FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020				
Case No: 2022-0425			Date of visit: 25/10/2022				
Time spent on site:	.5 Hours	Main Inspec	otor:				
Site No: FS0476 Business No: FB0095	Site Name: Business Name:	Quoys Hatchery Cooke Aquaculture Scotland	l Ltd				
Case Types: 1 MIX	2VMD 3	4 5	6				
Water Temp (°C): 9.8	Thermometer No:	Site	FHI 045 completed				
Observations:	Region: SH	Water type: F	CoGP MA				
Dead/weak/abnormally behaving fish present? N If yes, see additional information/clinical score sheet. Clinical signs of disease observed? N If yes, see additional information/clinical score sheet. Gross pathology observed? N If yes, see additional information/clinical score sheet. Diagnostic samples taken? N If yes, see additional information/clinical score sheet.							
UNI/REG only - if unable to carry out intended visit detail reason below:							

Additional Case Information:

Site inspection and paperwork conducted by _____, observed by _____.

Site thermometer used for biosecurity.

Fish sampled for VMD appeared healthy upon internal examination.

Stock origin - Holm Wrangle (England)

FHI 059, Version 13		Issued by: FHI Date o				Date of issu	e: 12/05/2020		
Case No:	2022-0425]	Site No:	FS0476]				
Date of Visit:		25/10/2022]		Inspector(s):			I	
Registration/Autho 1. Business/site deta			ite representa	itive?			Y	1	
2. Changes made to	-						N	1	
Site Details (include cleaner fish for all sections)									
Total No facilities		26	Facilities sto	cked	12	No facilitie	s inspected	26	
Species	SAL								
Age group	2023								
No Fish	447,000								
Mean Fish Wt	55g								
Next Fallow Date (S		March 2023		Next Input Da	te (Site)	May 2023			
Recent (last 4 wks)	-				Any escapes		visit)?	N	
If yes, detail:		cm5.			Any coupes		Nony:		
n yes, actail.									
Movement Records	e								
1. Movement record		r inspection?						Y	
2. Date of last inspe		i inspection:					25/04/2022		
3. Are records comp		actly antorod?	,				25/04/2022	V	
4. Are movement re		•						V	
5. Are records comp		•		blo?				N/A	
6. Are health certific	ates for introd		illi GD) avalla	able ?					
Transport Records									
1. Are any movement		t by (or on bel	half) of the hu	isiness (not usi	ing a STB)2				
If yes, is there a syst									
ii yes, is there a syst	terri in place i	ormaintenan		lation records	•				
Mortality Records									
1. Mortality records a	available for i	nspection?						Y	
2. How are mortalitie		•			Whole fish -	TWMA (She	tland)		
If other detail:									
3. Mortality records	complete and	correctly ente	ared?					Y	
o. Mortanty records (concony ente		0.04%), Wk 4	1 /122 0 020/) M/k 10 (1'		/k 30 (171	
4. Recent mortality (last 4 wks).		0.04%)	0.04 /0), VVK 4	1 (155, 0.05%)), VVK 40 (12	20, 0.03 %), V	VK 59 (171,	
		typical mortal						N	
	5. Evidence of recent increased/atypical mortalities? N If yes, facility nos/no mortality per facility/no stock per facility/reason:								
	montailty per	lacinty/no sto	or per facility/						
6. Any other peaks i	n mortality du	ring period ch	ecked2					N	
If yes, detail:		ing period cit	eckeu:						
							N/A		
If yes, detail action:				deteile en men (t		NI/A	
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet. N/A									

Treatments and Medicines Records							
1. Recent treatments (see comment)?	Y						
If yes, detail: T.M.S.							
If other, detail:							
2. Medicines records available for inspection?	Y						
3. Are records complete and correctly entered?	Y						
4. Are fish in a withdrawal period?	Y						
5. If yes, what treatment(s)? T.M.S.							
If other, detail:							
6. Are medicines stored appropriately?	Y						
 Biosecurity Records 1. Biosecurity records available for inspection? 2. Has the manner and frequency of mortality removal, recording and safe disposal been constant of the manner and period in which the APB will notify Scottish Ministers or veterinary professed (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 is detected been included and how and when that will be notified to Scottish Ministers? 5. Has the health status of aquaculture animals being stocked on the farm site been covered (health status, certification if required)? 	essional of any						
 6. Have the husbandry and biosecurity measures implemented between each epidemiological transmission of disease been covered (movement of staff, visitors, equipment, live or dead fis 7. Is documentation available regarding the measures in place to maintain the physical contain aquaculture animals held on site? 8. Have the biosecurity procedures been adequately implemented on site? 	h etc.)?						
Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business? 2. If yes, are results available for inspection? 3. Any significant results? If yes, detail (if not detailed under recent disease problems).							
Records checked between: 25/04/2022 - 25/10/2022							

FH	l 059, Version 13							lss	ued by:	FHI			
	Case no:	2022-04	125	Site No:		FS0476			Date of	visit/	25/	10/2022	25/*
									Samplin	-			
	Priority samples:	VI		BA		PA		MG		HI			
	 . ,.	10.0	0.00	40.0	0.00								
	Time sampling	12:0	0:00	12:3	0:00	l i	Inspecto	or:			VMD No	D.	3
	starts/ends:	1	Indeere	2		2		4	-	_		1	
	Environmental conditions:	1	Indoors	2		3		4		5			
	Summary samples	HIST		BA		MG		VI		PA		Total Sa	amples
	ourninary sumples	11101		271				*		17			mpico
Ad	ld Fish/Pools - click												
_		-	•										
	Pool/Fish No			-									
	Fish nos	1-3	4-6	7-9									
	Pool Group												
	Species	SAL	SAL	SAL									
	Average weight	55g	55g	55g									
	Sex	N/A	N/A	N/A									
	Water Type	FW	FW	FW									
		<u>le</u>	<u>de</u>	gle									
ils		anç	anç	anç									
eta		Holmwrangle	Holmwrangle	Holmwrangle									
Õ		<u><u> </u></u>	<u>n</u>	<u>n</u>									
	Stock Origin												
St	Facility No	3A	3A	3A									

10/2022	2022 Additional Sample Information:											
0	0 Total Tests assigned 0											

Case No:	2022-0425			Date of visit: 25/10/2022					
Site No:	FS0476	Inspector:							
Results Summary	Freq.			Dat	te of Notificat	tion			
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp	

	-		
Report Summary			
Case Type	Date	Insp	2 nd Insp
MIX	26/10/2022		
VMD	16/11/2022		





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 FB0095

 SITE NO
 FS0476

 CASE NO
 20220425

DATE OF VISIT25/10/2022SITE NAMEQuoys HatcheryINSPECTORInspector

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

The above site was visited in accordance with the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2015.

Samples were taken to be analysed for veterinary residues.

The Inspector did not observe any clinical signs associated with the listed diseases as described in the Aquatic Animal Health (Scotland) Regulations 2009.

Records

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

Medicine records were inspected and found to be adequately maintained.

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

Mortality records were inspected and found to be adequately maintained.

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

Signed:

Date: 16/11/2022

Fish Health Inspector

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

FHI 059, Version 13	Issu	ed by: FHI	Date of issue: 12/05/2020
Case No: 2022-0445			Date of visit: 18/10/2022
Time spent on site:	45mins	Main Inspecto	ir:
Site No: FS0562 Business No: FB0169	Site Name: Business Name:	Geocrab Hatchery The Scottish Salmon Company	y
Case Types: 1 ECI	2 CNI 3	45_	6
Water Temp (°C): 7.5	Thermometer No:	T308	FHI 045 completed
Observations:	Region: WI	Water type: F	
Dead/weak/abnormally behavir Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken? UNI/REG only - if unable to car	ved?	N If yes, see additional inform N If yes, see additional inform N	mation/clinical score sheet. mation/clinical score sheet. mation/clinical score sheet.

Additional Case Information:

Last mortality event and report was on the 08/08/2022 where fish were 23.6g (Q1). Mortality reported a 2.03%, 38955, transfer stock to lochs. Elevated water temperatures and issues with the oxygenation system, fish were transferred out to fw sites, fish will be moved back when systems are repaired. Only 2023 Q1 transferred, 2022 Q3 were not affected. Transfer stock to lochs (FS0737 & FS0149) temporarily

The last fish moved off site, Wk37, 17/18 09 2022, Gravir.

Ensiled on site and transporter takes waste tanks away.

Site thermometer used for biosecurity reasons.

During the site inspection, hatching eggs were observed and minimal amount of unviable/failed eggs were seen.

FHI 059, Version 13		Issued by: FHI Date of issue: 12						e: 12/05/2020		
Case No:	2022-0445]	Site No:	FS0562	2					
Date of Visit:		18/10/2022]		Inspector(s):			I		
Registration/Autho								_		
1. Business/site deta		/ checked by s	ite representa	ative?			Y			
2. Changes made to	o details?						Y	J		
Site Details (include cleaner fish for all sections)										
		1 hatchery						1 hatchery		
Total No facilities		and 8 tanks	Facilities sto	ocked	1 hatchery	No facilitie	s inspected	and 8 tanks		
Species	OVA									
Age group	Q3 2023									
No Fish	1 million									
Mean Fish Wt	Ova									
Next Fallow Date (S	,	never fallow		Next Input Da	_ ` '	Ova: week				
Recent (last 4 wks)	disease prob	olems?		N	Any escapes	s (since last	visit)?	N		
If yes, detail:										
Movement Record	c									
1. Movement record		or inspection?						Y		
2. Date of last inspe							03/12/2019	<u> </u>		
3. Are records comp		rectly entered?	,					Y		
4. Are movement re		•		,				Y		
5. Are records comp	plete and cor	rectly entered?	,					Y		
6. Are health certific	ates for intro	ductions (outw	rith GB) availa	able?				Y		
Transport Decords										
Transport Records 1. Are any movement		it by (or on bel	half) of the hu	isingss (not us	ing a STB12					
If yes, is there a sys		• •		•	- /					
								L		
Mortality Records										
1. Mortality records	available for	inspection?						Y		
2. How are mortalitie	es disposed o	of?			Ensiled - on	site				
If other detail:										
3. Mortality records	complete and	d correctly ente						Y		
4. Deserve and a setality of				, 1199, 0.12%;	Wk39, 1041,	0.10%; Wk	38, 0,0%; Wk	(37, 189,		
4. Recent mortality (• •		0.07%					N		
5. Evidence of recern If yes, facility nos/no		••		/roacon:						
	monality pe		ск регласниз	/1645011.						
6. Any other peaks in mortality during period checked?								Y		
If yes, detail: 2021: Wk29, 14307, 2.2% (parr, fungus). Wk30, 3.74%, 24,930 (parr, fungus)							•			
7. Have increased (unexplained) mortalities been reported to vet or FHI?							N/A			
If yes, detail action:							•			
8. Have 'mortality ev	vents' been re	eported to FHI	? If no, enter	details on mort	tality events sh	neet.		Y		

Treatments and Medicines Records							
1. Recent treatments (see comment)?	N						
If yes, detail:							
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?	N						
5. If yes, what treatment(s)?							
If other, detail:							
6. Are medicines stored appropriately?							
Biosecurity Records							
1. Biosecurity records available for inspection?	Y						
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?	Y						
4. Has the action that will be taken in the event that the presence	or suspicion of the presence of a listed disease						
is detected been included and how and when that will be notified	to Scottish Ministers?						
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 be							
transmission of disease been covered (movement of staff, visitors							
7. Is documentation available regarding the measures in place to aquaculture animals held on site?	maintain the physical containment of						
8. Have the biosecurity procedures been adequately implemented	on site?						
If no, detail:							
Results of Surveillance							
1. Has any animal health surveillance been carried out by, or on b	ehalf of, the business?						
2. If yes, are results available for inspection?							
3. Any significant results?	N						
If yes, detail (if not detailed under recent disease problems).							
Records checked between: 03/1	2/2019-18/10/2022						

FHI 059, Version 13		Issued by: FHI			Date		. 12/05/2020
Case Number:	2022-0445		Site No:	FS0562		Insp:	
Date of Visit	18/10/2022		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 including third country	0	9	18	26	q
	Number of sup		0	-	10		5
Movements off	Frequency of m	novements off	0	3	6	10	3
	Number of dest		0	3	6		3
Exposure via water		Site contacts	0	1-5	6-10		-
Water contacts with other farms (holding species	Farm is protect disinfection or l	ed (secure water supply through porehole)	0				0
susceptible to same diseases)	farms upstream	or in a coastal zone with category I or within 1 tidal excursion	1	2	4		
	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 o or within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	0				0
	Processing own	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
	equivalent state		4				
		from Category III farm	8				
	Processing fish	from Category V farm	10				
Disposal of fish and fish by-	Site's own was	e only processed.	0	1			0
products	Common proce	esses with other farms	3				
	Collection poin	for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	npasteurised feed	0				0
	Feeding unpas	teurised feed	5				
Biosecurity		Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		0
	Sites sharing s	aff and equipment	0	1	2		0
Disinfection of equipment	Yes		0	1			0
between sites, use of footbaths etc	No		1				
CoGP/Regulator							
Practices in accordance with regulator or industry	Yes		0				0
code of practice	No		3				
Platform access to cages	Yes		0	1			0
	No		2				
					Total Rank		20 MEDIUM

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020							
Case No: 2022-0445	Site No:	FS0562							
Sea Lice Inspection (Seawater Sites Only)									
 Has the site experienced sea lice problems Is the CoGP Farm Management Area (or e 	s in the previous 4 years? quivalent) fallowed synchronously on a single <u>y</u>	year class basis?							
3. Does the site have access to a range of licenced in-feed and bath sea lice medications (including deltamethrin, azamethiphos and 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 documented farm management agreement or statement relevant to the site and CoGP Farm Management Area (or equivalent)?									
5. Are sea lice count records available for inspection? (Legal SSI, CoGP Annex 6) 6. Do records adequately reflect the required standard specified in the SSI and the CoGP? (Legal SSI, CoGP Annex 6)									
7. Are sea lice (<i>L. salmonis</i>) record levels be records are inspected? (CoGP Annex 6)	low the suggested criteria for treatment in the C	CoGP during the period that							
8. Have average adult female sea lice (<i>L. sali</i> 2 or above (from w/b 10/6/19) during the perio	<i>monis</i>) numbers per fish been at a level of 3 or od that records are inspected?	above (prior to w/b 10/6/19) or							
If yes, have these been reported to the Fish F 9. Is <i>C. elongatus</i> infestation at a level which	lealth Inspectorate? If no, FHI see comment. is considered to cause significant welfare prob	lems? (CoGP 4.3.81, 5.3.50)							
	stered or other actions taken when <i>L. salmonis</i> elongatus is considered to have welfare implica								
11. Has any other action been taken (where a12. Have therapeutic treatments or the action	applicable)? s taken had a significant impact upon the lice le	evels recorded?							
13. Are treatments, where conducted, carried	out in cooperation between participating farms	?							
14. Is there a harvesting strategy for the site, sea lice?	where fewer populations or part populations are	e held without treatment for							
15. Is there a site specific written lice manage scenarios during the escalation of a sea lice it	ement procedure with waypoints describing set nfestation?	actions to deal with recognised							
16. Do the sea lice levels observed on stocks	reflect sea lice count data? If no please detail	reasons.							
Containment Increation									
Containment Inspection	ge due to predators in the current or previous p	roduction cycles?							
	he predation experienced on site? (Detail below								
predator net									
If other, detail below:									
3. Have escape incidents or events been exp	perienced on or in the vicinity of the site since the	ne last FHI inspection? N							
If Yes proceed with questions $4 - 9$. If No skip									
4. Have these been reported to Scottish Minis									
-	orthwith (where they exist)? (CoGP – 4.4.37, 5. d local fisheries trusts forthwith (where they exis	· · · · · · · · · · · · · · · · · · ·							
0. Have these been reported to the 35FO and		st)? (COGF - 4.4.57, 5.4.17)							
7. Were methods (if any) used to recover esc	apees? If yes give detail								
8. If gill nets were deployed was this action ag Ministers? (Legal, CoGP – 4.4.38, 5.4.18)	greed with local wild fish interests and was perm	nission given by Scottish							
9. What action was taken to prevent and minimise the risk of further escapes? (Not covered in code but could									
be considered under satisfactory measures of the Act)									
10. Is the site inspected as satisfactory with r	egards to containment? If no, please detail reas	son(s) Y							

Case No:	2022-0445	Date of visit: 18/10/2022										
Site No:	FS0562 Inspector:											
Results Summary	Freq.				te of Notifica							
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp				
	-											
Report Summary	_											
Case Type ECI, CNI	Date	Insp	2 nd Insp									
ECI, CNI	27/10/2022											

Report Summary			
Case Type	Date	Insp	2 nd Insp
ECI, CNI	27/10/2022		





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No FB0169 SITE NO FS0562 CASE NO 20220445 **DATE OF VISIT** 18/10/2022 SITE NAME INSPECTOR

Geocrab Hatchery

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory.

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



Fish Health Inspector

Signed:

Date: 27/10/2022

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

FHI 059, Version 13	lt	ssued by: FHI	Date of issue: 12/05/2020				
Case No: 2022-0446			Date of visit: 19/10/2022				
Time spent on site:	3.5hours	Main Ins	pector:				
Site No:FS1256Business No:FB0169	Site Name: Business Name:	Plocrapol The Scottish Salmon Con	npany				
Case Types: 1 REP	2 DIA 3	4 5	6				
Water Temp (°C): 12.05	Thermometer No:	T308	FHI 045 completed				
Observations:	Region: WI	Water type: S	CoGP MA: W-8				
Dead/weak/abnormally behaving fish present? Clinical signs of disease observed? Gross pathology observed? Diagnostic samples taken? UNI/REG only - if unable to carry out intended visit detail reason below: Y UNI/REG only - if unable to carry out intended visit detail reason below:							

Additional Case Information:

Site has been reporting mortalities for ~6 weeks. First reports of mortality above 1% were attributed to bacterial disease, with 2 pens testing positive for Furunculosis. Gill health and anaemia became primary cause of mortality on site second week, with freshwater treatments scheduled to aid gills. Last treatment on site was extended 3hr FW treatment.

Pasturella and Furunculosis confirmed by internal diagnostic sampling on 19/09 and 18/08 respectively. In addition, low level CMS also found. Pen 6 has highest mortality. During site inspection, few fish seen with open lesions. No fish that did possess open furuncle like lesions were sampled as they were not able to be caught.

Gills observed during site sampling inspection were found to be in poor condition and clearly anaemia was present in sampled fish too. Feeding rates on site were low across the board. Lice burden was observed to be low on site.

All fish sampled were lethargic with all being moribund also.

Lumpfish losses as below from Wk 7 2022: Wk41, 9159, 99.71% (black losses)* Wk31,1231,10.75% (Mechanical treatment and black losses) Wk30, 1335, 10.44% (Mechanical treatment related) Wk18, 2669,13.04% (FW treatment related)

No wrasse or lumpfish on site during site inspection on the 19/10/2022.

*Cause of mortality was amended following discussions with the business. Initially cause was recorded as FW treatment losses but corrected to black losses on 06/07/2023. The black losses were observed at the time of a freshwater treatment, where fewer than expected number of lumpfish were observed, rather than the losses being directly associated with the FW treatment conducted.

FHI 059, Version 13			ไรรเ	ied by: FHI			Date of issu	e: 12/05/2020	
Case No:	2022-0446]	Site No:	FS1256]				
Date of Visit:		19/10/2022	2		Inspector(s):				
Registration/Autho	orisation Det	ails							
1. Business/site deta	ails summary	v checked by s	ite represent	ative?			Y		
2. Changes made to details?									
Site Details (includ	le cleaner fis	sh for all sect	ions)						
Total No facilities		10	Facilities sto	ocked	7	No facilitie	s inspected	10	
Species	SAL								
Age group	Q1 2021								
No Fish	215,807					Ì			
Mean Fish Wt	2.5kg								
Next Fallow Date (S	ite)	late Q1 or Q	2 2023	Next Input Da	ite (Site)	June 2023	5		
Recent (last 4 wks)	disease prob	lems?		Y	Any escapes	(since last	visit)?	N	
If yes, detail:	Pastruella s	kyensis, AGD	, PGD, CMS,	Furunculosis					
Movement Records	S								
1. Movement record		or inspection?					-	Y	
2. Date of last inspection: 16/02/2022									
3. Are records complete and correctly entered?									
4. Are movement records available for dead fish and waste? Y									
5. Are records complete and correctly entered?									
6. Are health certificates for introductions (outwith GB) available? N/A									
Transport Records									
1. Are any movement									
If yes, is there a sys	tem in place	for maintenan	ce of transpo	rtation records'	?				
Mantal'ta Daarada									
Mortality Records									
1. Mortality records		•						Ý	
2. How are mortalitie					Other (detail)				
If other detail:		t Whiteshore (V	
3. Mortality records	complete and	a correctly ent				0.0404.144		ľ	
1 Decent martality (, 7040, 3.18%;	Wk40, 10383	, 2.94%; WI	K39, 27747, 6	6.85%;	
4. Recent mortality (at migal marta	Wk38, 3993	32, 8.66%				N	
5. Evidence of recent increased/atypical mortalities? N If yes, facility nos/no mortality per facility/no stock per facility/reason:									
ir yes, raciiity nos/no	monality pe	r facility/no sto	оск регласниу	//reason.					
6. Any other peaks i	n mortality d	uring period ch	bockod2					V	
				710 / 100/. \//	L25 14052 2	640/ · M/k22	2 10627 1 0	10/ · \\///22	
2022: WK37, 35715, 7.19%; Wk36, 21712, 4.18%; Wk35, 14053, 2.64%; Wk33, 10627, 1.94%; Wk32, If yes, detail: 5851, 1.06%									
7. Have increased (unexplained) mortalities been reported to vet or FHI?									
If yes, detail action:									
8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.									

If yes, detail: If other, detail: A re fish in a withdrawal period? A re fish in a withdrawal period? If other, detail: A re fish in a withdrawal period? If other, detail: A re medicines stored appropriately? Biosecurity Records Biosecurity records available for inspection? A that the manner and frequency of mortality removal, recording and safe disposal been considered? A that 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? A that the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and how and when that will be notified to Scottish Ministers? A that the health status of aquaculture animals being stocked on the farm site been covered (equal or higher)	Treatments and Medicines Records							
If other, detail: Y 2. Medicines records available for inspection? Y 3. Are records complete and correctly entered? Y 4. Are fish in a withdrawal period? N 5. If yes, what treatment(s)? N If other, detail: 6. Are medicines stored appropriately? Y Biosecurity Records Y 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered? Y 3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any increased (unexplained) mortality at the site been included? Y 4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers? S 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)? S 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.)? Y 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? S 8. Have the biosecurity procedures been carried out by, or on behalf of, the business? Y <td>1. Recent treatments (see comment)?</td> <td>N</td>	1. Recent treatments (see comment)?	N						
2. Medicines records available for inspection? Y 3. Are records complete and correctly entered? Y 4. Are fish in a withdrawal period? N 5. If yes, what treatment(s)? N fother, detail: Y 6. Are medicines stored appropriately? Y Biosecurity Records Y 1. Biosecurity records available for inspection? Y 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered? Y 3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any increased (unexplained) mortality at the site been included? Image: Store and Abov and when that will be notified to Scottish Ministers? Image: Store and Store an	If yes, detail:							
3. Are records complete and correctly entered? Y 4. Are fish in a withdrawal period? N 5. If yes, what treatment(s)? N forther, detail:	If other, detail:							
3. Are records complete and correctly entered? Y 4. Are fish in a withdrawal period? N 5. If yes, what treatment(s)? N forther, detail:	2. Medicines records available for inspection?	Y						
5. If yes, what treatment(s)? Y If other, detail: Y Biosecurity Records Y Biosecurity records available for inspection? Y 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered? Y 3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any increased (unexplained) mortality at the site been included? Y 4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers? S 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)? 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.)? Y 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? How detail: Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business? Y 3. Hay en results available for inspection? Y AGD, PGD, CMS, Pasturella skyensis, Y	3. Are records complete and correctly entered?	Y						
If other, detail: 6. Are medicines stored appropriately? 8iosecurity 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 <i>increased (unexplained)</i> 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? 1. Has any animal health surveillance been carried out by, or on behalf of, the business? 2. If yes, are results available for inspection? 3. Any significant results? 4. AGD, PGD, CMS, Pasturella skyensis,	4. Are fish in a withdrawal period?	N						
6. Are medicines stored appropriately? Biosecurity Records 1. Biosecurity records available for inspection? 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered? 3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any <i>increased (unexplained)</i> mortality at the site been included? 4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers? 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)? 6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)? 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? 8. Have the biosecurity procedures been adequately implemented on site? If no, detail: Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business? 2. If yes, are results available for inspection? 3. Any significant results? AGD, PGD, CMS, Pasturella skyensis,	5. If yes, what treatment(s)?							
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: Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business? Y AGD, PGD, CMS, Pasturella skyensis,	If other, detail:							
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 how and when that will be notified to Scottish Ministers? 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)? 6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)? 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? 8. Have the biosecurity procedures been adequately implemented on site? 16. no, detail: Results of Surveillance Y AGD, PGD, CMS, Pasturella skyensis,	6. Are medicines stored appropriately?	Y						
 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 <i>increased (unexplained)</i> 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? 1. Has any animal health surveillance been carried out by, or on behalf of, the business? 2. If yes, are results available for inspection? 3. Any significant results? 	Biosecurity Records							
 3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any <i>increased (unexplained)</i> mortality at the site been included? 4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers? 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)? 6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)? 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? 8. Have the biosecurity procedures been adequately implemented on site? If no, detail: Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business? Y AGD, PGD, CMS, Pasturella skyensis, 	1. Biosecurity records available for inspection?							
<i>increased (unexplained)</i> mortality at the site been included? 4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers? 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)? 6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)? 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? 8. Have the biosecurity procedures been adequately implemented on site? If no, detail: Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business? 2. If yes, are results available for inspection? 3. Any significant results? AGD, PGD, CMS, Pasturella skyensis,	2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?							
 4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers? 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)? 6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)? 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? 8. Have the biosecurity procedures been adequately implemented on site? If no, detail: Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business? Y AGD, PGD, CMS, Pasturella skyensis, 	3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any							
 is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers? 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)? 6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)? 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? 8. Have the biosecurity procedures been adequately implemented on site? If no, detail: Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business? 2. If yes, are results available for inspection? 3. Any significant results? 	increased (unexplained) mortality at the site been included?							
 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)? 6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)? 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? 8. Have the biosecurity procedures been adequately implemented on site? If no, detail: Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business? Y 2. If yes, are results available for inspection? 3. Any significant results? 	4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease							
health status, certification if required)? 6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)? 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? 8. Have the biosecurity procedures been adequately implemented on site? If no, detail: Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business? 2. If yes, are results available for inspection? 3. Any significant results?	is detected been included and how and when that will be notified to Scottish Ministers?							
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:	5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher							
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:	health status, certification if required)?							
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:								
 7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site? 8. Have the biosecurity procedures been adequately implemented on site? If no, detail: Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business? Y 2. If yes, are results available for inspection? 3. Any significant results? AGD, PGD, CMS, Pasturella skyensis,								
aquaculture animals held on site? 8. Have the biosecurity procedures been adequately implemented on site? If no, detail:								
 8. Have the biosecurity procedures been adequately implemented on site? If no, detail: Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business? 2. If yes, are results available for inspection? 3. Any significant results? 								
If no, detail: Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business? 2. If yes, are results available for inspection? 3. Any significant results? AGD, PGD, CMS, Pasturella skyensis,								
Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business? 2. If yes, are results available for inspection? 3. Any significant results? AGD, PGD, CMS, Pasturella skyensis,								
1. Has any animal health surveillance been carried out by, or on behalf of, the business? Y 2. If yes, are results available for inspection? Y 3. Any significant results? Y AGD, PGD, CMS, Pasturella skyensis,								
1. Has any animal health surveillance been carried out by, or on behalf of, the business? Y 2. If yes, are results available for inspection? Y 3. Any significant results? Y AGD, PGD, CMS, Pasturella skyensis,	Deputée of Curreillence							
2. If yes, are results available for inspection? 3. Any significant results? AGD, PGD, CMS, Pasturella skyensis,		V						
3. Any significant results? AGD, PGD, CMS, Pasturella skyensis,	,	V						
AGD, PGD, CMS, Pasturella skyensis,		I V						
II VES DETAIL OF NOT DETAILED UNDER TECENT DISEASE DIODIENTS).								
18/8/2022 positive for Aeromonas salmonicida spp, PRV, AGD, PGD. 19/9/2022 positive for PRV and Pasteurella skyensis Records checked between: 16/02/2022-19/10/2022		cyensis						

FHI 059, Version 13				Issued by: FHI		
Case no:	2022-0446	Site No:	S1256	Date of visit Sampling:	t/ 19/10/2022	19/'
Priority samples:	VI	ВА	PA	MG	н	
Time sampling starts/ends:	09:35:00	11:35:00	Inspector:		VMD No.	
Environmental conditions:	1 Windy	2 Sunny	3	4	5	
Summary samples	HIST Y	BA Y	MG Y	VI	PA Total S	amples

Add Fish/Pools - click

os Broup es ge weight Type	2.7kg N/A	SAL 2.7kg	2.7kg		5 SAL 2.7kg							
es ge weight	2.7kg N/A	2.7kg	2.7kg									
ge weight	2.7kg N/A	2.7kg	2.7kg									
	N/A			2.7kg	27ka							
		N/A	/ .		2.7 KY							
Type			N/A	N/A	N/A							
туре	SW	SW	SW	SW	SW							
Origin y No	ی Geocrab Hatchery (FS0562)	n Geocrab Hatchery (FS0562)	ה Geocrab Hatchery (FS0562)	ס Geocrab Hatchery (FS0562)	D Geocrab Hatchery (FS0562)							
<u> </u>	Drigin No	ocrab 0562)	ocrab ocrab ocrab	ocrab ocrab ocrab ocrab ocrab	ocrab 0562) 0562) 0562) 0562) 0562)	0562) 0562) 0562) 0562) 0562) 0562)	ocrab 0562) 0562) 0562) 0562) 0562)	0562) 0562) 0562) 0562) 0562) 0562)	ocrab 0562) 0562) 0562) 0562) 0562)	ocrab 0562) 0562) 0562) 0562) 0562)	ocrab 0562) 0562) 0562) 0562)	ocrab ocrab ocrab ocrab ocrab ocrab

10/2022 Additional Sample Information:												
F1 sampled from 09:35-09:50. F2 and F3 sampled from 10:08-10:30. F4 sampled from 11:04-11:35.												
5 Total Tests assigned 4												

FHI 059, Version 13				lss	ued by:	FHI		Date of issue: 12/05/)5/20	
Case no:	2022-0446		Site No:			FS125	6	М	Method of killing: Anaesthetic]	
Date of visit:	19/10/20)22	2 Inspector(s):					Sheet Relevant: Y]	
									_				[
S for strong preser Fish Number	nce: M for medium presence: W	for weak p	prese	ence 2	3	4	5			1			4
	er death (if > 45 minutes)				5		J						
External Signs													1
Behaviour	Moribund	W	<u> </u>	W	М	W	W						i i
	Lethargic	S	4	S	S	S	S						
	Hanging vertical												
	Spiralling												
	Flashing												
Dedu	Loss of equilibrium	_				_							
Body	Dark Distended abdomen	_				-							-
	Anorexic		_										
	Scale Oedema												
Opercula	Shortened												1
	Flared]
Haemorrhaging	Throat												
	Ventrum												1
	Base of fins												4
Even a	Elsewhere												-
Eyes	Exophthalmic Enophthalmic (sunken)												4
	Cataract	_	_		S	_							
	Haemorrhagic		_			-							
Gills	Pale	S		S	S	S	W						
	Zoned	S		S	S	S	М						1
	Necrotic												1
Lesions	Flank												
	Elsewhere												
Vent	Inflamed		_			W							-
Line Land	Trailing faeces		0	0	0	0	0						4
Lice Load	Estimate numbers				U		0						
Internal Signs		_				_							
Ascites	Clear												1
	Bloody		- h	М									1
Oedema	In tissues												
Heart	Pale/anaemic	W		W	W	W	W]
	Granulomas												
	Deformed	_	_										
Liver	Petechial haem Gross haem		_			-				-			4
	Tissue breakdown	_	-										
	Enlarged												1
	Colour number(s)		3	3	2	3	3						1
	Granulomas												1
	Lesions												
Pyloric caeca	Petechial haem												1
	Tubules mauve												4
Crale er	Lack of fat	м		Μ	M	M	M						1
Spleen	Enlarged Granulomas			IA1		IVI	IVI						4
Gut	No food present	S	-	S	S	S	S						ł –
Cut	Yellow pseudo-faeces	S		S	S	s	S						1
	External haem												1
	Internal haem												1
Body wall	Haemorrhaging												
Swim bladder	Haemorrhaging			W									1
	Fluid filled												4
Kidney	Swollen												4
	Grey Granular												4
	Liquefied												ł –
General	Parasites present												1
	Anaemia												i –

Issued by: FH	
---------------	--

Case no:	2022-0446

Г

Date of visit:

1

19/10/2022

	ice: M for medium presence: W for 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					
	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					
Volit	Trailing faeces					
Lice Load	Estimate numbers					
Internal Signs						
Ascites	Clear					
ASCILES	Bloody					
Oedema	In tissues					
Heart	Pale/anaemic					
neart	Granulomas					
	Deformed					
Liver						
Liver	Petechial haem					
	Gross haem					
	Tissue breakdown					
	Enlarged	 		 		
	Colour number(s)					
	Granulomas					
	Lesions					
Pyloric caeca	Petechial haem					
	Tubules mauve					
	Lack of fat					
Spleen	Enlarged					
	Granulomas					
Gut	No food present					
	Yellow pseudo-faeces					
	External haem					
	Internal haem					
Body wall	Haemorrhaging					
Swim bladder	Haemorrhaging					
	Fluid filled					
Kidney	Swollen					
	Grey					
	Granular					
	Liquefied					
General	Parasites present					
	Anaemia					
	Andenna					

Site No: FS1256

Case No: 2022-0446

Nature of non-compliance:

Action taken (FHI):

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

Case No:	2022-0446	Date of visit: 19/10/2022						
Site No:	FS1256	Inspector:						
Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp

MG_VHS0/526/10/202226/10/202208/11/2022MG_IHNQ0/526/10/202226/10/202208/11/2022MG_IPN0/526/10/202226/10/202208/11/2022MG_ISA0/526/10/202226/10/202208/11/2022MG_PARA_TER_Q4/526/10/202226/10/202208/11/2022MG_PMCV0/526/10/202226/10/202208/11/2022MG_PRV5/526/10/202226/10/202208/11/2022MG_SAL_POX5/526/10/202226/10/202208/11/2022MG_AGDQ1/526/10/202226/10/202208/11/2022ASAL1/504/11/202204/11/202208/11/2022FURH1/503/11/202204/11/202208/11/2022
MG_IPN 0/5 26/10/2022 26/10/2022 08/11/2022 MG_ISA 0/5 26/10/2022 26/10/2022 08/11/2022 MG_PARA_TER_Q 4/5 26/10/2022 26/10/2022 08/11/2022 MG_PMCV 0/5 26/10/2022 26/10/2022 08/11/2022 MG_PRV 5/5 26/10/2022 26/10/2022 08/11/2022 MG_SAL_POX 5/5 26/10/2022 26/10/2022 08/11/2022 MG_AGDQ 1/5 26/10/2022 26/10/2022 08/11/2022 ASAL 1/5 04/11/2022 04/11/2022 08/11/2022
MG_ISA0/526/10/202226/10/202208/11/2022MG_PARA_TER_Q4/526/10/202226/10/202208/11/2022MG_PMCV0/526/10/202226/10/202208/11/2022MG_PRV5/526/10/202226/10/202208/11/2022MG_SAL_POX5/526/10/202226/10/202208/11/2022MG_AGDQ1/526/10/202226/10/202208/11/2022ASAL1/504/11/202204/11/202208/11/2022
MG_PARA_TER_Q4/526/10/202226/10/202208/11/2022MG_PMCV0/526/10/202226/10/202208/11/2022MG_PRV5/526/10/202226/10/202208/11/2022MG_SAL_POX5/526/10/202226/10/202208/11/2022MG_SAV0/526/10/202226/10/202208/11/2022MG_AGDQ1/526/10/202226/10/202208/11/2022ASAL1/504/11/202204/11/202208/11/2022
MG_PMCV0/526/10/202226/10/202208/11/2022MG_PRV5/526/10/202226/10/202208/11/2022MG_SAL_POX5/526/10/202226/10/202208/11/2022MG_SAV0/526/10/202226/10/202208/11/2022MG_AGDQ1/526/10/202226/10/202208/11/2022ASAL1/504/11/202204/11/202208/11/2022
MG_PRV 5/5 26/10/2022 26/10/2022 08/11/2022 MG_SAL_POX 5/5 26/10/2022 26/10/2022 08/11/2022 MG_SAV 0/5 26/10/2022 26/10/2022 08/11/2022 MG_AGDQ 1/5 26/10/2022 26/10/2022 08/11/2022 ASAL 1/5 04/11/2022 04/11/2022 08/11/2022
MG_SAL_POX5/526/10/202226/10/202208/11/2022MG_SAV0/526/10/202226/10/202208/11/2022MG_AGDQ1/526/10/202226/10/202208/11/2022ASAL1/504/11/202204/11/202208/11/2022
MG_SAV0/526/10/202226/10/202208/11/2022MG_AGDQ1/526/10/202226/10/202208/11/2022ASAL1/504/11/202204/11/202208/11/2022
MG_AGDQ 1/5 26/10/2022 26/10/2022 08/11/2022 ASAL 1/5 04/11/2022 04/11/2022 08/11/2022
ASAL 1/5 04/11/2022 04/11/2022 08/11/2022
FURH 1/5 03/11/2022 04/11/2022 08/11/2022
GPAT 1/5 03/11/2022 04/11/2022 08/11/2022
LPAT 4/5 03/11/2022 04/11/2022 08/11/2022
KPAT 5/5 04/11/2022 04/11/2022 08/11/2022
SPAT 4/5 03/11/2022 04/11/2022 08/11/2022
PAST 4/5 03/11/2022 04/11/2022 08/11/2022
PASS 4/5 04/11/2022 04/11/2022 08/11/2022

Report Summary			
Case Type		Insp	2 nd Insp
REP, DIAG	08/11/2022		
	_		





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 FB0169

 SITE NO
 FS1256

 CASE NO
 20220446

DATE OF VISIT19/10/2022SITE NAMEPlocrapolINSPECTORInspector

Section 1: Summary

The above site was inspected following reports of increased mortality by the farm operator. During the physical inspection of all pens, five fish were removed for diagnostic sampling.

Histopathology examination revealed pathology consistent with *Pasteruella* sp. *Pasteurella skyensis* was confirmed on site signs consistent with the bacterium were observed by histology examination, samples were tested for the presence of *P. skyensis* by qPCR and were positive. In addition, one fish was observed to display features consistent with *Aeromonas salmonicida*. In addition, *Aeromonas* sp. was identified on plates taken from kidney material of F3. The level and purity of growth would suggest that it would be implicated as a primary pathogen of this individual fish. However, there is no evidence from the samples provided that it would be implicated in morbidity overall. Lastly, mild, multifocal hepatic and necrotizing splenitis.

One fish tested positive for amoebic gill disease (*Neoparamoeba perurans*) by qPCR. In addition, four fish tested positive for *Paranucleospora theridion*. All fish sampled tested positive for salmon gill pox virus and piscine reovirus by a 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

Following, 6 weeks of notifications of increased mortality above the reporting threshold, a site inspection was conducted. On the day of the inspection, it was confirmed via internal health reports that *Pasteurella skyensis*, cardiomyopathy syndrome and furunculosis were present on site. Few fish were observed with open lesions, however, many fish were observed to be lethargic. On inspection, gills were observed to be in poor condition and in some cases extremely pale with clear anaemia present. Pen 6 was found to be the pen with the most lethargic fish and had experienced the highest mortality on site since issues began. Minimal lice numbers were observed on sampled fish.

All sampled fish were lethargic and moribund. Gills of four fish were zoned and pale. Internally, yellow pseudofaeces was present in the hind gut of all fish sampled.

R09

Samples

Fish number	Facility number	Species	Stage	Origin
1	3	Atlantic Salmon	2.7kg 2021 Q1	Geocrab Hatchery (FS0562)
2-3	5	Atlantic Salmon	2.7kg 2021 Q1	Geocrab Hatchery (FS0562)
4-5	6	Atlantic Salmon	2.7kg 2021 Q1	Geocrab Hatchery (FS0562)

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

Results

Bacteriology: Kidney and gill F1 to F5 inoculated onto appropriate media for the isolation of bacteria.

The following bacteria was isolated from kidney material in F3:

• Aeromonas salmonicida

From the tests conducted, we do not have evidence of resistance to oxytetracycline and florfenicol.

We have evidence which may indicate resistance to amoxycillin and sulphamethoxazole.

In addition, another bacteria was identified from kidney material and by qPCR:

Fish Number	Endogenous control Cp value		Reported Result (PCR)		
F1	23.46	28.3	28.92	28.92	POSITIVE
F2	23.93	24.99	25.49	25.5	POSITIVE
F3	-	-	-	-	NO_RESULT
F4	23.43	25.42	25.37	25.65	POSITIVE
F5	24.81	27.81	27.82	27.75	POSITIVE

Pasteurella skyensis

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 pox virus

Fish Number	Endogenous control Cp value	Cp Values	Cp Values				
F1	19.75	39.61	39.6	36.73	POSITIVE		
F2	21.47	37.97	36.47	36.07	POSITIVE		
F3	20.08	26.42	26.53	27.17	POSITIVE		

R09

F4	20.45	27.13	27.37	27.24	POSITIVE
F5	20.55	30.43	30.33	30.6	POSITIVE

Piscine reovirus (PRV)

Fish Number	Endogenous control Cp value		Reported Result (PCR)		
F1	18.17	33.79	33.15	34.06	POSITIVE
F2	18.02	31.67	31.99	31.47	POSITIVE
F3	18.07	28.62	28.63	28.51	POSITIVE
F4	17.27	32.07	31.69	31.73	POSITIVE
F5	18.28	32.19	31.96	32.05	POSITIVE

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

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

Fish Number	Endogenous control Cp value		Reported Result (PCR)		
F1	-	-	-	-	NEGATIVE
F2	-	-	-	-	NEGATIVE
F3	20.08	34.21	33.94	32.96	POSITIVE
F4	-	-	-	-	NEGATIVE
F5	-	-	-	-	NEGATIVE

Neoparamoeba perurans (AGD)

Paranucelospora theridion

Fish Number	Endogenous control Cp value		Reported Result (PCR)		
F1	19.75	35.32	35.37	34.98	POSITIVE
F2	-	-	-	-	NEGATIVE
F3	20.08	30.51	30.38	30.73	POSITIVE
F4	20.45	30.88	28.68	30.98	POSITIVE
F5	20.55	33.25	33.25	33.05	POSITIVE

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

Histopathological examination revealed the following:

Gill: Filament hyperplasia and lamellar fusion and adhesions, mild, multifocal (F3). Some bluntness of gill filament tips and presence of several dense aggregates of Gram-negative bacteria (F3).

Occasional basophilic epithelial inclusions (likely epithelicystis) (F3). Lamellar telangiectasia with multifocal thrombosis in all fish.

Skin and Muscle: within normal range.

Heart: F3 displayed several small dense aggregates of Gram-negative bacteria in the two chambers and one foci fibre necrosis. Mild cellular infiltration (F2, F4 and F5).

Gut and pyloric caeca: Very mild peritonitis (F3).

Pancreas: within normal range.

Liver: Hepatocellular necrosis, mild, multifocal (F3, F5). Infiltration of mononuclear cells in the vasculature and sinusoids (F1, F4). Some cuffing (F5). Some mild, diffuse hepatocellular vacuolation (macrovisicules) (F1).

Kidney: Some, multifocal interstitial cell (haemopoietic) necrosis (F2, F3, F4). Presence of dense aggregates of Gram-negative bacteria surrounded by interstitial cell (haemopoietic) necrosis and pustule-like structure (F3). F1-F2 and F4-F5 displayed Gram-negative bacteria in the glomeruli.

Spleen: Cellular necrosis, mild, multifocal (F2, F5), some cuffing and presence of inflammatory cells, some resembling giant cells (F1, F4).



Date: 08/11/2022

Fish Health Inspector

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

Signed:

Plocrapol Diagnostic Sample Pictures (20220446):



Figure 1 An overview of the condition of Fish 1.



Figure 2 Gills of Fish 1



Figure 3 Internal overview of Fish 1.



Figure 4 External view of a) Fish 2 and b) Fish 3

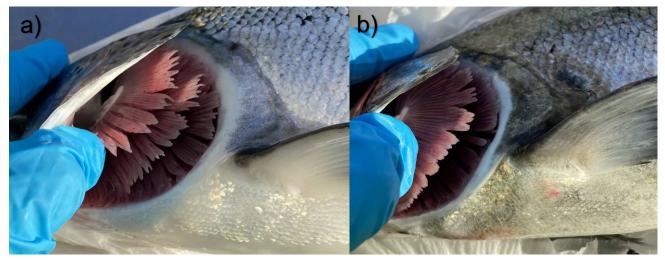


Figure 5 View of gills of a) Fish 2 and b) Fish 3



Figure 6 Internal view of Fish 2



Figure 7 Internal view of Fish 3.



Figure 8 Overview of the conditions of a) Fish 4 and b) Fish 5

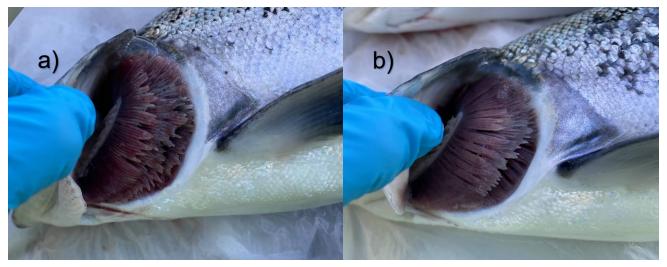


Figure 9 View of gills of a) Fish 4 and b) Fish 5



Figure 11 Internal view of Fish 4.



Figure 10 Internal view of Fish 5

FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020
Case No: 2022-0456			Date of visit: 19/10/2022
Time spent on site:	3hours	Main In	spector:
Site No: FS0502 Business No: FB0169	Site Name: Business Name:	Scotasay The Scottish Salmon Co	ompany
Case Types: 1 REP	2 DIA 3	4 5	6
Water Temp (°C): 12.2	Thermometer No:	T308	FHI 045 completed
Observations:	Region: WI	Water type: S	CoGP MA: W-8
Dead/weak/abnormally behaving Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?	• •	Y If yes, see additiona	al information/clinical score sheet. al information/clinical score sheet. al information/clinical score sheet.
UNI/REG only - if unable to carr	y out intended visit detai	il reason below:	

Additional Case Information:

Mortality events commenced from wk 26 2022. Gill health issues were attributed to cause of mortality on site, with PGD being main issue following increased plankton episode. Aeration increased to manage plankton burden as well as reduction in handling.

Slight anaemia also observed on site. Mechanical treatments planned were cancelled due to the fish not tolerating mechanical treatment. FW treatments commenced in WK 31 to aid gill issues experienced on site. From health screening, initial results were positive for AGD, Brachiomonas cysticola and paranucleospora theridion. Functional feed scheduled for Wk32. mortalities remained high and constant following second round of FW treatments in Wk36.

Mortality events 2022 (all attributed to gill health and bacterial disease as described in recent disease problems):

Wk37, 7385, 1.96% WK36, 6797,1.77% Wk35, 6832, 1.75% Wk34, 8137, 2.05% Wk33, 14021, 3.30% Wk32, 26251, 5.97% Wk31, 29022, 6.18% Wk30, 26868, 5.41% Wk29, 9155, 1.81% Wk28, 11019, 2.13% Wk27, 7427, 1.41% Wk26, 6841, 1.29%

Five fish were removed during the site inspection for diagnostic sampling purposes. All fish were observed to have liver colours of 2/3 as well as no food and yellow pseudofaeces present on examination. In addition, some hearts were observed to be pale and slightly enlarged. Pen two and three were observed to have an increased amount of moribund and lethargic fish on inspection. During site inspection, pen 8 was being treated with freshwater with a new wellboat- Ronja Star - as lice were increasing on site.

Cleanerfish mortality (wrasse and lumpfish) 2022: Wk18, 8405, 14.80% (FW treatment) Wk19, 17029, 35.18% (black losses) WK23, 4990,16.56% (black losses) Wk24, 4687, 18.65 (black losses)

FHI 059, Version 13		Issue	ed by: FHI	Date of issue: 12/05/2020							
Case No:	2022-0456]	Site No:	FS0502							
Data of Minite		40/40/000									
Date of Visit:		19/10/202	2	Inspector(s):							
Registration/Autho	risation Details										
1. Business/site deta	ails summary checke	d by site representat	tive?								
2. Changes made to	details?										
Site Details (includ	e cleaner fish for al	l sections)									
Total No facilities		8	Facilities stocked	8							
Species	SAL	WRS	LUM								
Age group	Q1 2021	wild caught	2021								
No Fish	327,112	5,862	10,113								
Mean Fish Wt	3.6kg	mix	Mix								
Next Fallow Date (S	Ilow Date (Site) late Q1 or Q2 2023 Next Input Date (
Recent (last 4 wks)	Recent (last 4 wks) disease problems? YAny escapes (since I										
If yes, detail: Pasturella skyensis, CMS, AGD, PGD											
 Date of last inspective of last inspec	plete and correctly en cords available for de plete and correctly en ates for introductions	tered? ead fish and waste? tered? (outwith GB) availal on behalf) of the bus tenance of transport	siness (not using a ST	B)?							
2. How are mortalitie	· · · · · ·			Other (detail)							
If other detail:	Disposed of at Whit	eshore Cockles		• • •							
3. Mortality records	complete and correct	ly entered?									
4. Recent mortality (2022: Wk41, 0.81%	, 2662; Wk40, 0.94%, 3129; Wk39, 7.64%,							
	nt increased/atypical		-								
If yes, facility nos/no	mortality per facility/	no stock per facility/	reason:								
•	n mortality during per										
If yes, detail:	see additional inform										
	unexplained) mortalit	les been reported to	vet of FHI?								
If yes, detail action:	(.]]		L. (. 1)								

8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.

The stars and shared Ma	diaina a Daaanda		
Treatments and Me			
1. Recent treatments	s (see comment)?		
If yes, detail:			
If other, detail:	FW treatment		
2. Medicines records	available for inspect	ion?	
3. Are records comp	lete and correctly ente	ered?	
4. Are fish in a withd	rawal period?		
5. If yes, what treatm	ient(s)?		
If other, detail:			
6. Are medicines sto	red appropriately?		
Biosecurity Record	s		
1. Biosecurity record	s available for inspec	tion?	
2. Has the manner a	nd frequency of mort	ality removal, recording and safe disposal	been considered?
3. Has the manner a	nd period in which the	e APB will notify Scottish Ministers or veter	rinary professional of any increased (unex
included?			
4 Has the action that	t will be taken in the a	event that the presence or suspicion of the	presence of a listed disease is detected h

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 b 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, ce

6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission 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 he8. Have the biosecurity procedures been adequately implemented on site?

If no, detail:

Results of Surveillance

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

2. If yes, are results available for inspection?

3. Any significant results?

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

Pasteurella Skyensis PGD and CMS confi

Records check

		l
Ī	Ý	
1	N	
No facilities inspected	I	8
luon 2022		
Juen 2023 ast visit)?		N
7	00/40/0004	Y
Ľ	08/12/2021	Y
		Y
		Y
		N/A
		· · · · · · · · · · · · · · · · · · ·
		Y
		Y
27506; Wk38, 2.19%	8081	
		N
		Y
		N/A
		Y

	Ν
	Y
	Y
	N
	Y
	·
plained) mortality at the site been	
, , ,	
een included and how and when that	
rtification if required)?	
. ,	
f disease been covered (movement of	
ld on site?	
	Υ
	Y
	Y
and PRV confirmed on 2/10/2022. Priot rmed on site.	to this report AGD,

FHI 059, Version 13				Issued by: FHI		
Case no:	2022-0456	Site No:	FS0502	Date of visi Sampling:	t/ 19/10/2022 1	9/1
Priority samples:	VI	ВА	PA	MG	н	
Time sampling starts/ends:	12:18:00	14:25:00	Inspector:		VMD No.	0
Environmental conditions:	1 Windy	2 Sunny	3	4	5	
Summary samples	HIST Y	BA Y	MG Y	VI	PA Total Samples	s

Add Fish/Pools - click

h nos ol Group ecies erage weight	1 SAL	2 SAL	3	4	5				
ecies		SAL							
		SAL							
erage weight			SAL	SAL	SAL				
	3.6kg	3.6kg	3.6kg	3.6kg	3.6kg				
х	N/A	N/A	N/A	N/A	N/A				
ater Type	SW	SW	SW	SW	SW				
	Hatchery	Hatchery	Hatchery	Hatchery	Hatchery				
		k Origin K Origin		vition vitication viticatio vitication vitication vitication vitication vitication vitic		viliation viliatio viliation viliation viliation viliation viliation viliati	2) Hat 20	2) Hat 2)	

10/2022	0/2022 Additional Sample Information:														
				3-12:35.	F2 sam	pled fror	n 12:46	-1 <u>3:10</u> . I	F3 and F	-4 samp	led fron	n 13:15-	14:00. F	5 samp	led
	from 14	:05-14:4	45.												
5	1	Total To	ests ass	ianed	4	1									
	5 Total Tests assigned 4														

FHI 059, Versio	on 13		lss	ued by:	FHI			Dat	e of issue: 12/0	05/20
Case no:	2022-0456		Site N	0:	FS050)2	Method of	of killing:	Anaesthetic]
Date of visit:	19/10/20	022	Inspec	ctor(s):				Sheet R	elevant: Y	<u>.</u>
	aa. M far madium processo: W	for wook pro								
Fish Number	nce: M for medium presence: W	Tor weak pres		3	4	5				7
	er death (if > 45 minutes)		_		-			_		t i
External Signs	Ŷ,]
Behaviour	Moribund	W	W	W	М	W				
	Lethargic	S	S	S	S	S				4
	Hanging vertical		_		-			_		4
	Spiralling Flashing							_		-
	Loss of equilibrium									-
Body	Dark							_		t i
	Distended abdomen									1
	Anorexic									
	Scale Oedema									
Opercula	Shortened									4
Haemorrhaging	Flared Throat									4
naemormaging	Ventrum									4
	Base of fins									1
	Elsewhere									1
Eyes	Exophthalmic	S								
	Enophthalmic (sunken)				S]
	Cataract				S			_		4
0.11	Haemorrhagic	S S	6	S	6			_		-
Gills	Pale Zoned	S	S S	S	S S	W		-		-
	Necrotic	3	5	5	5					-
Lesions	Flank									
	Elsewhere									
Vent	Inflamed]
	Trailing faeces									
Lice Load	Estimate numbers		1		4					
								_		4
Internal Signs Ascites	Clear							_		-
Ascilles	Bloody							-		-
Oedema	In tissues									
Heart	Pale/anaemic		S							1
	Granulomas									
	Deformed		М							
Liver	Petechial haem							_		4
	Gross haem							_		4
	Tissue breakdown Enlarged		-		-			-		4
	Colour number(s)	3	3 3	3 3	3	3		-		+
	Granulomas									1
	Lesions									T .
Pyloric caeca	Petechial haem]
	Tubules mauve									4
• •	Lack of fat	14/	14/		14/	14/				4
Spleen	Enlarged	W	W	W	W	W				4
Gut	Granulomas No food present	S	S	S	S	S				4
Gat	Yellow pseudo-faeces	S	S	IS S	S	S				4
	External haem									t i
	Internal haem									1
Body wall	Haemorrhaging									
Swim bladder	Haemorrhaging									1
	Fluid filled									4
Kidney	Swollen									4
	Grey Granular									4
	Liquefied									
General	Parasites present									1
	Anaemia									1
										-

Case no:	2022-0456
	-

Г

Date of visit:

19/10/2022

 ${\bf S}$ for strong presence: ${\bf M}$ for medium presence: ${\bf W}$ for w

	ice: M for medium presence: W for	N				 	
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						
Pyloric caeca	Petechial haem						
	Tubules mauve						
	Lack of fat						
Spleen	Enlarged						
	Granulomas						
Gut	No food present						
	Yellow pseudo-faeces						
	External haem						
	Internal haem						
Body wall	Haemorrhaging						
Swim bladder	Haemorrhaging						
	Fluid filled						
Kidney	Swollen						
	Grey						
	Granular						
	Liquefied						
General	Parasites present						
	Anaemia						

2022-0456

Case No:	2022-0456]		Date of visit:	19/10/2022]		
Site No:	FS0502]		Inspector:		I		
Results Summary	Freq.	-			te of Notifica		•	_
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
MG_AGDQ	0/5	26/10/2022		26/10/2022		08/11/2022		
MG_VHS	0/5	26/10/2022		26/10/2022		08/11/2022		
MG_IHNQ	0/5	26/10/2022		26/10/2022		08/11/2022		
MG_IPN	0/5	26/10/2022		26/10/2022		08/11/2022		
MG_ISA	0/5	26/10/2022		26/10/2022		08/11/2022		
MG_PARA_THER_Q	5/5	26/10/2022		26/10/2022		08/11/2022		
MG_PMCV	3/5	26/10/2022		26/10/2022		08/11/2022		
MG_PRV	5/5	26/10/2022		26/10/2022		08/11/2022		
MG_SAL_POX	5/5	26/10/2022		26/10/2022		08/11/2022		
MG_SAV	0/5	26/10/2022		26/10/2022		08/11/2022		
SHPU	1/5	04/11/2022		04/11/2022		08/11/2022		
SHPU	5/5	04/11/2022		04/11/2022		08/11/2022		
EPIT	1/5	03/11/2022		04/11/2022		08/11/2022		
GPAT	4/5	03/11/2022		04/11/2022		08/11/2022		
HPAT	5/5	03/11/2022		04/11/2022		08/11/2022		
CMPS	5/5	03/11/2022		04/11/2022		08/11/2022		
PASS	0/1	04/11/2022		04/11/2022		08/11/2022		

Report Summary			
Case Type	Date	Insp	2 nd Insp
REP, DIAG	08/11/20	22	
		_	
		_	
	_	_	
	_	_	
		_	





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 FB0169

 SITE NO
 FS0502

 CASE NO
 20220456

DATE OF VISIT19/10/2022SITE NAMEScotasayINSPECTORInspector

Section 1: Summary

The above site was inspected following reports of increased mortality by the farm operator. During the physical inspection of all pens, five fish were removed for diagnostic sampling.

Histopathology examination revealed pathology consistent with cardiomyopathy syndrome (CMS). F3 also exhibited filament lamellar adhesions as part of mild gill health issues and some epitheliocystis, likely due to *Brachiomonas* sp. in addition, F3 displayed some features resembling infections by *Pasteurella* sp. but bacteria were not observed on Gram stain.

Shewanella putrefaciens was identified on plates taken from gill and kidney material. The level of purity of growth would not suggest that this bacterium would be implicated as a primary pathogen and is likely to be of environmental origin.

Five fish tested positive for *Paranucleospora theridion,* piscine reovirus and salmon gill pox virus by qPCR. Three fish tested positive for piscine myocarditis virus (PMCV) the causative agent of cardiomyopathy syndromeby a 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

R09

Notifications of increased mortality above the reporting commenced week 26 2022. As a result, a site inspection was scheduled and conducted. On the day of site inspection, it was confirmed via internal health reports that *Pasteurella skyensis* and CMS were present on site. During the site inspection, a freshwater treatment in pen 8 was on-going. Across the site, many fish were seen to be lethargic. Pen two and three we observed to have an increased amount of moribund and lethargic fish. On inspection, gills were observed to be in poor condition and in many cases very pale. In addition, lice numbers had been increasing on site and a number of lice were observed on inspected fish.

All sampled fish were lethargic. Gills were found to be zoned in all and pale. Internally, yellow pseudofaeces was present in the hind gut of all sampled fish as well as pale livers.

Samples

Fish number	Facility number	Species	Stage	Origin
1	1	Atlantic Salmon	3.6kg 2021 Q1	Geocrab Hatchery (FS0562)
2	3	Atlantic Salmon	3.6kg 2021 Q1	Mingarry Hatchery (FS0145)
3-4	5	Atlantic Salmon	3.6kg 2021 Q1	Mingarry Hatchery (FS0145)
5	4	Atlantic Salmon	3.6kg 2021 Q1	Geocrab Hatchery (FS0562)

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

<u>Results</u>

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

The following bacterium were isolated:

- Shewanella putrefaciens
 - o Kidney material: F1, F2, F3, F4, F5
 - o Gill material: F2, F3, F4, F5

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

Fish Number	Endogenous control Cp value	,	Reported Result (PCR)		
F1	-	-	-	-	NEGATIVE
F2	-	-	-	-	NEGATIVE
F3	18.08	16.14	16.22	16.31	POSITIVE
F4	17.53	16.01	16.01	15.97	POSITIVE
F5	18.54	30.8	30.62	30.68	POSITIVE

Piscine myocarditis virus (PMCV)

Salmon gill pox virus

Fish Number	Endogenous control Cp value		Reported Result (PCR)		
F1	19.69	33.65	33.85	33.5	POSITIVE
F2	20.37	35.06	35.62	36.47	POSITIVE
F3	19.84	24.49	24.4	24.43	POSITIVE
F4	19.83	27.28	27.37	27.29	POSITIVE
F5	19.56	37.63	35.27	35.93	POSITIVE

R09

Piscine reovirus (PRV)

Fish Number	Endogenous control Cp value		Reported Result (PCR)		
F1	17.75	33.33	32.9	33.03	POSITIVE
F2	17.78	34.23	33.23	33.33	POSITIVE
F3	18.08	32.45	32.62	32.24	POSITIVE
F4	17.53	31.61	31.87	31.03	POSITIVE
F5	18.54	30.25	30.57	30.32	POSITIVE

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

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

Fish Number	Endogenous control Cp value		Reported Result (PCR)		
F1	19.69	29.7	29.53	29.75	POSITIVE
F2	20.37	31.2	31.46	31.13	POSITIVE
F3	19.84	27.85	27.62	27.83	POSITIVE
F4	19.83	26.5	26.57	26.45	POSITIVE
F5	19.56	29.61	29.46	29.49	POSITIVE

Paranucleospora theridion

The samples tested negative for Neoparamoeba perurans (AGD).

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

Histopathological examination revealed the following:

Gill: Filament hyperplasia and lamellar fusion and adhesions, mild, multifocal (F1, F2) and F3 displayed a more extended lamellar adhesion and presence of several lacunae in F3. F4 exhibited some diffuse irregular epithelium. Lamellar telangiectasia with multifocal thrombosis in F1 and F2.

Skin and Muscle: Small foci of inflammation and fibrosis surrounding muscle fibres.

Heart: Mild, multifocal myocarditis (F1, F2) and endocarditis (F3). F4 displayed endocarditis marked diffuse and F3 a milder one. F3 inflammation in the compact layer. Moderate epicarditis F3, F4, F5. F2: no atrium in section.

Gut and pyloric caeca: Mild peritonitis (F3, F5)

Pancreas: Within normal range.

Liver: Within normal range.

Kidney: Within normal range.

Spleen: F3 exhibited small area with multinucleated giant-like cells. Capulitis and peritonitis, mild (F3).



Signed:

Date: 08/11/2022

Fish Health Inspector

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

Scotasay Diagnostic Sample Pictures (20220456):



Figure 1 Overview of the condition of Fish 1



Figure 2 Gills of Fish 1



Figure 3 Internal view of Fish 1



Figure 4 Overview of the condition of Fish 2



Figure 5 Gills of Fish 2



Figure 6 Internal view of Fish 2. The black box shows the heart of Fish 2



Figure 7 Overview of the condition of a) Fish 3 and b) Fish 4



Figure 8 Internal view of Fish 3



Figure 9 Internal view of Fish 4



b)

Figure 10 Gills of a) Fish 3 and b) Fish 4



Figure 11 Overview of the condition of Fish 5



Figure 12 Internal view of Fish 5



Figure 13 Gills of Fish 5

FHI 059, Version 13	ł	Issued by: FHI	Date of issue: 12/05/2020		
Case No: 2022-0459			Date of visit: 03/10/2022		
Time spent on site:		Main Insp	ector:		
Site No:FS1321Business No:FB0125	Site Name: Business Name:	Barcaldine Hatchery Incub Scottish Sea Farms Ltd	ation 1		
Case Types: 1 ECI	2 CNI 3	4 5	6		
Water Temp (°C): 4.5	Thermometer No:	Site	FHI 045 completed		
Observations:	Region: ST	Water type: F	CoGP MA:		
Dead/weak/abnormally behaving fish present?YIf yes, see additional information/clinical score sheet.Clinical signs of disease observed?NIf yes, see additional information/clinical score sheet.Gross pathology observed?NIf yes, see additional information/clinical score sheet.Diagnostic samples taken?NIf yes, see additional information/clinical score sheet.					
UNI/REG only - if unable to carr	y out intended visit detail	l reason below:			

Additional Case Information:

Most recent mortality attributed to ova mortality or hatch fail. No treatments have been carried out on site for at least two years

yolk sac fry on site. A very small number of dead observed.

Site thermometer used for biosecurity reasons

FHI 059, Version 13		Issu	ied by: FHI		Date of	issue: 12/05/2020	
Case No:	2022-0459	Site No:	FS1321]			
Date of Visit:		03/10/2022		Inspector(s):			
Registration/Autho							
1. Business/site details summary checked by site representative? Y 2. Changes made to details? Y							
Site Details (includ	e cleaner fisl	n for all sections)					
Total No facilities		1 Facilities sto	ocked	1	No facilities inspec	ted 1	
Species	sal						
Age group No Fish	yolk sac fry						
Mean Fish Wt	1,351,509 <1g						
Next Fallow Date (Si	0	17/10/22	Next Input Da	ate (Site)	9/1/22		
Recent (last 4 wks) of	,			Any escapes (s		N	
If yes, detail:					,		
2. Date of last inspection: 27/04/2021 3. Are records complete and correctly entered? Y 4. Are movement records available for dead fish and waste? Y 5. Are records complete and correctly entered? Y 6. Are health certificates for introductions (outwith GB) available? Y Transport Records 1. Are any movements carried out by (or on behalf) of the business (not using a STB)? Y If yes, is there a system in place for maintenance of transportation records? Y							
Mortality Records	wailable far in	anastian?					
 Mortality records a How are mortalitie 		•		Ensiled - on site	<u>A</u>	'	
If other detail:		1		LIISING - OIT SIG	C		
3. Mortality records of	complete and	correctly entered?				Y	
4. Recent mortality (•		0.64%, wk37 0	.95%, wk36 0.84	4%, wk35 0.72%		
5. Evidence of recen						N	
If yes, facility nos/no mortality per facility/no stock per facility/reason:							
6. Any other peaks in mortality during period checked?							
6. Any other peaks in If yes, detail:	n mortality dui	ring period checked?				N	
•	(nexplained) r	nortalities been reported to	o vet or FHI?			N/A	
If yes, detail action:	noxplanted) i						
	ents' been rer	ported to FHI? If no, enter	details on mort	ality events she	et.	N/A	

Treatments and Medicines Records	
1. Recent treatments (see comment)?	Ν
If yes, detail:	
If other, detail:	
2. Medicines records available for inspection?	N/A
3. Are records complete and correctly entered?	
4. Are fish in a withdrawal period?	Ν
5. If yes, what treatment(s)?	
If other, detail:	
6. Are medicines stored appropriately?	N/A
Biosecurity Records	
1. Biosecurity records available for inspection?	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal be	
3. Has the manner and period in which the APB will notify Scottish Ministers or vetering	ary professional of any
increased (unexplained) mortality at the site been included?	Ý
4. Has the action that will be taken in the event that the presence or suspicion of the p	
is detected been included and how and when that will be notified to Scottish Ministers	
5. Has the health status of aquaculture animals being stocked on the farm site been of	overed (equal or higher Y
health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidem	iological unit to minimica
transmission of disease been covered (movement of staff, visitors, equipment, live or	-
7. Is documentation available regarding the measures in place to maintain the physica	
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	· · · · · · · · · · · · · · · · · · ·
If no, detail:	· · · ·
Results of Surveillance	
1. Has any animal health surveillance been carried out by, or on behalf of, the busines	ss?
2. If yes, are results available for inspection?	Y
3. Any significant results?	Ν
If yes, detail (if not detailed under recent disease problems).	
Records checked between: 27/4/22- 28/9/22	

FRI 059, Version 13		ISSUED Dy. FHI			Duio		12/05/2020
Case Number:	2022-0459		Site No:	FS1321		Insp:	
Date of Visit	03/10/2022		No of mo	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of m	novements on from equivalent MS	0	5	10	14	
with GB) of susceptible species		novements on from equivalent zone or including third country	0	9	18	26	9
	Number of sup		0	-	10	14	5
Movements off	Frequency of m	novements off	0	3	6	10	3
	Number of dest		0		6		3
Exposure via water		Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species	Farm is protect disinfection or l	ed (secure water supply through	0				0
susceptible to same diseases)	Farm is on-line	or in a coastal zone with category I or within 1 tidal excursion	1	2	4		
	Farm is on-line	or in a coastal zone with category III	1	3	6		
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	0				0
	Processing own	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
	equivalent statu		4				
		from Category III farm	8				
	Processing fish	from Category V farm	10				
	Site's own was	te only processed.	0				
products	Common proce	esses with other farms	3				3
	Collection point	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0	ĺ			0
	Feeding unpas	teurised feed	5				
Biosecurity		Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		2
	Sites sharing s	taff and equipment	0	1	2		2
Disinfection of equipment	Yes		0	1			0
between sites, use of footbaths etc	No		1				
CoGP/Regulator							
Practices in accordance with regulator or industry	Yes		0				0
code of practice	No		3				
Platform access to cages	Yes		0				0
	No		2				
					Total Rank		27 HIGH

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2022-0459	Site No:	FS1321
Sea Lice Inspection (Seawater Sites Only)		
 Has the site experienced sea lice problems Is the CoGP Farm Management Area (or end) 	in the previous 4 years? quivalent) fallowed synchronously on a single ;	year class basis?
3. Does the site have access to a range of lice	enced in-feed and bath sea lice medications (in well as access to suitable biological and/or med	ncluding deltamethrin,
4. Is there a signed documented farm manage Management Area (or equivalent)?	ement agreement or statement relevant to the s	site and CoGP Farm
5. Are sea lice count records available for insp6. Do records adequately reflect the required	pection? (Legal SSI, CoGP Annex 6) standard specified in the SSI and the CoGP? (I	Legal SSI, CoGP Annex 6)
7. Are sea lice (<i>L. salmonis</i>) record levels bel records are inspected? (CoGP Annex 6)	ow the suggested criteria for treatment in the C	CoGP during the period that
8. Have average adult female sea lice (<i>L. salr</i> 2 or above (from w/b 10/6/19) during the period	<i>nonis</i>) numbers per fish been at a level of 3 or of that records are inspected?	above (prior to w/b 10/6/19) or
If yes, have these been reported to the Fish H 9. Is <i>C. elongatus</i> infestation at a level which	lealth Inspectorate? If no, FHI see comment. is considered to cause significant welfare prob	lems? (CoGP 4.3.81, 5.3.50)
	stered or other actions taken when <i>L. salmonis</i> <i>longatus</i> is considered to have welfare implica	
13. Are treatments, where conducted, carried	pplicable)? s taken had a significant impact upon the lice le out in cooperation between participating farms where fewer populations or part populations ar	?
15. Is there a site specific written lice manage scenarios during the escalation of a sea lice in	ment procedure with waypoints describing set nfestation?	actions to deal with recognised
16. Do the sea lice levels observed on stocks	reflect sea lice count data? If no please detail	reasons.
	ge due to predators in the current or previous p he predation experienced on site? (Detail belov	
If other, detail below:		
If Yes proceed with questions 4 – 9. If No skip 4. Have these been reported to Scottish Minis 5. Have these been reported to local DSFB fo	-	4.17)
7. Were methods (if any) used to recover esc	apees? If yes give detail	
Ministers? (Legal, CoGP – 4.4.38, 5.4.18) 9. What action was taken to prevent and mini	preed with local wild fish interests and was perm mise the risk of further escapes? (Not covered	
be considered under satisfactory measur 10. Is the site inspected as satisfactory with re	es of the Act) egards to containment? If no, please detail reas	son(s)

Case No:	2022-0459]		Date of visit:	03/10/2022	2		
Site No:	FS1321]		Inspector:		I		
Results Summary	Freq.				te of Notifica			
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
							-	
					-		-	
	ļ							

Report Summary			
Case Type	Date	Insp	2 nd Insp
ECI, CNI	14/10/202	2	





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0125 SITE NO FS1321 CASE NO 20220459 **DATE OF VISIT** 03/10/2022 SITE NAME INSPECTOR

Barcaldine Hatchery Incubation 1

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

The surveillance frequency category of the site was assessed as 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:

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

R04

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

On this occasion the site was found to be satisfactory.

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



Date: 14/10/2022

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

FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020
Case No: 2022-0460			Date of visit: 03/10/2022
Time spent on site:		Main Insp	ector:
Site No: FS1323 Business No: FB0125	Site Name: Business Name:	Barcaldine Hatchery Incub Scottish Sea Farms Ltd	pation 3
Case Types: 1 ECI	2 CNI 3	4 5	6
Water Temp (°C): 5.9	Thermometer No:	Site	FHI 045 completed
Observations:	Region: ST	Water type: F	CoGP MA:
Dead/weak/abnormally behaving Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?	• •	N If yes, see additional i	nformation/clinical score sheet. nformation/clinical score sheet. nformation/clinical score sheet.
UNI/REG only - if unable to carr	y out intended visit detai	l reason below:	

Additional Case Information:

Resent mortality low but attributed to hatch fail. No treatments in over two years.

Very small number of dead fry observed.

site thermometer used for biosecurity reasons.

FHI 059, Version 13		Is	sued by: FHI			Date of issue	e: 12/05/2020
Case No:	2022-0460	Site No:	FS1323	3			
Date of Visit:		03/10/2022		Inspector(s):			
Registration/Autho							
 Business/site deta Changes made to 	•	checked by site represe	ntative?			Y Y	
Site Details (includ	e cleaner fis						
Total No facilities		1 Facilities s	stocked	1	No facilitie	es inspected	1
Species Age group	sal first feed						
No Fish	882,577						
Mean Fish Wt	<1g						
Next Fallow Date (S		17/10/22	Next Input D	ate (Site)	9/1/23		
Recent (last 4 wks)	disease probl	ems?		N Any escapes	(since last	visit)?	N
If yes, detail:							
 5. Are records comp 6. Are health certific Transport Records 1. Are any movement If yes, is there a system 	ction: olete and corre cords availabl olete and corre ates for introc nts carried our	ectly entered? le for dead fish and wast	ailable? business (not us			07/12/2021	Y Y Y Y
Mortality Records 1. Mortality records a	available for i	nspection?					Y
2. How are mortalitie		•		Ensiled - on s	site		
If other detail:							
3. Mortality records of	•	correctly entered?					Y
4. Recent mortality (• •		38 1.68%, wk37 (0.14%, wk36 0	, wk35 0.12	2%	
5. Evidence of recen							N
If yes, facility nos/no	mortality per	facility/no stock per facil	lity/reason:				
	n mortality du	rring period checked?					N
If yes, detail:							N/A
If yes, detail action:	inexplained) i	mortalities been reported	a to vet or FHI?				IN/A
	vents' been re	ported to FHI? If no, ente	er details on mor	rtalitv events sł	neet.		N/A

Treatments and Medicines Records	
1. Recent treatments (see comment)?	N
If yes, detail:	
If other, detail:	
2. Medicines records available for inspection?	N/A
3. Are records complete and correctly entered?	
4. Are fish in a withdrawal period?	N
5. If yes, what treatment(s)?	
If other, detail:	
6. Are medicines stored appropriately?	N/A
 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 <i>increased (unexplained)</i> 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 	Y Y Y Y
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	Y
If no, detail:	
Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business? 2. If yes, are results available for inspection?	Y Y
3. Any significant results?	N
If yes, detail (if not detailed under recent disease problems).	
Records checked between: 7/12/21-28/9/22	

FRI 059, Version 13		ISSUED Dy. FHI			Duio		12/05/2020
Case Number:	2022-0460		Site No:	FS1323		Insp:	
Date of Visit	03/10/2022		No of mo	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of m	novements on from equivalent MS	0	5	10	14	
with GB) of susceptible species		novements on from equivalent zone or including third country	0	9	18	26	g
	Number of sup		0	-	10	14	5
Movements off	Frequency of m	novements off	0	3	6	10	3
	Number of dest		0		6		3
Exposure via water		Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species	Farm is protect disinfection or l	ed (secure water supply through	0				0
susceptible to same diseases)	Farm is on-line	or in a coastal zone with category I or within 1 tidal excursion	1	2	4		
	Farm is on-line	or in a coastal zone with category III	1	3	6		
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		0
On farm processing within the rules of the directive	No on farm pro	cessing	0				0
	Processing own	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
	equivalent statu		4				
	_	from Category III farm	8				
	Processing fish	from Category V farm	10				
	Site's own was	te only processed.	0				
products	Common proce	esses with other farms	3				3
	Collection point	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0	ĺ			0
	Feeding unpas	teurised feed	5				
Biosecurity		Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		2
	Sites sharing s	taff and equipment	0	1	2		2
Disinfection of equipment	Yes		0	1			0
between sites, use of footbaths etc	No		1				
CoGP/Regulator							
Practices in accordance with regulator or industry	Yes		0				0
code of practice	No		3				
Platform access to cages	Yes		0				0
	No		2				
					Total Rank		27 HIGH

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2022-0460	Site No:	FS1323
Sea Lice Inspection (Seawater Sites Only)		
1. Has the site experienced sea lice problems		
2. Is the CoGP Farm Management Area (or e		
3. Does the site have access to a range of lic azamethiphos and emamectin benzoate) as can these be deployed in a reasonable period	well as access to suitable biological and/or me	
4. Is there a signed documented farm manag Management Area (or equivalent)?	ement agreement or statement relevant to the	site and CoGP Farm
5. Are sea lice count records available for ins	pection? (Legal SSI, CoGP Annex 6)	
6. Do records adequately reflect the required	standard specified in the SSI and the CoGP?	(Legal SSI, CoGP Annex 6)
7. Are sea lice (<i>L. salmonis</i>) record levels be records are inspected? (CoGP Annex 6)	low the suggested criteria for treatment in the	CoGP during the period that
8. Have average adult female sea lice (<i>L. sali</i> 2 or above (from w/b 10/6/19) during the period	· ·	r above (prior to w/b 10/6/19) or
If yes, have these been reported to the Fish H 9. Is <i>C. elongatus</i> infestation at a level which	•	blems? (CoGP 4.3.81, 5.3.50)
10. Have therapeutic treatments been admini suggested criteria for treatment or where C .		
11. Has any other action been taken (where a12. Have therapeutic treatments or the action		levels recorded?
13. Are treatments, where conducted, carried	out in cooperation between participating farm	s?
14. Is there a harvesting strategy for the site, sea lice?	where fewer populations or part populations a	re held without treatment for
15. Is there a site specific written lice manage scenarios during the escalation of a sea lice it		t actions to deal with recognised
16. Do the sea lice levels observed on stocks	reflect sea lice count data? If no please detai	l reasons.
Containment Inspection		
1. Has the site experienced equipment damage	ne due to predators in the current or previous	production cycles?
2. Are measures in place to mitigate against t		
indoors		
If other, detail below:		
3. Have escape incidents or events been exp	perienced on or in the vicinity of the site since	the last FHI inspection? N
If Yes proceed with questions 4 – 9. If No skip		
4. Have these been reported to Scottish Minis		
5. Have these been reported to local DSFB for		
6. Have these been reported to the SSPO and	d local fisheries trusts forthwith (where they ex	(dst)? (CoGP – 4.4.37, 5.4.17)
7. Were methods (if any) used to recover esc	apees? If yes give detail	
8. If gill nets were deployed was this action ag Ministers? (Legal, CoGP – 4.4.38, 5.4.18)	greed with local wild fish interests and was per	mission given by Scottish
9. What action was taken to prevent and mini	mise the risk of further escapes? (Not covered	d in code but could
be considered under satisfactory measure		
-	egards to containment? If no, please detail rea	ason(s) Y

Case No:	2022-0460]		Date of visit:	03/10/2022	2		
Site No:	FS1323]		Inspector:		I		
Results Summary	Freq.				ate of Notifica	ition		
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
					_			
					-		-	
							-	
			-					
	1							

Report Summary			
Case Type	Date	Insp	2 nd Insp
ECI, CNI	14/10/2022		





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0125 SITE NO FS1323 CASE NO 20220460 **DATE OF VISIT** 03/10/2022 SITE NAME INSPECTOR

Barcaldine Hatchery Incubation 3

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

The surveillance frequency category of the site was assessed as 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:

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

R04

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

On this occasion the site was found to be satisfactory.

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



Signed:

Date: 14/10/2022

Fish Health Inspector

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

FHI 059, Version 13		Issued by: FHI	Date of issue: 12/05/2020
Case No: 2022-0463			Date of visit: 05/10/2022
Time spent on site: 2	hours	Main Inspe	ctor:
Site No: FS1067 Business No: FB0456	Site Name: Business Name:	Inverawe (East) Etive 2 Dawnfresh Farming Ltd	
Case Types: 1 ECI 2	2 CNI 3 SLI	4 VMD 5	6
Water Temp (°C): 13.2	Thermometer No:	T146	FHI 045 completed
Observations:	Region: ST	Water type: S	CoGP MA M-36
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	N If yes, see additional in	formation/clinical score sheet. formation/clinical score sheet. formation/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit deta	il reason below:	

Additional Case Information:

Mort reports; 29/8/22 1.63% (6593 fish) furunculosis.12/9/22 6.17% 14878 fish, plankton bloom.

Fish input; splits from other Etive sites and Rocks lodge in January.

All fish were vaccinated for Furunc. Etive 2 and 3 have had antibiotic treatment.

Aquatet treatment 1/8/22 to 9/8/22 - withdraw period ended 26/9/22. Currently on withdrawal for Azasure (azamethiphos) in pens E1 and E6.

Health reports; 12/7/22 - furunculosis, Piscine orthoreovirus (HSMI). 14/9/22 Brachiomonas cysticola and paranucleospora theridion

Certificate available for import 18/5/22; wrong number and site destination but they had consulted with at the time and email correspondence available to view.

On site inspection 3 dead fish were observed. No moribund fish were observed.

Lice numbers 17/9/22 3.1 average adult female, 24/9/22 5.4 average adult female. No lice damage to the head area of the fish on inspection. Grazing damage - grey skin observed on the dorsal surface of some fish. Two well boats available next week for treatment of all the Etive sites and tarp treatments planed at Etive 2 and 3. Very heavy and persistent rain will reduce the salinity in the loch and it is hoped that this will reduce reinfection post treatments.

FHI 059, Version 13			lssu	ued by: FHI			Date of issue	e: 12/05/2020		
Case No:	2022-0463		Site No:	FS1067	<u></u>					
Date of Visit:		05/10/2022			Inspector(s):					
Registration/Autho 1. Business/site deta	ails summary o		te represent	ative?			Y]		
2. Changes made to	details?						Y			
Site Details (includ	e cleaner fis									
Total No facilities		6	Facilities sto	ocked	6	No facilitie	es inspected	6		
Species	RTR 2012									
Age group No Fish	2012-2022									
Mean Fish Wt	276,831 728a									
Next Fallow Date (Si	728g ite)	Dec 2022		Next Input Da	ate (Site)	Jan 2023				
Recent (last 4 wks)	· ·				Any escapes			N		
		, plankton[- gill	lissues		Any couper	(Since last	VISIC):			
Movement Records 1. Movement records available for inspection? 2. Date of last inspection: 3. Are records complete and correctly entered? 4. Are movement records available for dead fish and waste? 5. Are records complete and correctly entered? 6. Are health certificates for introductions (outwith GB) available? Transport Records 1. Are any movements carried out by (or on behalf) of the business (not using a STB)? If yes, is there a system in place for maintenance of transportation records? Mortality Records								Y Y Y Y Y		
1. Mortality records a		•						Y		
2. How are mortalitie	s disposed of	f?			Whole fish - I	Dundas Ch	emicals			
If other detail:										
3. Mortality records of	· · · · · · · · · · · · · · · · · · ·	-		12/2 0 47		0.070/		Ŷ		
4. Recent mortality (• •			urunc,12/9 6.17	/% plankton 1	9/9 0.07%, i	26/9/22 0.14%	0		
5. Evidence of recen		••						1		
		-	If yes, facility nos/no mortality per facility/no stock per facility/reason: pens E3 14854 fish (81724 fish in pen) and E4, 4222 fish (46483 fish in pen) attributed to plankton 12/9/22							
	(81/24 fish in		1000 E-L (A)	2.400 field in part) this stad to	I later 1	212122			
6. Any other peaks in mortality during period checked? If yes, detail: furunculosis 29/8/22 1.63% , 5/9 1.33%								Y		
It ves detail:	n mortality du	iring period che	ecked?		n) attributed to	o plankton 1	2/9/22	Y		
If yes, detail: 7 Have increased (i	n mortality dur furunculosis	ring period che 29/8/22 1.63%	ecked? % , 5/9 1.33%	%	n) attributed to	o plankton 1	12/9/22	Y		
If yes, detail: 7. Have increased (u If yes, detail action:	n mortality dur furunculosis unexplained) r	ring period che 29/8/22 1.63%	ecked? % , 5/9 1.33% en reported to	% to vet or FHI?	n) attributed te	o plankton 1	12/9/22	Y		

Treatments and Me	dicines Records		
1. Recent treatments	s (see comment)?		Y
If yes, detail:	Azasure		
If other, detail:			
2. Medicines records	s available for inspection?		Y
3. Are records comp	lete and correctly entered?		Y
4. Are fish in a withd	rawal period?		Y
5. If yes, what treatm	nent(s)?	Azasure	
If other, detail:			
6. Are medicines sto	ored appropriately?		Y
Biosecurity Record 1. Biosecurity record 2. Has the manner a 3. Has the manner a <i>increased</i> (<i>unexplain</i> 4. Has the action that is detected been incl	Is Is available for inspection? and frequency of mortality removal, reco and period in which the APB will notify S <i>ined</i>) mortality at the site been included at will be taken in the event that the pre- luded and <i>how</i> and <i>when</i> that will be n atus of aquaculture animals being stock	sence or suspicion of the presence of a listed disease	Y Y Y
transmission of disea 7. Is documentation aquaculture animals 8. Have the biosecu	ase been covered (movement of staff, available regarding the measures in pla		Y Y
 If yes, are results Any significant results If yes, detail (if not detail) 	ealth surveillance been carried out by, o available for inspection?		Y Y Y
furunculosis		7/42/24 5/40/22	
F	Records checked between:	7/12/21- 5/10/22	

F	HI 059, Version 13							lssu	ued by: F	FHI			
	Case no:	2022-04	463	Site No:		FS1067			Date of v		05/	10/2022	05/*
l	Priority samples:	VI		BA		PA		MG	Sampling	g: HI		I	
	Time sampling starts/ends:	11:3	80:00	12:3	0:00		Inspecto	or:			VMD No	o. [5
	Environmental conditions:	1	Indoors	2		3		4		5			
	Summary samples	HIST		BA		MG		VI		PA		Total Sa	mples
A	dd Fish/Pools - click												
	Pool/Fish No												
	Fish nos	1	2										
	Pool Group												
	Species	RTR	RTR										
	Average weight	500g	500g										
	Sex												
	Water Type	SW	SW										
Stock Details		Rocks Lodge	तु Rocks Lodge										
Sto	Facility No	I	E2										

10/2022	0/2022 Additional Sample Information:												
0 Total Tests assigned 0													

Issued by: FHI

FHI 059, Version 13		Issued by: FHI			Date	i issue	12/05/2020
Case Number:	2022-0463		Site No:	FS1067		insp:	
Date of Visit	05/10/2022		No of m	ovements/s	upp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out		novements on from equivalent MS	0	5	10	14	5
with GB) of susceptible species		novements on from equivalent zone or including third country	0	9	18	26	0
	Number of sup		0	5	10	14	5
Movements off	Frequency of n	novements off	0	3	6	10	6
	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	Farm is protect disinfection or	ed (secure water supply through	0				
susceptible to same diseases)	Farm is on-line	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		2
	farms upstrean	or in a coastal zone with category III n or within 1 tidal excursion	1	3	6		
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		1
On farm processing within	No on farm pro	cessing	0]			
the rules of the directive	Processing own	n fish (re-cycling risk)	1				1
	Processing fish	n from MS of equivalent status	2				
	Processing fish equivalent state	n from zone or compartment of us	4				
	-	n from Category III farm	8				
	Processing fish	n from Category V farm	10				
Disposal of fish and fish by-	Site's own was	te only processed.	0]			
products	Common proce	esses with other farms	3				3
	Collection poin	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0				0
	Feeding unpas	teurised feed	5				
Biosecurity		Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		2
	Sites sharing s	taff and equipment	0	1	2		2
Disinfection of equipment	Yes		0]			0
between sites, use of footbaths etc	No		1				
CoGP/Regulator	I			1			
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		30 HIGH

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2022-0463	Site No:	FS1067
	s in the previous 4 years? equivalent) fallowed synchronously on a single y	
	enced in-feed and bath sea lice medications (in well as access to suitable biological and/or med d of time?	
4. Is there a signed documented farm manag Management Area (or equivalent)?	ement agreement or statement relevant to the s	site and CoGP Farm Y
 5. Are sea lice count records available for ins 6. Do records adequately reflect the required 	pection? (Legal SSI, CoGP Annex 6) standard specified in the SSI and the CoGP? (I	Legal SSI, CoGP Annex 6) Y
7. Are sea lice (<i>L. salmonis</i>) record levels be records are inspected? (CoGP Annex 6)	low the suggested criteria for treatment in the C	COGP during the period that N
8. Have average adult female sea lice (<i>L. sali</i> 2 or above (from w/b 10/6/19) during the perio	<i>monis</i>) numbers per fish been at a level of 3 or od that records are inspected?	above (prior to w/b 10/6/19) or Y
If yes, have these been reported to the Fish H 9. Is <i>C. elongatus</i> infestation at a level which	Health Inspectorate? If no, FHI see comment. i is considered to cause significant welfare probl	lems? (CoGP 4.3.81, 5.3.50)
	istered or other actions taken when <i>L. salmonis</i> elongatus is considered to have welfare implication	
	is taken had a significant impact upon the lice le	
	I out in cooperation between participating farms where fewer populations or part populations are	
15. Is there a site specific written lice manage scenarios during the escalation of a sea lice it	ement procedure with waypoints describing set a infestation?	actions to deal with recognised Y
16. Do the sea lice levels observed on stocks	s reflect sea lice count data? If no please detail i	reasons. Y
Containment Inspection		
	ge due to predators in the current or previous p the predation experienced on site? (Detail below	
top nets seal pro nets If other, detail below:		
	perienced on or in the vicinity of the site since th	ne last FHI inspection? N
If Yes proceed with questions 4 – 9. If No skip 4. Have these been reported to Scottish Minis		
•	orthwith (where they exist)? (CoGP – 4.4.37, 5.4	4.17)
	d local fisheries trusts forthwith (where they exis	
7. Were methods (if any) used to recover esc	capees? If yes give detail	
8. If gill nets were deployed was this action as Ministers? (Legal, CoGP – 4.4.38, 5.4.18)	greed with local wild fish interests and was pern	nission given by Scottish
9. What action was taken to prevent and mini be considered under satisfactory measu	imise the risk of further escapes? (Not covered res of the Act)	in code but could
-	regards to containment? If no, please detail reas	son(s)

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2022-0463	Site No: FS1067	
Date of Visit: 05/10/202	2 Inspector:	
Point of Compliance 1. Is the farm under inspection located If N, no further questions require comp	-	Y
 Has a current farm management ag Is the current FMAg/S available for i Does the FMAg/S identify the releva Does the FMAg/S identify the fish fa Does the FMAg/S identify the date o Does the FMAg/S identify the date o 	nt farm management area? rm site(s) to which it applies? f commencement of the agreement or state f review?	ared? Y Y Y
Arrangements for Fish Health Manager 8. Does the FMAg/S identify the minime farm?	gement um health standards for the stocks to be int	roduced to the area or Y
10. Does the FMAg/S identify the spec	nation requirements for stocks held in the ar ies of fish which may be stocked into the ar mum stocking density of any pen on any far	ea or farm? Y
	ngements for the storage and disposal of an arm?	y dead fish from any Y
Arrangements for The Management 13. Does the FMAg/S identify arranger	of Sea Lice nents for the sharing of data on sea lice nur	nbers and treatments? Y
14. Does the FMAg/S identify the availant of statement?	ability and the use of medicines on farms co	overed by the agreement Y
15. Does the FMAg/S identify any require on farms in the area or individual fa	irements for the sensitivity testing of availat arms?	ble treatments for sea Y
	mstances under which biological controls a	
	agements for synchronous treatments on fai	rms within the area?
Live Fish Movements 18. Does the FMAg/S identify the circu area or farm?	mstances when live fish may be introduced	or removed from the Y nd off sites in the area Y
19. Does the FMAg/S identify the arran or individual farms?	ngements for the movement of live fish on a	nd off sites in the area Y

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Harvesting 20. Does the FMAg/S identify acceptable	harvest practices on farms in the area or indivi	dual farms?
Fallowing		
21. Does the FMAg/S identify the dates b date when a farm or area may be restock	y which the area or individual farm will be fallow ed?	v and the earliest Y
22. Does the FMAg/S identify whether on agreement or statement?	e or more year classes may be stocked onto si	tes covered by the Y
23. Does the FMAg/S identify whether bro covered by the agreement or statement?	oodstock or potential broodstock are to be kept	on any site Y
Point of Compliance for Farm Manager		N1/A
24. Does the farm management agreement parties to the agreement?	ent include arrangements for persons to becom	e, or cease to be, N/A
Management and operation		
25. Is the fish farm being managed and o 26. What is the version no/date of issue o	perated in accordance with the agreement or s of the FMAg/S?	tatement? Y

Case No:	2022-0463]		Date of visit:	05/10/2022			
Site No:	FS1067]	Inspector:					
Results Summary	Freq.			Da	te of Notificat	tion		
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
	1							

Bonort Summon			
Report Summary			
Case Type	Date	Insp	2 nd Insp
ECI, CNI,SLI,VMD	14/11/2022		

marine scotland science



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 FB0456

 SITE NO
 FS1067

 CASE NO
 20220463

DATE OF VISIT05/10/2022SITE NAMEInverawe (East) Etive 2INSPECTORInverawe (East) Etive 2

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

The surveillance frequency category of the site was assessed as 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:

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

R25

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.

Sianed: Fish Health Inspector

Date: 14/11/2022

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

FHI 059, Version 13	Issue	ed by: FHI	Date of issue: 12/05/2020
Case No: 2022-0464			Date of visit: 05/10/2022
Time spent on site:	1 hour	Main Inspecto	pr:
Site No: FS1101 Business No: FB0456	Site Name: Business Name:	Etive 3 (Port na Mine) Dawnfresh Farming Ltd	
Case Types: 1 REP	2REG 3	45	6
Water Temp (°C):	Thermometer No:		FHI 045 completed
Observations:	Region: ST	Water type: S	CoGP MA: M-36
Dead/weak/abnormally behavir Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?		If yes, see additional infor	mation/clinical score sheet. mation/clinical score sheet. mation/clinical score sheet.
UNI/REG only - if unable to car	ry out intended visit detail rea	son below:	

Additional Case Information:

Mort events; 29/8/22 2.42% (6731 fish) furunculosis, 12/9/22 7.02% 26000 fish - plankton bloom

Plankton mainly effected pen P3.

Aquatet treatment 1/8/22 to 10/8/22. 19/9 Azasure wellboat treatment. Azasure and Alphamax tarp treatment week 19/9 and 26/9/22.

Surveillance frequency sheet completed as noted import on movement records. Surveillance frequency changed from Low to High. As site has been inspected in October 2022 it will be scheduled an ECI visit in 2023.

Site inspection carried out due to reported increased mort figures however numbers have now reduced to below the reporting threshold and no moribund fish were observed on site inspection. Dorsal sea lice grazing was observed but no head damage.

Four sites stocked in area, Lice numbers for average adult females are as follows; week 17/9/22 Etive 2 3.1, Etive 3 2.9, Etive 4 is 5.2, Etive 6 is 8.9; week 24/9/22 Etive 2 is 5.4, Etive 3 is 2.7, Etive 4 is 12.1, Etive 6 is 13.3

In the last two weeks in the area of Loch Etive 19 pens have been treated, 6 are on harvest plan and 4 remain to be treated. Have been using well boat and trap treatments, Azasure, Salmosan and Alphamax. Currently have two wellboats for the area, one for 8 days and one for two weeks. Recent heavy and persistent rain will reduce the salinity in the loch and hopefully reduce reinfection.

Had been harvesting at an increase level but the main harvest boat was pulled by company operators (not F0456) to work on their sites so rate of harvest has been greatly reduced. Hope to be getting the harvest boat back. Currently harvesting 12-14 tonnes/day but if they get the harvest boat back this can increase to 200 tonnes a week.

FHI 059, Version 13			Issu	ed by: FHI			Date of issue	e: 12/05/2020
Case No:	2022-0464		Site No:	FS1101]			
Date of Visit:		05/10/2022	l		Inspector(s):			I
Registration/Autho								_
1. Business/site deta	-	checked by s	ite representa	ative?			Y	
2. Changes made to	details?						IN	J
Site Details (includ	e cleaner fis	h for all secti	ions)					
Total No facilities		10	Facilities sto	cked	10	No facilitie	s inspected	10
Species	RTR							
Age group	2020-21-22							
No Fish	343,859							
Mean Fish Wt	1kg							
Next Fallow Date (S				Next Input Da	- · ·			
Recent (last 4 wks) of	disease probl	ems?		Y	Any escapes	s (since last	visit)?	N
If yes, detail:	furunculosis	and plankton	bloom					
Movement Records								
1. Movement record		r inspection?					00/40/0004	Ý
2. Date of last inspec		ath contained					06/10/2021	V
 Are records comp Are movement records 		•						
5. Are records comp								l V
6. Are health certification		•		blo?				N/A
			iti (GD) availa					10/7
Transport Records								
1. Are any movemer	nts carried ou	t by (or on bel	nalf) of the bu	isiness (not us	ing a STB)?			
If yes, is there a syst	tem in place f	or maintenan	ce of transpor	rtation records	?			
Mortality Records								
1. Mortality records a	available for i	nspection?						Y
2. How are mortalitie	es disposed o	f?			Whole fish -	Dundas Che	emicals	
If other detail:								
3. Mortality records of	complete and	correctly enter						Y
			29/8 2.4% fu	irunc, 5/9 0.3%	5, 12/9 7.02%	plankton, 19	9/9/ 0.31%, 26	6/9 0.17%
4. Recent mortality (
5. Evidence of recen				,				Ý
If yes, facility nos/no				/reason:				
pen 3 plankton bloo								V
6. Any other peaks in		0 1						Ý
If yes, detail:		- furunculosi						
7. Have increased (u	• •				10/0			Ŷ
If yes, detail action:				reatment 1/8-1		haat		
8. Have 'mortality ev	ents been re	ported to FHI	r if no, enter o	uetails on mor	ality events s	neet.		Y

Treatments and Medicines	Records				
1. Recent treatments (see c	omment)?				Y
If yes, detail:	Azasure	Alphamax	Aquatet		
If other, detail:					
2. Medicines records availab	ole for inspection	?			Y
3. Are records complete and	l correctly entere	d?			Y
4. Are fish in a withdrawal pe	eriod?				Y
5. If yes, what treatment(s)?			Azasure	Alphamax	
If other, detail:					
6. Are medicines stored app	ropriately?				Y
Biosecurity Records					
1. Biosecurity records availa	ble for inspection	n?			
2. Has the manner and frequencies	lency of mortalit	y removal, reco	ording and sa	fe disposal been considered?	
3. Has the manner and period	d in which the A	PB will notify S	cottish Minist	ters or veterinary professional of any	
increased (unexplained) mo	ortality at the site	been included	?		
4. Has the action that will be	taken in the eve	ent that the pres	sence or susp	picion of the presence of a listed disease	e
is detected been included an	nd how and whe	n that will be n	otified to Sco	ttish Ministers?	
5. Has the health status of a	quaculture anim	als being stock	ed on the far	m site been covered (equal or higher	
health status, certification if	required)?				
				each epidemiological unit to minimise	
	•			oment, live or dead fish etc.)?	
7. Is documentation availabl aquaculture animals held on		neasures in pla	ace to mainta	in the physical containment of	
8. Have the biosecurity proc	edures been ade	equately implen	nented on site	e?	
If no, detail:					
Results of Surveillance					
1. Has any animal health su	rveillance been o	arried out by, c	or on behalf o	of, the business?	Y
2. If yes, are results availabl	e for inspection?				Y
3. Any significant results?					Y
If yes, detail (if not detailed u	under recent dise	ease problems)	-	furunculosis	
Records	checked betwee	en:	6/10/21-4/	10/22	

FHI 059, Version 13		Issued by: FHI			Date	J 13300	: 12/05/2020
Case Number:	2022-0464		Site No:	FS1101		Insp:	
Date of Visit	05/10/2022		No of mo	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	5
with GB) of susceptible species		novements on from equivalent zone or including third country	0	9	18	26	
	Number of sup		0	-	10	14	5
Movements off	Frequency of n	novements off	0	3	6	10	3
	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	Farm is protect disinfection or I	ed (secure water supply through porehole)	0				
susceptible to same diseases)	farms upstrean	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		
		or in a coastal zone with category V nor within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		1
On farm processing within the rules of the directive	No on farm pro	cessing	0				
	Processing own	n fish (re-cycling risk)	1				1
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent state	from zone or compartment of us	4				
	- C	from Category III farm	8				
	Processing fish	from Category V farm	10				
Disposal of fish and fish by-	Site's own was	e only processed.	0				
products	Common proce	esses with other farms	3				3
	Collection poin	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	npasteurised feed	0				0
	Feeding unpas	teurised feed	5				
Biosecurity		Number of sites	1	2 or 3	≥ 4		
Contacts with other sites		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				
Platform access to cages	Yes		0				0
	No		2				
					Total Rank		27 HIGH

Case No:	2022-0464]		Date of visit:	05/10/2022]		
Site No:	FS1101]		Inspector:		I		
Results Summary	Freq.			Da	te of Notifica	tion		
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
			-				-	
					-			
			-				-	

Case Type Date Insp 2 nd Insp Rep, reg 14/11/2022	Report Summary			-
Case Type Date Insp 2 nd Insp Rep, reg 14/11/2022 14/11/2022 14/11/2022 Image: Insp Image: Insp 14/11/2022 Image: Insp Image: Insp 14/11/2022				- nd -
Rep, reg 14/11/2022 Image: Constraint of the second sec			Insp	2 nd Insp
	Rep, reg	14/11/2022		

marinescotland science



FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0456 SITE NO FS1101 CASE NO 20220464

DATE OF VISIT 05/10/2022 SITE NAME INSPECTOR

Etive 3 (Port na Mine)

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 following reported increased mortalities.

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:

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

Signed:

R25

Date: 14/11/2022

Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB Email - ms.fishhealth@gov.scot Tel - 0131 244 3498 Website - https://www.gov.scot/policies/fish-health-inspectorate/ Fish Health Inspector

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

FHI 059, Version 13	Issu	ued by: FHI	Date of issue: 12/05/2020
Case No: 2022-0466			Date of visit: 04/10/2022
Time spent on site:	hours	Main Inspecto	pr:
Site No: FS0145 Business No: FB0444	Site Name: Business Name:	Mingarry Hatchery Hebridean Smolts Ltd	
Case Types: 1 ECI	2 CNI 3 VMD	4 5	6
Water Temp (°C): 10.5	Thermometer No:	Site	FHI 045 completed N/A
Observations:	Region: WI	Water type: F	CoGP MA
Dead/weak/abnormally behaving Clinical signs of disease observe 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 detail re	ason below:	

Additional Case Information:

Remote paperwork completed 28/09/22 by 20 & Site inspection and paper work completed by 20 , observed by 20 . New batch of eggs received on Friday 30th September of Stofnfiskur stock, due to go to sea in October 2023. The current stock on site has had a successful cycle with little mortality. From the physical inspection of the stock, no clinical signs of disease were observed. Fish have only been treated with Formalin this cycle and are not currently in withdrawal.

8 VMD samples taken by , observed by .

Water temperature taken using site thermometer due to biosecurity.

FHI 059, Version 13	}		Issu	ied by: FHI			Date of issu	ie: 12/05/2020
Case No:	2022-0466]	Site No:	FS0145	5			
Date of Visit:		04/10/202	2		Inspector(s):			I
Registration/Autho								-
1. Business/site det 2. Changes made to		/ checked by	site representa	ative?			Y N	-
·		. 	(i					-
Site Details (includ	de cleaner fi	44 +				1		44 +
Total No facilities		hatchery	Facilities sto	ocked	39	No facilitie	s inspected	hatchery
Species	SAL							
Age group	2022 S0							
No Fish	324,659							
Mean Fish Wt	74g	10 Oct 22		Next Innut De		20 Com 22		
Next Fallow Date (S Recent (last 4 wks)	· ·			Next Input Da	Any escapes	30 Sep 22		N
If yes, detail:	disease proc	Nems:			Any escapes	(SILCE IASL	visit):	IN
 Movement records Date of last inspection Are records completed. Are movement records completed. Are records completed. Are health certified. Transport Records Are any movement of yes, is there a system. Mortality Records Mortality records How are mortalititied. 	ection: plete and cor ecords availal plete and cor cates for intro s ents carried of stem in place available for es disposed	rectly entered ble for dead fi rectly entered ductions (out ut by (or on be for maintenar inspection? of?	? sh and waste? with GB) availa chalf) of the bu nce of transpo	able? usiness (not us rtation records	? Domestic wa			Y N/A N/A Y Y
lf a the an electral la		•	o domestic wa	aste, any culls o	or larger amou	ints of morta	alities would g	go to white
If other detail: 3. Mortality records	shore cock		torod2					
4. Recent mortality	•	a conectly en		39 - 78, Week	29 13 Maa	k 27 5 M/	ook 36 52	<u> </u>
5. Evidence of rece		atypical morta		39 - 70, Week	(50 - 45, Wee	K 37 - 5, VV	eek 30 - 32	N
If yes, facility nos/no		••		/reason:				
6. Any other peaks	in mortality d	uring period c	hecked?					N/A
If yes, detail:								
7. Have increased (mortalities be	een reported to	o vet or FHI?				N/A
If yes, detail action:								
8. Have 'mortality ev	vents' been r	eported to FH	1? If no, enter	details on mor	tality events sh	neet.		N/A

Treatments and Me	dicines Rec	ords			
1. Recent treatments	s (see comm	ent)?			Y
If yes, detail:		Formalin			
If other, detail:					
2. Medicines records	available for	r inspection?			Y
3. Are records comp	lete and corr	ectly entered?			Y
4. Are fish in a withd	rawal period?	?			N
5. If yes, what treatment	nent(s)?				
If other, detail:					
6. Are medicines sto	red appropria	ately?			Y
 Has the manner a <i>increased (unexplain</i> Has the action that is detected been included be	s available for nd frequency nd period in <i>ned</i>) mortality at will be take uded and <i>ho</i> atus of aquac ation if require ase been cov available reg	y of mortality removal, recom- which the APB will notify Sc y at the site been included? n in the event that the prese w and when that will be no- ulture animals being stocke red)? curity measures implement vered (movement of staff, vi arding the measures in place	ence or suspici tified to Scottis d on the farm s ed between ea sitors, equipme	s or veterinary professional of any ion of the presence of a listed disease ih Ministers? site been covered (equal or higher ich epidemiological unit to minimise	Y Y Y Y Y
· · · ·		: es been adequately impleme	ented on site?		Y
If no, detail:	ity procedure		ented on site :		
Results of Surveilla	ance				
1. Has any animal he	ealth surveilla	ance been carried out by, or	on behalf of, t	he business?	Y
2. If yes, are results	available for	inspection?			Y
3. Any significant res	sults?				N
If yes, detail (if not d	etailed under	recent disease problems).			
F	Records chec	ked between:	05/10/2021 - (04/10/2022	

FHI 059, Version 13				Issued by: FHI		
Case no:	2022-0466	Site No:	FS0145	Date of visit Sampling:	t/ 04/10/202	2 04/
Priority samples:	VI	BA	PA	MG	н	
Time sampling starts/ends:	16:00:00	16:20:00	Inspector:		VMD No.	8
Environmental conditions:	1 Indoors	2	3	4	5	
Summary samples	HIST	ВА	MG	VI	PA Total S	Samples

Add Fish/Pools - click

	Pool/Fish No										
	Fish nos	1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24		
	Pool Group										
	Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL		
	Average weight	75g	75g	75g	75g	75g	75g	75g	75g		
	Sex										
	Water Type	FW	FW	FW	FW	FW	FW	FW	FW		
tock Details	Stock Origin	Ormsary Hatchery FS0681	Ormsary Hatchery FS0682	Cormsary Hatchery FS0683	Ormsary Hatchery FS0684	Ormsary Hatchery FS0685	0 Ormsary Hatchery FS0686	Ormsary Hatchery FS0687	Crmsary Hatchery FS0688		
St	Facility No	32	32	31	31	26	26	21	21		

10/2022	Addition	hal Sam	ple Infor	mation:			 	 	 	 	
0	I	Total T	ests ass	igned	0	l –					
_											

Issued by: FHI

		Issued by. I Th			Date	01 13300	. 12/05/2020
Case Number:	2022-0466		Site No:	FS0145		Insp:	
Date of Visit	04/10/2022		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	
with GB) of susceptible species		novements on from equivalent zone or	0	9	18	26	0
	Number of sup	ncluding third country	0	5		14	5
Mayamanta off		•					
Movements off	Frequency of n Number of des		0	3	6	10 10	3
Exposure via water	Number of des	Site contacts		1-5			
Water contacts with other	Farm is protect	ted (secure water supply through					
farms (holding species	disinfection or	,	0				
susceptible to same diseases)	farms upstream	e or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		1
		e or in a coastal zone with category III	1	3	6		
	•	n or within 1 tidal excursion or in a coastal zone with category V		3	0		
		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	No on farm pro	ocessing	0				0
the rules of the directive	Processing ow	n fish (re-cycling risk)	1				
	-	n from MS of equivalent status					
	-	n from zone or compartment of					
	equivalent stat		4				
	_	n from Category III farm	8				
	Processing fish	n from Category V farm	10				
Disposal of fish and fish by-	Site's own was	te only processed.	0				
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 u	Inpasteurised feed	0	1			0
	Feeding unpas	•	5				<u> </u>
Biosecurity		Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		0
	Sites sharing s	taff and equipment	0	1	2		1
Disinfection of equipment	Yes		0	1			0
between sites, use of footbaths etc	No		1				
CoGP/Regulator	•		•	1			
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		30
					Rank		HIGH

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020			
Case No: 2022-0466	Site No:	FS0145			
3. Does the site have access to a range of lice	quivalent) fallowed synchronously on a single y enced in-feed and bath sea lice medications (in	cluding 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 documented farm management agreement or statement relevant to the site and CoGP Farm Management Area (or equivalent)?					
5. Are sea lice count records available for inspection? (Legal SSI, CoGP Annex 6) 6. Do records adequately reflect the required standard specified in the SSI and the CoGP? (Legal SSI, CoGP Annex 6)					
7. Are sea lice (<i>L. salmonis</i>) record levels bel records are inspected? (CoGP Annex 6)	ow the suggested criteria for treatment in the C	oGP during the period that			
8. Have average adult female sea lice (<i>L. saln</i> 2 or above (from w/b 10/6/19) during the period	<i>nonis</i>) numbers per fish been at a level of 3 or od that records are inspected?	above (prior to w/b 10/6/19) or			
If yes, have these been reported to the Fish Health Inspectorate? If no, FHI see comment. 9. Is <i>C. elongatus</i> infestation at a level which is considered to cause significant welfare problems? (CoGP 4.3.81, 5.3.50)					
suggested criteria for treatment or where C. e	stered or other actions taken when <i>L. salmonis</i> longatus is considered to have welfare implication				
	pplicable)? s taken had a significant impact upon the lice le out in cooperation between participating farms				
	where fewer populations or part populations are				
15. Is there 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?					
16. Do the sea lice levels observed on stocks reflect sea lice count data? If no please detail reasons.					
• • • • • • • • • • • • • • • • • • •					
	ge due to predators in the current or previous pr he predation experienced on site? (Detail belov				
If other, detail below:					
Site inside, tank covers/nets, pest control					
	erienced on or in the vicinity of the site since th	ne last FHI inspection?			
If Yes proceed with questions $4 - 9$. If No skip	•				
4. Have these been reported to Scottish Minis		4.47			
	rthwith (where they exist)? (CoGP – 4.4.37, 5.4				
6. Have these been reported to the SSPO and	d local fisheries trusts forthwith (where they exis	st)? (COGP = 4.4.37, 5.4.17)			
7. Were methods (if any) used to recover esca	apees? If yes give detail				
8. If gill nets were deployed was this action agreed with local wild fish interests and was permission given by Scottish Ministers? (Legal, CoGP – 4.4.38, 5.4.18)					
9. What action was taken to prevent and minimise the risk of further escapes? (Not covered in code but could					
be considered under satisfactory measures of the Act)					
10. Is the site inspected as satisfactory with regards to containment? If no, please detail reason(s) Y					

Site No: FS0145

Case No: 2022-0466

Nature of non-compliance:

Action taken (FHI):

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

Case No:	2022-0466			Date of visit:	04/10/2022	2		
Site No:	FS0145	l		Inspector:				
Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
					-			
	1							
	_	_						

Report Summary			
Case Type	Date	Insp	2 nd Insp
ECI, CNI, VMD	18/10/2022	-	
	_		
	_		
	_		
	_		
	-		





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No FB0444 SITE NO FS0145 CASE NO 20220466 **DATE OF VISIT** 04/10/2022 SITE NAME INSPECTOR

Mingarry Hatchery

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

The surveillance frequency category of the site was assessed as 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:

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory.

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

Signed:	
	Fish Health Inspector

Date: 18/10/2022

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

FHI 059, Version 13	ł	Issued by: FHI	Date of issue: 12/05/2020	
Case No: 2022-0467			Date of visit: 04/10/2022	
Time spent on site:	2 Hours	Main Inspec	tor:	
Site No: FS0398 Business No: FB0444	Site Name: Business Name:	Clachan Hatchery Hebridean Smolts Ltd		
Case Types: 1 MIX	23	4 5	6	
Water Temp (°C):	Thermometer No:		FHI 045 completed N/A	
Observations:	Region: WI	Water type: F	CoGP MA	
Dead/weak/abnormally behaving fish present?NIf yes, see additional information/clinical score sheet.Clinical signs of disease observed?NIf yes, see additional information/clinical score sheet.Gross pathology observed?NIf yes, see additional information/clinical score sheet.Diagnostic samples taken?N				
UNI/REG only - if unable to carry out intended visit detail reason below:				

Additional Case Information:

MIX inspection paper work and site inspection conducted by many, observed by

The site last conducted feed mixing in August 2021 for a 10 day Aquatet treatment.

FHI 059, Version 13			Issue	ed by: FHI			Date of issue	e: 12/05/2020		
Case No:	2022-0467	Site	te No:	FS0398						
Date of Visit:		04/10/2022			Inspector(s):					
Registration/Autho 1. Business/site deta 2. Changes made to	ails summary		epresenta	itive?			Y N			
Site Details (includ	le cleaner fis	h for all sections	s)							
Total No facilities			cilities stoc	cked	12	No facilitie	es inspected	12		
Species	SAL									
Age group	2021 S0s									
No Fish Moon Fish W/t	420,000									
Mean Fish Wt	70g	14th October		Next Input Da		Octobor 2	000			
Next Fallow Date (S				Next Input Dat	Any escapes	October 20		N		
Recent (last 4 wks) of If yes, detail:	disease probl	ems?		· · · · ·	Any escapes	(SINCE Idst	visit)?	IN		
 Date of last inspects Are records comption Are movement records comption Are records comption Are health certification Are any movement Are any movement Are a system 	Movement Records Y 1. Movement records available for inspection? 05/10/2021 2. Date of last inspection: 05/10/2021 3. Are records complete and correctly entered? Y 4. Are movement records available for dead fish and waste? Y 5. Are records complete and correctly entered? Y 6. Are health certificates for introductions (outwith GB) available? Y Transport Records 1. Are any movements carried out by (or on behalf) of the business (not using a STB)? If yes, is there a system in place for maintenance of transportation records?									
Mortality Records 1. Mortality records a	unilable for i	increation?								
2. How are mortalitie		•								
If other detail:	s usposou :	1:								
3. Mortality records of	complete and	correctly entered	?							
4. Recent mortality (-		·							
5. Evidence of recen	• •	atypical mortalities	?							
If yes, facility nos/no		••		/reason:						
6. Any other peaks i	n mortality du	iring period check	ed?							
If yes, detail:										
7. Have increased (u	unexplained)	mortalities been r	eported to	vet or FHI?						
If yes, detail action:										
3. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet.										

Treatments and Medicines Records	
1. Recent treatments (see comment)?	N
If yes, detail:	
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?	N
5. If yes, what treatment(s)?	
If other, detail:	
6. Are medicines stored appropriately?	Y
 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 <i>increased (unexplained)</i> 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? 	
Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business? 2. If yes, are results available for inspection? 3. Any significant results? If yes, detail (if not detailed under recent disease problems).	
Records checked between: 05/10/2021 - 04/10/2022	

FHI 059, Version 13

Case No:	2022-0467			Date of visit:	04/10/2022						
Site No:	FS0398	l		Inspector:		I					
Results Summary	Freq.		Date of Notification								
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp			
			-				-				

Report Summary			
Case Type	Date	Insp	2 nd Insp
MIX	18/10/20	022	
		_	
	_	_	
		_	

FHI 059, Version 13	Issu	ed by: FHI	Date of issue: 12/05/2020						
Case No: 2022-0468			Date of visit: 04/10/2022						
Time spent on site: 2	Hours	Main Inspecto	r:						
Site No: FS0069 Business No: FB0444	Site Name: Business Name:	Loch Na Shibaidh Mhor Hebridean Smolts Ltd							
Case Types: 1 ECI	2 CNI 3 VMD	4 5	6						
Water Temp (°C): 12.3	Thermometer No:	Т309	FHI 045 completed						
Observations:	Region: WI	Water type: F	CoGP MA						
Dead/weak/abnormally behaving fish present? N If yes, see additional information/clinical score sheet. Clinical signs of disease observed? N If yes, see additional information/clinical score sheet. Gross pathology observed? N If yes, see additional information/clinical score sheet. Diagnostic samples taken? N If yes, see additional information/clinical score sheet.									
UNI/REG only - if unable to carry	UNI/REG only - if unable to carry out intended visit detail reason below:								

Site inspection and paper work conducted by **setup**, observed by **setup**.

No clinical signs of disease were observed during the physical inspection of the stock. So far morts have been low and the fish appear to be in good health. Highest weekly count for mortality this cycle was 480 which occurred due to predation from Cormorants.

No treatments administered since input.

2 samples taken for VMD, sampled by

FHI 059, Version 13	1	1	Issued by: FHI			Date of issu	ie: 12/05/2020
Case No:	2022-0468	Site No:	FS0069	9			
Date of Visit:		04/10/2022		Inspector(s):	:		
Registration/Autho 1. Business/site deta 2. Changes made to	ails summary	tails y checked by site represe	entative?			Y N	1
Site Details (includ	le cleaner fi	sh for all sections)					
Total No facilities			s stocked	5	No faciliti	ies inspected	5
Species	SAL						
Age group	2023 S0s						
No Fish	100,000						
Mean Fish Wt	40g						
Next Fallow Date (S	· ·	October 22	Next Input D	· · · ·	July 23		N
Recent (last 4 wks) of If yes, detail:	disease prop	lems?		N Any escapes	s (since lasi	(visit)?	N
5. Are records comp 6. Are health certifica Transport Records 1. Are any movemer If yes, is there a syst	ection: plete and corr ecords availab plete and corr cates for introc s nts carried ou	rectly entered? ble for dead fish and was	vailable? e business (not us			05/10/2021	Y N/A N/A N/A
Mortality Records 1. Mortality records a	available for	inspection?					Y
2. How are mortalitie		•		Domestic wa	aste - <25k	a	
If other detail:		exceeds domestic waste	limit, morts are r			5	
3. Mortality records of			hirin, incertain	noncea ap as	The entry	Joontoe.	Y
4. Recent mortality (•		8 8, Week 37 82, V	Week 36 88, V	Neek 35 24		
5. Evidence of recen	• •		-,-				N
		er facility/no stock per fac	cility/reason:				
• •	n mortality d	uring period checked?					N
If yes, detail:							
		mortalities been reporte	ed to vet or FHI?				N/A
If yes, detail action:							
8. Have 'mortality ev	vents' been re	eported to FHI? If no, en	iter details on mo	rtality events s'	heet.		N/A

Treatments and Medicines Records							
1. Recent treatments (see comment)?	N						
If yes, detail:							
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?	N						
5. If yes, what treatment(s)?							
If other, detail:							
6. Are medicines stored appropriately?	Y						
 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 <i>increased (unexplained)</i> mortality at the site been included? 	Y Y						
 4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers? 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? 	Y Y						
8. Have the biosecurity procedures been adequately implemented on site?	Y						
If no, detail:							
Results of Surveillance 1. Has any animal health surveillance been carried out by, or on behalf of, the business?	N						
2. If yes, are results available for inspection?							
3. Any significant results?							
If yes, detail (if not detailed under recent disease problems).							
Records checked between: 05/10/2021 - 04/10/2022							

Fł	HI 059, Version 13							lssu	ed by: FHI				
	Case no:	2022-04	468	Site No:		FS0069			Date of visit	/	04/1	10/2022	04/*
l	Priority samples:	VI		BA		PA		MG	Sampling:	н			
	Time sampling starts/ends:	11:3	80:00	12:0	0:00		Inspecto	r:			VMD No	». [2
	Environmental conditions:	1	Sunny	2		3		4		5			
	Summary samples	HIST		BA		MG		VI		PA		Total Sa	mples
A	dd Fish/Pools - click												
	Pool/Fish No												
	Fish nos	1-3	4-6										
	Pool Group												
	Species	SAL	SAL										
	Average weight	40g	40g										
	Sex	N/A	N/A										
	Water Type	FW	FW										
Stock Details	Stock Origin Facility No	o Mingarry Hatchery FS0145	N Mingarry Hatchery FS0146										
0)		-	-										

10/2022	/2022 Additional Sample Information:													
0	0 Total Tests assigned 0													

FHI 059, Version 13

Issued by: FHI

		Issued by: I Th			Duito		. 12/00/2020
Case Number:	2022-0468		Site No:	FS0069		Insp:	
Date of Visit	04/10/2022		No of mo	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 ncluding third country	0	9	18	26	0
	Number of sup		0	5	10	14	0
Movements off	Frequency of n	novements off	0	3	6	10	3
	Number of des	tinations	0	3	6	10	3
Exposure via water		Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species	Farm is protect disinfection or	ted (secure water supply through borehole)	0				0
susceptible to same diseases)		or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		
		or in a coastal zone with category III n or within 1 tidal excursion	1	3	6		
	Farm is on-line	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		1	2		0
On farm processing within the rules of the directive	No on farm pro	ocessing	0				0
	Processing ow	n fish (re-cycling risk)	1				
	Processing fish	n from MS of equivalent status	2				
	Processing fish equivalent stat	n from zone or compartment of us	4				
	-	n from Category III farm	8				
	Processing fish	n from Category V farm	10				
Disposal of fish and fish by- products		te only processed.	0				0
producto		esses with other farms	3				
	Collection poin	t for waste from other farms	5				
Use of unpasteurised feeds		inpasteurised feed	0				0
	Feeding unpas	teurised feed	5				
Biosecurity		Number of sites	1	2 or 3	≥ 4		
Contacts with other sites		from single shorebase	0	1	2		1
	Sites sharing s	taff and equipment	0	1	2		1
Disinfection of equipment between sites, use of	Yes		0				0
footbaths etc	No		1				
CoGP/Regulator							
Practices in accordance with regulator or industry	Yes		0				0
code of practice	No		3				
Platform access to cages	Yes		0				0
	No		2				
					Total		8
					Rank		LOW

FHI 059, Version 13	Issued by: FHI	Date of issue: 12/05/2020
Case No: 2022-0468	Site No:	FS0069
Sea Lice Inspection (Seawater Sites Only) 1. Has the site experienced sea lice problems 2. Is the CoGP Farm Management Area (or eq 3. Does the site have access to a range of lice azamethiphos and emamectin benzoate) as w can these be deployed in a reasonable period	uivalent) fallowed synchronously on a single nced in-feed and bath sea lice medications (in /ell as access to suitable biological and/or medications)	ncluding deltamethrin,
4. Is there a signed documented farm manage Management Area (or equivalent)?	ment agreement or statement relevant to the s	site and CoGP Farm
 5. Are sea lice count records available for insp 6. Do records adequately reflect the required s 		Legal SSI, CoGP Annex 6)
7. Are sea lice (<i>L. salmonis</i>) record levels belo records are inspected? (CoGP Annex 6)	w the suggested criteria for treatment in the C	CoGP during the period that
8. Have average adult female sea lice (<i>L. salm</i> 2 or above (from w/b 10/6/19) during the period		above (prior to w/b 10/6/19) or
If yes, have these been reported to the Fish He 9. Is <i>C. elongatus</i> infestation at a level which is		lems? (CoGP 4.3.81, 5.3.50)
10. Have therapeutic treatments been administ suggested criteria for treatment or where <i>C</i> . etc		
11. Has any other action been taken (where ap 12. Have therapeutic treatments or the actions 13. Are treatments, where conducted, carried of 14. Is there a harvesting strategy for the site, we sea lice?	taken had a significant impact upon the lice le out in cooperation between participating farms	?
15. Is there a site specific written lice manager scenarios during the escalation of a sea lice in		actions to deal with recognised
16. Do the sea lice levels observed on stocks r	reflect sea lice count data? If no please detail	reasons.
Containment Inspection 1. Has the site experienced equipment damage 2. Are measures in place to mitigate against the Top nets Rat traps If other, detail below:		-
3. Have escape incidents or events been expe	erienced on or in the vicinity of the site since th	ne last FHI inspection? N
If Yes proceed with questions $4 - 9$. If No skip	-	
4. Have these been reported to Scottish Minist		
5. Have these been reported to local DSFB for		
6. Have these been reported to the SSPO and	local fisheries trusts forthwith (where they exis	st)? (CoGP – 4.4.37, 5.4.17)
7. Were methods (if any) used to recover esca	pees? If yes give detail	
8. If gill nets were deployed was this action age Ministers? (Legal, CoGP – 4.4.38, 5.4.18)		
9. What action was taken to prevent and minim	nise the risk of further escapes? (Not covered	in code but could
be considered under satisfactory measure		
10. Is the site inspected as satisfactory with re-	gards to containment? If no, please detail reas	son(s) Y

Site No: FS0069

Case No: 2022-0468

Nature of non-compliance:

Action taken (FHI):

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

FHI 059, Version 13

Case No:	2022-0468			Date of visit:	04/10/2022	2					
Site No:	FS0069	1		Inspector:							
		4		mopeotor.		•					
Results Summary	Freq.		Date of Notification								
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp			
							-				
							-				
					-						
Benert Summen	1	-									
Report Summary	Dete	lnen	end .								
Report Summary Case Type ECI, CNI, VMD	Date 18/10/2022	Insp	2 nd Insp								

Report Summary			
Case Type	Date	Insp	2 nd Insp
ECI, CNI, VMD	18/10/2022		





FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No FB0444 SITE NO FS0069 CASE NO 20220468 **DATE OF VISIT** 04/10/2022 SITE NAME INSPECTOR

Loch Na Shibaidh Mhor

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

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

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory.

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

Signed: Fish Health Inspector

Date: 18/10/2022

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