093 mortalities the week before that. The site staff were awaiting delivery of a pre-mixed antibiotic (florfenicol) feed.

On inspection in excess of 30 moribund fish were observed in each pen. About 10% of the moribund fish had dorsal lesions, mainly behind the dorsal fin. Five of these moribund fish were removed from the worst affected pen and sampled for diagnostic examination.

Externally fish 1-3 were dark in colour. Fish 4 and 5 had a dorsal lesion. Fish 1 exhibited ragged gills with white patches and fish 2 had pale and zoned gills.

Internally fish 4 had clear ascites and petechial haemorrhaging on the liver and pyloric caeca. Fish 3 had haemorrhaging on the swim bladder. Fish 1 and 5 had enlarged gall bladders. Fish 1, 3 and 5 had an enlarged spleens. None of the fish sampled had food in the gut.

Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
1-5	1	6	Atlantic salmon	2019 Q1 kg	Lochailort

Results

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

The following bacteria were isolated from F1-5:

- Vibrio sp. (Isolate A): F5 (Lesion)
- Vibrio sp. (Isolate B): F1 (Kidney); F5 (Lesion)
- Vibrio sp. (Isolate C): F4 (Lesion); F5 (Kidney, lesion)
- Vibrio sp. (Isolate D): F4 (Lesion)
- Yersinia ruckeri: F3 (Kidney)

Four different *Vibrio* spp. were identified on plates taken from lesion material of fish 4 and 5. The growth was heavy, however the mixed nature would not suggest they are likely to be the primary source of 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).

Salmon gill poxvirus

Fish Number	Endogenous control Cp value		Cp Values					
F1	19.91	27.32	27.32	27.41	POSITIVE			
F2	19.91	34.77	33.84	34.48	POSITIVE			
F3	19.92	27.44	27.41	27.33	POSITIVE			
F4	19.88	28.66	28.76	28.73	POSITIVE			
F5	19.44	24.38	24.55	24.45	POSITIVE			

Infectious pancreatic necrosis virus (IPNV)

Pool Number	Endogenous control Cp value		Reported Result (PCR)		
P1	16.47	23.50	23.31	23.40	POSITIVE

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

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

Neoparamoeba perurans (AGD)

Fish Number	Endogenous control Cp value		Reported Result (PCR)		
F1	-	-	-	-	Negative
F2	-	-	-	-	Negative
F3	-	-	-	-	Negative
F4	-	-	-	-	Negative
F5	19.44	33.91	34.14	34.78	POSITIVE

Paranucleospora theridion

Paranucieospora theridion							
Fish Number	Endogenous control Cp value		Reported Result (PCR)				
F1	19.91	24.48	24.64	24.58	POSITIVE		
F2	19.91	28.51	28.57	28.57	POSITIVE		
F3	19.92	31.17	31.27	30.89	POSITIVE		
F4	19.88	22.94	22.92	23.03	POSITIVE		
F5	19.44	24.92	24.95	24.83	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:

Observed pathology varied between individual fish. The gills of F1, F2, F4 and to a lesser extent F3 demonstrated epithelial hyperplasia and lamellar fusion with formation of 'pseudo-cysts' typical of amoeba-associated damage. No amoebic cells were observed. Multifocal haemorrhages were observed in the gills of F3 and F4 with evidence of fibrin accumulation, suggestive of healing. This telangiectasis was therefore not considered artefact, rather a pathological ante-mortem change. Epithelial lifting with proteinaceous fluid accumulation consistent with oedematous change was also observed in F2 and F3. Mucus cells of F5 were observed to contain strongly basophilic granular material.

The hepatocytes of all five fish were depleted of lipid and glycogen but active in their cell division. Multiple regions of hepatic necrosis were observed in F2, with changes consistent with those previously reported for bacterial infections such as ERM (with piscirickettsial infection also being a less likely possibility), however no bacteria were observed in H&E. Multiple discrete foci of hepatocytes with lipoproteinaceous inclusions were observed in F4 alongside hepatocellular necrosis.

Lesions to the muscle layer were observed in F4 and F5. Localised infiltration of the stratum compactum with basophilic, granular material with the appearance of bacterial plaques was present in F4. Focal myositis was noted in F5, with necrotic myofibrillar degeneration and associated phagocytic inflammatory cell infiltration. Focal vasculitis was also noted in the stratum compactum of F5. A single foci of early necrotic change was noted within the cardiomyocytes of the atrium in F3.

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: 09/04/2020





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 SITE NO FS0015 INSPECTOR DATE OF VISIT 10/03/2020
SITE NAME Loch Greshornish
CASE NO 20200116

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

Records

The surveillance frequency category of the site was assessed as 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 found to be inadequately maintained. The most resent input of lumpfish from the Republic of Ireland had not been recorded in the movement records. This has since been added and no further action is required.

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 www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter

Date: 24/03/2020



