FHI 059, Version 13	Iss	sued by: FHI	Date of issue: 12/05/2020
Case No: 2024-0436			Date of visit: 13/11/2024
Time spent on site: 5h	nrs	Main Inspect	or:
Site No: FS1286 Business No: FB0119	Site Name: Business Name:	Muck Mowi Scotland Ltd	
Case Types: 1 ECI 2	2 CNI 3 SLI	4 DIA 5	6
Water Temp (°C): 12.7	Thermometer No:	T172	FHI 045 completed N/A
Observations:	Region: HI	Water type: S	CoGP MA: None
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	Y If yes, see additional info	rmation/clinical score sheet. rmation/clinical score sheet. rmation/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit detail re	eason below:	

Additional Case Information:

Fish were moved on from Etive 6 in September (from DMA 15b to 15e). A RA for the SW to SW movement was available. SRS has been identified on site (particularly liver lesions, rather than external lesions). Antibiotic treatment successfully completed end of October and bacterial load has lessoned. Jellyfish (Apolemia) on site are now the main cause of mortality. Gill damage consistent with PGD but mild. HSMI has also been observed with blood clots around the heart noted. PCRs positive for HSMI, Teancibaculosis and Pisciricettsiosis. Fish have been vaccinated with Alphaject Micro6, PD1 and against Yersinia and Pasteurella.

FW treatments since input with FLS have had good clearance rates.

Although site does not fall within a CoGP MA and so is not required to maintain a FMS, one has been created and was available for inspection. Fallow dates are synchronised on a single year class basis with the sites nearest neighbour, Rum FS1317.

Several moribunds were observed in each of the cages, with more observed in cages 1, 2, 5 and 8. Five fish were removed from across the site for diagnostic sampling. The general population on site appeared in good body condition and were active in the cages with lots of jumping behaviour observed. Fish from cage 4 were removed for a lice count which was observed by the inspector. Very few lice were observed on these fish and they were in good physical condition with some minor damage to fins.

Site manager was informed that the cleanerfish at Etive were culled prior to transfer of salmon to Muck. However, the VHWP and RA stated that wrasse would be transferred with the salmon. Wrasse were observed across the site in several cages and this was raised with the site manager at the time of the inspection. The movement records were updated to include the transfer of cleanerfish to the site and the site manager was reminded that any mortalities must be recorded going forward.

Updated movement records including the transfer of wrasse to site were received 05/12/24.

FHI 059, Version	59, Version 13 Iss				FHI		Date of issue: 12/05/2020		
Case No:	2024-0436	Site No:	FS128	66					
Date of Visit:		13/11/2024			Inspector(s	s):			
Registration//	Authorisatio	n Details	_						
1. Business/sit	e details sun	nmary checked	d by site repre	esentative?		Υ			
2. Changes ma	ade to details	s?				Y			
Site Details (in									
Total No facilit		8	Facilities sto	cked	8	No facilities insp	pected 8		
Species	SAL	WRA							
Age group	24Q1	Wlidcaught							
No Fish	1,087,176	3,354							
Mean Fish Wt	1.15kg	Mixed							
Next Fallow Da	ate (Site)	June 25		Next Input	Date (Site)	Sep/Oct 25			
Recent (last 4	wks) disease	problems?			Y Any escap	es (since last visit)?	N		
If yes, detail:	SRS, HSMI			<u> </u>					
4. Are movements. Are records 6. Are health of the transport Records 1. Are any movements of the transport Records of the	complete an ertificates fo cords vements carr a system in p	d correctly ent r introductions ried out by (or o	ered? (outwith GB) on behalf) of t	available? he business		STB)?	Y N/A		
Mortality rec		le for inspectio	n?				Y		
2. How are mo		•			Ensiled - o	n site			
If other detail:			and taken to	Pelagia					
3. Mortality red	ords comple	te and correctl	y entered?				Y		
4. Recent mor	• `	,	64,152 (5.06	•			2,932 (4.39%), Wk42:		
	5. Evidence of recent increased/atypical mortalities?								
If yes, facility n		, ,							
Mortality has b				d to SRS, H	SMI and env	ironmental.	<u> </u>		
6. Any other pe	Wk40 2024	: 22,330 (2.4%	s), Wk39: 10,2	` '		.6%). Wk31: 2.092	(2.17%), Wk30: 2,021		
		k29: 4,215 (2.6				,,	(-, -, -, -, -, -, -, -, -, -, -, -, -,		
If yes, detail:	Wk38 2022	2: 1,225 (2.11%	6), Wk37: 64,4	473 (15.54%	6), WK36: 98	,953 (13.79%), Wk	35: 16,009 (2.18%)		
7. Have increa	sed (unexpla	ained) mortalitie	es been repor	ted to vet o	r FHI?		N/A		
If yes, detail ad									
8. Have 'morta	lity events' b	een reported to	FHI? If no. e	enter details	on mortality	events sheet.	Y		

Treatments and Medicines Records
1. Recent treatments (see comment)?
If yes, detail: TMS, Florfenicol
If other, detail:
2. Medicines records available for inspection?
3. Are records complete and correctly entered?
4. Are fish in a withdrawal period?
5. If yes, what treatment(s)? TMS, Florfenicol
If other, detail:
6. Are medicines stored appropriately?
Diagonalita Doggado
Biosecurity Records
1. Biosecurity records available for inspection?
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any
increased (unexplained) mortality at the site been included?
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed
disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or
higher health status, certification if required)?
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to
minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish
etc.)?
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?
8. Have the biosecurity procedures been adequately implemented on site?
If no, detail:
in no, astain.
Results of Surveillance
New Yard and the surveillance been carried out by, or on behalf of, the business? Y
2. If yes, are results available for inspection?
3. Any significant results?
If yes, detail (if not detailed under recent disease problems). SRS, HSMI and PGD
Records checked between: 26/04/22 - 13/11/24

HI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2024-0436	Site No:	FS1286
3. Does the site have access to a range of lice	quivalent) fallowed synchronously on a single your control on a single your control on a single your control on the single your control on a single you are single sin	cluding deltamethrin,
	ement agreement or statement relevant to the si	te and CoGP Farm
5. Are sea lice count records available for insp	pection? (Legal SSI, CoGP Annex 6) standard specified in the SSI and the CoGP? (Le	egal SSI, CoGP Annex 6)
7. Are sea lice (<i>L. salmonis</i>) record levels bel ecords are inspected? (CoGP Annex 6)	ow the suggested criteria for treatment in the Co	oGP during the period that
3. Have average adult female sea lice (<i>L. salr</i> or above (from w/b 10/6/19) during the period	nonis) numbers per fish been at a level of 3 or a that records are inspected?	above (prior to w/b 10/6/19) or 2
f yes, have these been reported to the Fish H b. Is <i>C. elongatus</i> infestation at a level which	lealth Inspectorate? If no, FHI see comment. is considered to cause significant welfare proble	ems? (CoGP 4.3.81, 5.3.50)
· ·	stered or other actions taken when <i>L. salmonis l</i> longatus is considered to have welfare implicati	
3. Are treatments, where conducted, carried	pplicable)? s taken had a significant impact upon the lice level out in cooperation between participating farms? where fewer populations or part populations are	N/A
5. Is there a site specific written lice manage scenarios during the escalation of a sea lice in	ment procedure with waypoints describing set a nfestation?	ctions to deal with recognised Y
6. Do the sea lice levels observed on stocks	reflect sea lice count data? If no please detail re	easons. Y
	ge due to predators in the current or previous pro	•
f Yes proceed with questions 4 – 9. If No skip I. Have these been reported to Scottish Minis 5. Have these been reported to local DSFB fo	•	.17)
7. Were methods (if any) used to recover esca	apees? If yes give detail	
Ministers? (Legal, CoGP – 4.4.38, 5.4.18) D. What action was taken to prevent and minimum be considered under satisfactory measures.	mise the risk of further escapes? (Not covered in res of the Act) egards to containment? If no, please detail reasons	n code but could

FHI 059, Version 13		Issued by: FHI	Date o	f issue: 12/05/2020
Case No: 2024-0436	Site No	o: FS1286		
Date of Visit: 13/1	1/2024	Inspector:	1	
Point of Compliance				
1. Is the farm under inspection lo	cated within a	farm management area?		N
If N, no further questions require	completion.			
Points of Compliance for Both 2. Has a current farm manageme 3. Is the current FMAg/S available 4. Does the FMAg/S identify the r 5. Does the FMAg/S identify the r 6. Does the FMAg/S identify the r 7. Does the FMAg/S identify the r	ent agreement e for inspectio elevant farm r ish farm site(s date of comme	or statement (FMAg/S) been prenty or? management area? s) to which it applies? encement of the agreement or sta	pared?	
Arrangements for Fish Health I 8. Does the FMAg/S identify the r farm? 9. Does the FMAg/S identify the r 10. Does the FMAg/S identify the r 11. Does the FMAg/S identify the individual farm? 12. Does the FMAg/S identify the fish farm in the area or the individual remains the remains	vaccination red species of fis maximum sto	quirements for stocks held in the a h which may be stocked into the a ocking density of any pen on any f	area or farm? area or farm? farm in the area or the	
Arrangements for The Manager 13. Does the FMAg/S identify arrangements			umbers and treatments?	
14. Does the FMAg/S identify the agreement of statement?15. Does the FMAg/S identify any lice on farms in the area or individual.16. Does the FMAg/S identify the	requirements dual farms?	s for the sensitivity testing of avail	able treatments for sea	
used on farms in the area or indiv 17. Does the FMAg/S identify the		s for synchronous treatments on f	farms within the area?	
Live Fish Movements 18. Does the FMAg/S identify the area or farm? 19. Does the FMAg/S identify the or individual farms?	circumstance	es when live fish may be introduce	ed or removed from the	

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Harvesting 20. Does the FMAg/S identify acceptable	harvest practices on farms in the area or indivi	dual farms?
date when a farm or area may be restock 22. Does the FMAg/S identify whether or the agreement or statement?	ne or more year classes may be stocked onto si oodstock or potential broodstock are to be kept	tes covered by
Point of Compliance for Farm Manage 24. Does the farm management agreeme parties to the agreement?	ement Agreements Only ent include arrangements for persons to becom	e, or cease to be,
Management and operation 25. Is the fish farm being managed and of 26. What is the version no/date of issue of	operated in accordance with the agreement or softhe FMAg/S?	tatement?

FHI 059, Version 13		Issued by: FHI			Date	of issue	: 12/05/2020
Case Number:	2024-0436		Site No:	FS1286		Insp:	
Date of Visit	13/11/2024		No of m	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of m	novements on from equivalent MS	0	5	10	14	0
with GB) of susceptible species		novements on from equivalent zone or	0	9	18	26	0
SP 50.00	Number of sup	ncluding third country	0			14	0
Mayamanta off			0			10	10
Movements off	Frequency of m		0			10	3
Exposure via water		Site contacts	5 0		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 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				
	Processing own	n fish (re-cycling risk)	1				1
	Processing fish	from MS of equivalent status	2				
		from zone or compartment of	1				
	equivalent statu Processing fish	n from Category III farm	8				
		from Category V farm	10				
Disposal of fish and fish by-	Site's own was	te only processed]]			
products		esses with other farms	0	-			0
		t for waste from other farms	5	-			
	· ·			1			
Use of unpasteurised feeds		Inpasteurised feed	0	_			0
D.	Feeding unpas		5	J	\		
Biosecurity Contacts with other sites	Sites operating	Number of sites from single shorebase	1	1	≥4		0
Contacts with other sites		taff and equipment	0		2		0
Disinfection of equipment	Yes			1			0
between sites, use of footbaths etc	No		1				0
CoGP/Regulator							
Practices in accordance with regulator or industry	Yes		0				0
code of practice	No		3				
Platform access to cages	Yes		0				0
	No		2]			
					Total Rank		15 LOW

	HI 059, Version 13							ISS	suea by: F	- [
	Case no:	2024-04	136	Site No:		FS1286			Date of v		13/1	1/2024	13/
	Priority samples:	VI		ВА		РА		MG		HI			
ı	Time sampling starts/ends: Environmental conditions:		0:00 Indoors		5:00]	Inspecto	or: 4		5	VMD No). [0
	Summary samples	HIST		ВА	Y	MG	Y	VI		PA		Total Sa	ımples
A	add Fish/Pools - click												
	Pool/Fish No	F1	F2		F4	F5							
	Fish nos	1	2	3	4	5							
	Pool Group	P1	P2	P3	P4	P5							
	Species	SAL	SAL	SAL	SAL	SAL							
	Average weight												
	Sex	N/A	N/A	N/A	N/A	N/A							
	Water Type	SW	SW	SW	SW	SW							
Stock Details		Loch Etive 6 FS1288											
Ċ.	Facility No	8	6	1	1	5							

	11/2024 Additional Sample Information:													
	Fish we	ere hum	anely di	spatche	d by pe	rcussive	blow.							
						-								
5		Total T	ests ass	signed	5									

FHI 059, Version 13 Issued by: FHI Date of issue: 12/05/2020 Method of killing: Percussive Case no: 2024-0436 FS1286 Site No: Inspector(s): Sheet Relevant: Y Date of visit: 13/11/2024 S for strong presence: M for medium presence: W for weak presence Fish Number 45 60 Time sampled after death (if > 45 minutes) 105 75 External Signs Behaviour Moribund Lethargic Hanging vertical S Spiralling Flashing Loss of equilibrium M Body Dark W Distended abdomen Anorexic Scale Oedema Shortened Opercula Flared Haemorrhaging **Throat** Ventrum Base of fins **Elsewhere** Eyes Exophthalmic **Enophthalmic (sunken)** Cataract Haemorrhagic W Gills Pale Zoned Necrotic Lesions Flank **Elsewhere** Vent Inflamed Trailing faeces Lice Load Estimate numbers 4 Internal Signs **Ascites** Clear Bloody W Oedema In tissues М Heart Pale/anaemic M S S Granulomas Deformed

Case no: 2024-0436

Date of visit: 13/11/2024										
S for strong preser	nce: M for medium presence: W fo	r v								
Fish Number										
	er death (if > 45 minutes)									
External Signs										
Behaviour	Moribund									
	Lethargic									
	Hanging vertical									
	Spiralling									
	Flashing									
	Loss of equilibrium									
Body	Dark									
	Distended abdomen									
	Anorexic									
Oneneule	Scale Oedema									
Opercula	Shortened Flared									
Haemorrhaging	Throat									
Haemorrhaging	Ventrum									
	Base of fins									
	Elsewhere									
Eyes	Exophthalmic									
_yes	Enophthalmic (sunken)									
	Cataract									
	Haemorrhagic									
Gills	Pale									
Omo	Zoned									
	Necrotic									
Lesions	Flank									
	Elsewhere									
Vent	Inflamed									
	Trailing faeces									
Lice Load	Estimate numbers									
Internal Signs										
Ascites	Clear									
	Bloody									
Oedema	In tissues									
Heart	Pale/anaemic									
	Granulomas									
	Deformed									
Liver	Petechial haem									
	Gross haem									
	Tissue breakdown									
	Enlarged									
	Colour number(s)									
	Granulomas									
	Lesions									
Pyloric caeca	Petechial haem									
	Tubules mauve									
Colonia	Lack of fat									
Spleen	Enlarged									
Cut	Granulomas									
Gut	No food present									
	Yellow pseudo-faeces External haem									
	Internal haem									
Body wall	Haemorrhaging									
Swim bladder	Haemorrhaging									
Owini biaddei	Fluid filled									
Kidney	Swollen									
radioy	Grey									
	Granular									
	Liquefied									
General	Parasites present									
Contoral	Anaemia									
	macinia									

HI 059, Version 13	Issued by: FHI	Date of issue: 12/05/20
dditional comments:		
		I
		l
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Site No: FS1286

Case No: 2024-0436

Nature of non-compliance:

Action taken (FHI):

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

Case No: 2024-0436 Date of visit: 13/11/2024 Site No: FS1286 Inspector: Results Summary Freq. Date of Notification Insp Writing 2nd Insp Database Insp Phone Insp 15/11/2024 MG-P. salmonis 5/5 15/11/2024 MG-P. theridion 5/5 15/11/2024 15/11/2024 MG-SGPV 4/5 15/11/2024 15/11/2024 MG-AGD 0/5 15/11/2024 15/11/2024 MG-ISA 0/5 15/11/2024 15/11/2024 MG-IHN 0/5 15/11/2024 15/11/2024 MG-VHS 15/11/2024 15/11/2024 0/5 0/5 MG-CMS 15/11/2024 15/11/2024 0/5 MG-SAV 15/11/2024 15/11/2024 MG-IPN 15/11/2024 0/5 15/11/2024 4/5 **AERO** 03/12/2024 03/12/2024 **GPAT** 5/5 05/12/2024 05/12/2024 **EXOP** 1/5 05/12/2024 05/12/2024 SKIN 1/5 05/12/2024 05/12/2024 **KPAT** 4/5 05/12/2024 05/12/2024 2/5 LPAT 05/12/2024 05/12/2024 Report Summary 2nd Insp Case Type Date Insp ECI, CNI, SLI 15/11/2024 12/12/2024 DIA Case completion 06/12/2024



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0119
 Date of Visit
 13/11/2024

 Site No
 FS1286
 Site Name
 Muck

 Case No
 20240436
 Inspector

Section 1: Summary

The site was inspected due to recent mortality reports above the reporting threshold, all attributed to salmonid rickettsial septicaemia (SRS) caused by the bacterium *Piscirickettsia salmonis*, and environmental insult. Five fish were selected for diagnostic sampling.

Histopathology examination revealed mild gill pathology. One fish displayed evidence of SRS which was confirmed by qPCR. F2 exhibited granulomas with limited number of hyphae (likely *Exophiala*).

Paranucleospora theridion and salmon gill poxvirus were detected by qPCR.

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

Muck was inspected due to recent, consecutive mortality events above the reporting criteria, all attributed by the business to SRS and environmental insult, resulting in the loss of 259,967 fish in a 7-week period. At the time of inspection, the site was stocked with 1,087,176 Q1 Atlantic salmon at an average weight of 1.15kg originating from Etive 6 (FS1288). These were stocked alongside wild caught wrasse of mixed average weight. All the cages on site were inspected and five moribund fish were removed from cages 1, 5, 6 and 8 for diagnostic sampling.

All fish were moribund. F1 was hanging vertically in the water demonstrating a loss of equilibrium and F3 and F4 were spiralling. Externally, all fish were dark in colour with F3 having a distended abdomen, while F2 and F5 were anorexic. The eyes of F3 were haemorrhagic and the gills of all fish were pale in colour, with F5 also showing some necrosis of the gills. The vent was slightly inflamed on F3 also.

Internally, bloody ascites was observed in F1, F2 and F4 and the heart was pale/anaemic in all five fish. Petechial haemorrhaging was noted on the liver of F4 and was enlarged in all fish to varying extents.

A lack of fat was noted surrounding the pyloric caeca of F4 and F5 and the spleens were enlarged in F1-F5. No food was present in the gut of F2-F3 and yellow pseudo-faeces were present in the gut of the remaining fish.



Samples

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

Fish number	Facility number	Species	Stage	Origin
F1	8	Atlantic salmon	2024 Q1; 1.15kg	Etive 6, FS1288
F2	6	Atlantic salmon	2024 Q1; 1.15kg	Etive 6, FS1288
F3-F4	1	Atlantic salmon	2024 Q1; 1.15kg	Etive 6, FS1288
F5	5	Atlantic salmon	2024 Q1; 1.15kg	Etive 6, FS1288

Results

Bacteriology: Kidney and gill material from F1-F5 were inoculated onto appropriate media for the isolation of bacteria.

The following bacterium was isolated:

Aeromonas sp. :F1, F3-F5 (Gill);

Aeromonas sp. was identified. The level and purity would suggest that they are of environmental origin and are not present as primary fish pathogens.

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

Piscirickettsia salmonis

Fish Number	Endogenous control Cp value		Reported Result (PCR)		
F1	18.5	34.35	34.77	35.01	POSITIVE
F2	18.78	29.91	29.78	29.82	POSITIVE
F3	18.72	32.37	32.21	32.15	POSITIVE
F4	19.23	34.91	34.73	35.09	POSITIVE
F5	18.88	34.27	34.36	33.86	POSITIVE



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

Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	-	-	-	-	Negative
F2	18.89	34.70	34.46	35.31	POSITIVE
F3	19.06	24.72	24.97	25.09	POSITIVE
F4	18.84	28.94	29.12	28.89	POSITIVE
F5	19.19	25.96	25.99	26.01	POSITIVE

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

Paranucleospora theridion

Fish Number	Endogenous control Cp value		Reported Result (PCR)		
F1	19.26	27.37	27.39	27.45	POSITIVE
F2	18.89	23.32	22.68	23.14	POSITIVE
F3	19.06	24.90	24.38	24.63	POSITIVE
F4	18.84	24.87	23.74	24.67	POSITIVE
F5	19.19	21.94	22.01	21.73	POSITIVE

The samples tested negative for Neoparamoeba perurans (AGD).

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> Filament branchitis with necrosis (F2, F3, F5) and few round blue structures resembling bacteria that Gram-negative (likely *Piscirickettsia* sp.) (F2). F5 also displayed a copepod-like structure among gill filaments. Lamellar telangiectasia (F1-F5). Some post-mortem artefacts also observed (F1-F4).

<u>Skin & Muscle:</u> Extended focal area of white musculature degeneration with small foci of cellular inflammation (F2).

Heart: Minimal myocarditis (F1, F5). Few small thrombi (F3). Mild, epicarditis (F1-F5).

<u>Gut and pyloric caeca:</u> Peritonitis, mild-up-to- moderate (F1, F3, F5). F4 displayed reduced adipose tissue.

R09



<u>Pancreas:</u> Within the normal range.

<u>Liver:</u> Some vasculitis (F1). F2 displayed a small granuloma-like structure with giant cells, limited number of hyphae and an area of mineralisation. Some hepatocellular vacuolation (macrovesicles) (F5).

<u>Kidney:</u> Granuloma-like structure with few giant cells (F2, F4) and in F2 limited number of hyphae observed. Some renal tubules also displayed lumen dilation filled with some cell debris (F4). Hyaline droplets observed on the lining epithelium of few renal tubules (F2, F3, F4, F5).

Spleen: Mild-up-to-moderate congestion. Some capsulitis (F5).

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

Signed: Date: 12/12/2024

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at <u>Fish Health Inspectorate Service Charter - gov.scot</u> (www.gov.scot)



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0119
 Date of Visit
 13/11/2024

 Site No
 FS1286
 Site Name
 Muck

 Case No
 20240436
 Inspector

Case completion report

Issues were raised in relation to the above case, with a requirement for records unavailable for inspection to be submitted by 27th December 2024. The required records have now been provided to the Fish Health Inspectorate.

Once the diagnostic report for this case has been issued, the case will 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: 06/12/2024

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Scottish Government website at Fish Health Inspectorate Service Charter - gov.scot (www.gov.scot)



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0119
 Date of Visit
 13/11/2024

 Site No
 FS1286
 Site Name
 Muck

 Case No
 20240436
 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. Samples were taken for diagnostic purposes. A separate report will be issued detailing the results of these tests.

Records

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

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

Aquaculture animal and aquaculture animal product movement records were inspected and appeared to be inadequately 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 Directorate were available for inspection.

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



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

The transfer of cleanerfish onto site had not been recorded in the movement records. The
movement records for the site must be updated to include these movements of live fish.

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

Medicine records were inspected and found to be adequately maintained.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

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

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Date: 15/11/2024







F3 –











