FHI 059, Version 11	ls	ssued by: FHI		Date of issue: 12/09/2017
Case No: 2018-0276				Date of visit: 03/07/2018
Time spent on site: 1.	5 hrs		Main Inspector	r: WJM
Site No: FIS0604 Business No: FIB0454	Site Name: Business Name:	Kilbirnie Loch Kilbirnie Angling	g Club	
Case Types: 1 REP 2	23	4	5	6
Water Temp (°C): 21.4	Thermometer No:	T274		FHI 045 completed
Observations:	Region: ST	Water type	: F	CoGP MA:
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	N If yes, see	additional inform	nation/clinical score sheet. nation/clinical score sheet. nation/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit detail	reason below:		

FHI 059, Version 11 Additional Case Information:

Kilbirnie Loch was inspected after notification from the Kilbirnie Angling Club of mortalities at the loch. A total of 15 dead pike had counted in the 2 weeks prior to the inspection. A few dead roach had also been reported. The site had received a delivery of approximately 100 fish (a mix of Rainbow and Brown trout) on the 14th of June but no trout mortalities have been reported.

On inspection of the site, no lethargic or moribund fish were spotted and water temperature of the loch was 21.4oC. Using fish finder sonar very few fish were found in the shallower areas of the loch while the highest concentration were found out in the deeper area at 30-35 feet below the surface.

SEPA had been on site 28th of June and collected water samples. The report produced stated that cyanobacteria levels were low (<20,000 cells/ml) so no further analysis was carried out by SEPA.

Case No:	2018-0276			Date of visit:	03/07/2018			
Site No:	FIS0604	1		Inspector:	WJM			
Results Summary	Freq.	-		Dat	te of Notificat	tion		
Results Guillinary	1104.	Database	Insp		Insp	Writing	Insp	2 nd Insp
						•		
Report Summary	Data	1	and .					
Case Type REP	Date 05/07/2018	Insp W.IM	2 nd Insp KAS					
	00/01/2010							

marine scotland science



Kilbirnie Angling Club 28 Sersley Drive Kilbirnie Ayrshire KA25 6EY

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOFIB0454SITE NOFIS0604INSPECTORWarren Murray

DATE OF VISIT03/07/2018SITE NAMEKilbirnie LochCASE NO20180276

The above site was inspected following a report of increased mortality by Kilbirnie Angling Club, on 3rd July 2018.

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.

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: 11/07/2018

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

FHI 059, Version 11		Issued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0278			Date of visit: 13/08/2018
Time spent on site: 6	hours	Main I	nspector: ALW
Site No: FS1103 Business No: FB0169	Site Name: Business Name:	Vuia Mor The Scottish Salmon C	Company
Case Types: 1 REP	2 DIA 3	4 5	6
Water Temp (°C): 14.7	Thermometer No:	T148	FHI 045 completed
Observations:	Region: WI	Water type: S	CoGP MA: W-2
Dead/weak/abnormally behaving Clinical signs of disease observe Gross pathology observed? Diagnostic samples taken?	•	Y If yes, see addition	nal information/clinical score sheet. nal information/clinical score sheet. nal information/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit deta	ail reason below:	

Additional Case Information:

Site inspected following report from company of increased mortality in week 31 due to clinical anaemia. Mortality levels had been low (range of 0.19-0.46% per week over preceding 7 weeks, 0.95% in May and 0.79% in June). Sharp increase in mortality in week 31 to 5.93% and 13.30 % in week 32.

Have harvested from site from March through to June, but due to the increase in mortality rates are now harvesting most days to get all of the fish off the site. Have harvested 101,546 fish between 5-12 August. Fish are being transported live to the killing stations at either Arnish or Ardyne.

Mortalities are being disposed at Whiteshore Cockles. Due to mortality levels, the Carly (operated by Fergusons Transport) is on site to collect mortalities with two tankers on the boat holding ~20T each. Fish are removed from the cage using the uplift and pumped into a grab/basket. Once full the grab is lifted over the sealed tanker and the fish are released into the tanker. The boat then travels direct to North Uist and the tankers are taken by road to Whiteshore Cockles.

The hydrolicer has been used on site in May (twice) and mid July, with a peroxide treatment in July for sea lice. Last hydrolicer treatment worked well, but had a settlement of juvenile leps very quickly afterwards. Were due to treat whole site using hydrolicer last Monday, but after ~2,000 fish had passed through the hydrolicer it was apparent that the fish were not coping with the crowding or the treatment and it was stopped.

Increased mortality started in cages 13 and 14. Mortalities were low at the weekend (single figures over 4/5 August), increased to ~250 on Monday, and then thousands on Tuesday.

Packed Cell Volume (PCV) counts have dropped dramatically as well. At end of week 31 the average for the site was 34% (range mostly 21-40%), by middle of week 32 they had dropped to 17% (mostly below 20%). Report from health staff from mid week 32 commented that the anaemia was significantly worse than the previous week, the feeding response was poor, lice numbers were high with cranial damage visible and PGD scores were high.

Histology report summary from start of August reported moderate to severe necrosis in the liver (suggestive of anoxia), multifocal severe/moderate lesions on the gills (consistent with treatment) and moderate grade anaemia.

Water temperatures have been above 14C since week 27.

On site lethargic fish seen in cages with high lice loads and cranial lice damage (estimate 50 - 100 per cage inspected with some worse than others e.g. cage 1). Reported that number of fish with visible lice damage has increased over the last week. Eight lethargic fish, plus two feeding fish removed for sampling.

FHI 059, Version 11			lssu	ued by: FHI			Date of issu	e: 12/09/2017
Case No:	2018-0278		Site No:	FS1103				
Date of Visit:		13/08/2018	3		Inspector(s):	ALW]
Registration/Author 1. Business/site deta 2. Changes made to	ails summar		site represent	ative?			Y Y	
Site Details								
Total No facilities	_	14	Facilities sto	ocked	10	No facilitie	s inspected	5
Species	SAL	LUM						
Age group	2017 S1	Adult						
No Fish	161,473	26,872						
Mean Fish Wt	4.08Kg	Adult						
Next Fallow Date (S	ite)	By end Aug	ust 2018	Next Input Da	ate (Site)	March 201	9	
Recent (last 4 wks)	disease prot	olems?		Y	Any escapes	s (since last)	visit)?	N
If yes, detail:	anaemia				/			
Movement Record	s							
1. Movement record		or inspection?						Y
2. Date of last inspe							19/10/2017	
3. Are records comp	plete and cor	rectly entered	?					Y
4. Are movement re	cords availa	ble for dead fi	sh and waste	?				Y
5. Are records comp								Y
6. Are health certific	ates for intro	oductions (out	with GB) avail	able?				N/A
Transport Records	5							
1. Are any movement	nts carried o	ut by (or on be	half) of the b	usiness (not us	ing a STB)?			
If yes, is there a sys								
Mortality Records	·							
1. Mortality records	available for	inspection?						Y
2. How are mortalitie		•			Other (detail))		
If other detail:		to Whiteshore	Cockles		<u> </u>	, 		
3. Mortality records			ered?					Y
4. Recent mortality ((last 1 wks).		Wk 29 = 88 = 31,571 (13	4 (0.35%), wk 3	30 = 1,043 (0.4	41%), wk 31	= 14,995 (5.	93%), wk 32
-	. ,	atunical morta		3.370)				Y
5. Evidence of recern If yes, facility nos/no		· ·		//reason:				I
Across whole site				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
6. Any other peaks i	in mortality d	luring period c	hecked?					N
If yes, detail:								
7. Have increased (unexplained)) mortalities be	en reported t	o vet or FHI?				Y
If yes, detail action:		Site inspect						
8. Have 'mortality ev	/ents' been r	eported to FH	I? If no, add N	/IRT case and e	enter on morta	ality events s	sheet.	Y

Treatments and Medicines Records	
1. Recent treatments (last 4 wks)?	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?	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 considered?	
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any	
increased (unexplained) mortality at the site been included?	
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease	
is detected been included and how and when that will be notified to Scottish Ministers?	
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher	
health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of	
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	
If no, detail:	
Results of Surveillance	
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
If yes, detail (if not detailed under recent disease problems). See additional information	
Records checked between: 19/10/17 - 13/8/18	

FHI 059, Version 11				Issued by: FHI	
Case no:	2018-0278	Site No:	FS1103	Date of visit/ Sampling:	13/08/2018 13/0
Priority samples:	VI	BA	PA	MG x	н
Time sampling starts/ends:	16:50:00	18:10:00	Inspector:	ALW	VMD No. 0
Environmental conditions:	1 Indoors	s 2	3	4	5
Summary samples	HIST Y	BA Y	MG Y VI	ΥΡΑ	Total Samples

Add Fish/Pools - click

	Pool/Fish No	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	P1	P2
	Fish nos	1	2	3	4	5	6	7	8	9	10	1-6	7-10
	Pool Group	P1	P1	P1	P1	P1	P1	P2	P2	P2	P2		
	Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL
	Average weight	4.1000	4.1000	4.1000	4.1000	4.1000	4.1000	4.1000	4.1000	4.1000	4.1000	4.1000	4.1000
	Sex	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Water Type	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
Stock Details	Stock Origin Facility No	1 Geocrab	L Geocrab	L Geocrab	o Ormsary Smolt Unit	o Ormsary Smolt Unit	ısary	ഫ Harris Lochs (Huamavat/Langavat)			ထ Harris Lochs (Huamavat/Langavat)	ab & Unit	ശ Harris Lochs (Huamavat/Langavat)

08/2018											
	Hearts	for histo	logy sar	npled se	eparatel	y due to	size				
12	I	Total Te	ests ass	igned	3	I					

FHI 059, Versio	on 11		Issued by: FHI						Date of issue: 12/09/20					
Case no:	2018-0278		Site No	D :	FS110	3	Method of killing: Percussive							
Date of visit:	13/08/20	018	Inspec	tor(s):	ALW] 8	Sheet Ro	elevant	: Y			
S for strong preser	nce: M for medium presence: W	for weak pres	sence											
Fish Number		1		3	4	5	6	7	8	9	10			
	er death (if > 45 minutes)	70	70	70	90) 90			120	120) 120			
External Signs	, i													
Behaviour	Moribund													
	Lethargic	М	Μ	M	Μ	Μ	М	Μ	Μ					
	Hanging vertical			Μ										
	Spiralling													
	Flashing													
	Loss of equilibrium													
Body	Dark	М	М	М	М	Μ	М	Μ	М					
	Distended abdomen													
	Anorexic													
	Scale Oedema													
Opercula	Shortened		W											
	Flared													
Haemorrhaging	Throat													
	Ventrum													
	Base of fins													
	Elsewhere													
Eyes	Exophthalmic													
	Enophthalmic (sunken)													
	Cataract													
	Haemorrhagic													
Gills	Pale	W		W										
	Zoned													
	Necrotic													
Lesions	Flank													
	Elsewhere													
Vent	Inflamed													
	Trailing faeces		<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>			<u> </u>			
Lice Load	Estimate numbers	High	High	High	High	High	High	High	High	High	High			
Internal Signs														
Ascites	Clear			W										
	Bloody													
Oedema	In tissues				_									
Heart	Pale/anaemic	_												
	Granulomas									<u> </u>				
	Deformed	_												
Liver	Petechial haem		W	W						<u> </u>				
	Gross haem	_												
	Tissue breakdown													
	Enlarged		-		-									
	Colour number(s) Granulomas													
			h											
Pyloric cocce	Lesions Petechial haem													
Pyloric caeca	Tubules mauve													
	Lack of fat													
Spleen	Enlarged					м				M				
opicen	Granulomas					101								
Gut	No food present	м		м			М							
out	Yellow pseudo-faeces	IVI	s		м	м			м					
	External haem		Ŭ											
	Internal haem													
Body wall	Haemorrhaging													
Swim bladder	Haemorrhaging													
	Fluid filled													
Kidney	Swollen													
Nulley														
	Grey Granular													
General	Liquefied Parasites present													
General														
	Anaemia													

Case no:	2018-0278

Г

Date of visit:

13/08/2018

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

Time sampled after dash (if > 45 minutes) Image: Sampled after dash (if > 45 minutes) Image: Sampled after dash (if > 45 minutes) Behaviour Moribund Image: Sampled after dash (if > 45 minutes) Image: Sampled after dash (if > 45 minutes) Behaviour Hanging vertical Image: Sampled after dash (if > 45 minutes) Image: Sampled after dash (if > 45 minutes) Body Dark from Sampled after dash (if > 45 minutes) Image: Sampled after dash (if > 45 minutes) Image: Sampled after dash (if > 45 minutes) Body Dark from Sampled after dash (if > 45 minutes) Image: Sampled after dash (if > 45 minutes) Image: Sampled after dash (if > 45 minutes) Body Dark from Sampled after dash (if > 45 minutes) Image: Sampled after dash (if > 45 minutes) Image: Sampled after dash (if > 45 minutes) Body Dark from Sampled after dash (if > 45 minutes) Image: Sampled after dash (if > 45 minutes) Image: Sampled after dash (if > 45 minutes) Base of fine Image: Sampled after dash (if > 45 minutes) Image: Sampled after dash (if > 45 minutes) Image: Sampled after dash (if > 45 minutes) Base of fine Image: Sampled after dash (if > 45 minutes) Image: Sampled after dash (if > 45 minutes) Image: Sampled after dash (if > 45 minutes) Base of fine Image: Sampled after dash		ce: M for medium presence: W for v	٨		_			
External SigneMoribund	Fish Number							
BehaviourMoribundMore<		er death (if > 45 minutes)						
Lethanging vertical Imaging vertic								
Hanging vertical Image Image <thimage< th=""> Image Image</thimage<>	Behaviour							
Spiraling Spiraling <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
Flashing Image: state of the s								
bodyDarkDiscuedat abdomen.Discuedat abdomen.Discu								
Body Dark Distended abdomen Distended abdomen <thdistended abdomen<="" th=""> Distended abdomen<td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thdistended>								
Distended abdomen Image: Constraint of the second sec								
Anorexic Mathematical and the second se	Body							
Scale Ocdoma Mathematical Control Mathmathmmatical Control Mathematical								
Operational Action Shortened Shorene Shortened Shorened								
Flared Image Image <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
Haemorrhaging Throat Image	Opercula							
Nontrum Nontrum <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
Base of fins Image: Constraint (surken) Image: Constraint (surken) <thimage: (surken)<="" constraint="" th=""> Image: Constra</thimage:>	Haemorrhaging	Throat						
Elsewhere Image: Constraint of the second seco								
Eyes Exophthalmic (sunken) Image: supplementation of the								
Enophthalmic (sunken) Image: Cataract Hamorrhagic Image: Cataract Hamorrhagic <thimage: cataract="" hamorrhagic<="" th=""> Image</thimage:>								
Cataract Image	Eyes							
Haemorrhagic Image: Constraint of the second s								
Gills Pale Image: state of the state of								
Zoned Mecrotic Mecrotic <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
Necrotic Image: Constraint of the second secon	Gills							
Lesions Flank Image State Ima								
Elsewhere Image								
Vent Inflamed Image <	Lesions	Flank						
Trailing faeces Image: Constraint of the second secon								
Lice Load Estimate numbers Image: Sector Se	Vent							
Internal Signs Image: Clear Image: Clea								
Ascites Clear Image: Clear	Lice Load	Estimate numbers						
Ascites Clear Image: Clear								
Bloody Image: Second secon								
Oedema In tissues Image: Constraint of the second	Ascites							
Heart Pale/anaemic Image: Constraint of the second se								
Granulomas Image: Construct on the second secon								
DeformedImage: constraint of the second	Heart							
Liver Petechial haem Image: Colour number (S) Imag								
Gross haemImage: state in the st								
Tissue breakdownImageImageImageImageEnlargedImageImageImageImageImageColour number(s)ImageImageImageImageImageGranulomasImageImageImageImageImageLesionsImageImageImageImageImagePyloric caecaPetechial haemImageImageImageImageTubules mauveImageImageImageImageImageLack of fatImageImageImageImageImageSpleenEnlargedImageImageImageImageGutNo food presentImageImageImageImageYellow pseudo-faecesImageImageImageImageImageBody wallHaemorrhagingImageImageImageImageSwim bladderHaemorrhagingImageImageImageImageFluid filledImageImageImageImageImageKidneySwollenImageImageImageImageGranularImageImageImageImageImageGranularImage <td>Liver</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Liver							
EnlargedImage: second seco								
Colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)GranulomasImage: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)LesionsImage: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)Pyloric caecaPetechial haemImage: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)Pyloric caecaPetechial haemImage: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)Tubules mauveImage: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)SpleenEnlargedImage: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)SpleenEnlargedImage: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)GutNo food presentImage: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)GutNo food presentImage: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)GutNo food presentImage: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)Image: colour number(s)								
GranulomasImage: state in the st								
LesionsImage: case and the second								
Pyloric caecaPetechial haemImage: constraint of the state of t								
Tubules mauveImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemLack of fatImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemSpleenEnlargedImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemGutNo food presentImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemGutNo food presentImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemGutNo food presentImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemGutNo food presentImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemGutNo food presentImage: Constraint of the systemImage:	Dularia acces							
Lack of fatImageImageImageImageSpleenEnlargedImageImageImageImageGranulomasImageImageImageImageImageGutNo food presentImageImageImageImageYellow pseudo-faecesImageImageImageImageExternal haemImageImageImageImageBody wallHaemorrhagingImageImageImageFluid filledImageImageImageImageKidneySwollenImageImageImageImageGranularImage<	r yioric caeca							
SpleenEnlargedImage: SpleenImage: Spleen								
GranulomasImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemGutNo food presentImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemYellow pseudo-faecesImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemExternal haemImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemBody wallHaemorrhagingImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemBody wallHaemorrhagingImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemBody wallHaemorrhagingImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemSwim bladderHaemorrhagingImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemSwollenImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemGranularImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemImage: constraint of the systemGranularImage: constraint of	Splaar							
GutNo food presentImage: second	opieen							
Yellow pseudo-faecesImage: second	Gut							
External haemImage: second	Gui							
Internal haemImage: second								
Body wallHaemorrhagingImage: state of the state o								
Swim bladder Haemorrhaging Image: state of the s	Bodywall							
Fluid filled Image: Swollen Image:								
Kidney Swollen Image: Constraint of the state of								
Grey Image: Constraint of the second secon	Kidnov							
Granular Granular	Nulley							
Liquefied Image: Constraint of the second	General							
	General							
Anaemia		Andenna						

FHI 059, Version 11 Issued by: FHI Additional comments: Fish 1 - Slight lice damage to head, some petechial haemorrhages on gill Fish 2 - Smaller, Slight lice damage to head, damaged gill, small number of petechial haemorrhages on liver Fish 3 - Slight lice damage to head, some petechial haemorrhages on gill, small number of petechial haemorrhages on liver, spleen pale, liver very pale Fish 4 - severe lice damage to head, small white patches on gills Fish 5 - severe lice damage to head Fish 6 - severe lice damage to head Fish 7 - severe lice damage to head, some petechial haemorrhages on gill Fish 8 - Slight lice damage to head

Site No: FS1103

Case No: 2018-0278

Nature of non-compliance:

Action taken (FHI):

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

Case No:	2018-0278			Date of visit:	13/08/201	18						
Site No:	FS1103	I		Inspector:	ALW							
Results Summary	Freq.		Date of Notification									
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp				
ISA PCR	0/2	17/08/2018	ALW	17/08/2018	ALW	28/09/2018	ALW	WJM				
IHN PCR	0/2	17/08/2018	ALW	17/08/2018	ALW	28/09/2018	ALW	WJM				
VHS PCR	0/2	17/08/2018	ALW	17/08/2018	ALW	28/09/2018	ALW	WJM				
PN PCR	1/2	17/08/2018	ALW	17/08/2018	ALW	28/09/2018	ALW	WJM				
SAV PCR	1/2	17/08/2018	ALW	17/08/2018	ALW	28/09/2018	ALW	WJM				
AGD PCR	8/10	17/08/2018	ALW	17/08/2018	ALW	28/09/2018	ALW	WJM				
SAL POX PCR	10/10	17/08/2018	ALW	17/08/2018	ALW	28/09/2018	ALW	WJM				
Para Ther PCR	10/10	17/08/2018	ALW	17/08/2018	ALW	28/09/2018	ALW	WJM				
CGDH	10/10	29/08/2018	ASM	29/08/2018	ASM	28/09/2018	ALW	WJM				
GPAT	10/10	29/08/2018	ASM	29/08/2018		28/09/2018	ALW	WJM				
GPAR	3/10	29/08/2018	ASM	29/08/2018	ASM	28/09/2018	ALW	WJM				
LPAT	3/10	29/08/2018	ASM	29/08/2018	ASM	28/09/2018	ALW	WJM				
PMCH	10/10	29/08/2018	ASM	29/08/2018	ASM	28/09/2018	ALW	WJM				
SPAT	7/10	29/08/2018	ASM	29/08/2018	ASM	28/09/2018	ALW	WJM				
/ibrio species	9/10	07/09/2018				28/09/2018	ALW	WJM				
No significant bacteria	8/10	07/09/2018	ALW			28/09/2018	ALW	WJM				
		•	<u>.</u>	-	<u>.</u>							
Report Summary				7								
Case Type	Date	Insp	2 nd Insp	1								
DIA/REP	28/09/2018		WJM	1								
			-	-								
			1									
			1									
	1											
	1											
				-								

marine scotland science



The Scottish Salmon Company 1 Smithy Lane Lochgilphead Argyll PA31 8TA

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NoFB0169SITE NoFS1103INSPECTORAndrea Warwick

R09

 DATE OF VISIT
 13/08/2018

 SITE NAME
 Vuia Mor

 CASE NO
 20180278

Section 1: Summary

The above site was inspected, following a report from the company of a recent increase in mortality, attributed to anaemia. During the inspection of the site, a number of lethargic Atlantic salmon with high lice loads and physical damage were observed. Ten fish were removed for further examination and subsequent diagnostic sampling.

Histopathology examination revealed widespread gill circulatory disturbances in all fish (likely associated with treatments or water insult) and splenic pathology. One fish also showed mild multifocal hepatic necrosis.

Due to the gill health issues reported on site, samples were screened for salmon gill poxvirus, *Noeparamoeba perurans* (the causative agent of amoebic gill disease) and *Paranucleospora theridion* (syn, *Desmozoon lepeophtherii*) by QPCR. Samples tested positive for all three pathogens.

Samples tested positive for salmonid alphavirus and infectious pancreatic necrosis by QPCR, but there was no associated pathology.

A *Vibrio* sp. was also isolated from the gills. The mixed growth would not suggest that it is a primary source of morbidity however the level of growth was significant.

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

Section 2: Case Detail

Observations

The above site was inspected, following a report from the company of a recent increase in mortality. The site was stocked with 161,473 2007 S1 Atlantic salmon at 4.08 kg average weight and 28,872 adult lumpsuckers.

Mortality levels had been low over the preceding few weeks (range of 0.19-0.46%), but had risen in week 31 to 5.93% (14,995) and 13.30% in week 32 (31,571). Harvesting had been accelerated due to the increased mortality levels and the site was due to be fallow by the end of August 2018. Samples taken in early August showed necrosis of the liver, lesions on the gills and moderate anaemia.

A number of lethargic fish with high lice loads and physical damage were observed across the site. Ten fish (eight lethargic and two active fish) were removed for further examination and subsequent diagnostic sampling.

Fish 1 to 8 were dark and had lice damage to the head area. All fish had high lice loads. Fish 1, 3 and 7 had petechial haemorrhages on the gills. Fish 2 had a shortened operculum and damaged gill filaments. Fish 1 and 3 had slightly pale gills and fish 4 had small white patches on the gills.

Internally fish 2 and 3 exhibited petechial haemorrhaging on their livers and the liver of fish 3 was very pale. Fish 1 had clear ascites in the body cavity. Fish 5 and 9 had enlarged spleens and the spleen of fish 3 was pale. Fish 1, 3 and 6 had no feed in their guts and fish 2, 4, 5 and 8 had yellow pseudo-faeces.

Samples

Fish number	Pool number	Facility number	Species	Stage	Origin
1-3	P1	Pen 1	Atlantic salmon	2017 S1	Geocrab Hatchery
4-6	P1	Pen 6	Atlantic salmon	2017 S1	Ormsary Smolt Unit
7-10	P2	Pen 9	Atlantic salmon	2017 S1	Harris Lochs

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

<u>Results</u>

Bacteriology: Kidney and gill material from fish 1-10 was inoculated onto appropriate media for the isolation of bacteria.

The following bacterium was isolated:

Vibrio sp. (gills of fish 1-9)

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

Infectious pancreatic necrosis virus (IPNV)

Pool Number	Endogenous control Cp value		Cp Values					
P1	16.31	34.25	34.81	34.61	POSITIVE			
P2	-	-	-	-	Negative			

Salmonid alphavirus (SAV)

Pool Number	Endogenous control Cp value		Reported Result (PCR)		
P1	-	-	-	-	Negative
P2	16.83	37.30	37.18	37.30	POSITIVE

Salmon gill poxvirus

Fish Number	Endogenous control Cp value		Cp Values						
F1	21.60	28.82	28.82	28.80	POSITIVE				
F2	21.35	33.48	33.24	33.09	POSITIVE				
F3	21.67	34.74	34.12	34.35	POSITIVE				
F4	21.20	25.99	25.97	26.03	POSITIVE				
F5	21.46	27.89	28.11	27.94	POSITIVE				
F6	21.80	27.27	27.29	27.35	POSITIVE				
F7	20.88	27.83	27.87	27.88	POSITIVE				
F8	21.50	31.28	31.13	31.25	POSITIVE				
F9	21.01	36.56	36.53	36.87	POSITIVE				
F10	21.56	37.81	37.35	37.17	POSITIVE				

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

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

Neoparamoeba perurans (AGD)

Fish Number	Endogenous control Cp value		Cp Values						
F1	21.60	33.92	34.34	34.51	POSITIVE				
F2	21.35	32.15	32.04	31.98	POSITIVE				
F3	21.67	34.04	34.36	34.35	POSITIVE				
F4	21.20	33.89	34.06	34.20	POSITIVE				
F5	21.46	34.91	34.48	34.56	POSITIVE				
F6	21.80	34.36	34.75	35.02	POSITIVE				
F7	20.88	34.98	35.34	35.33	POSITIVE				
F8	-	-	-	-	Negative				
F9	21.01	36.55	36.47	36.76	POSITIVE				
F10	-	-	-	-	Negative				

R09

Paranucleo	Paranucleospora theridion										
Fish Number	Endogenous control Cp value		Cp Values								
F1	21.60	34.16	34.24	34.22	POSITIVE						
F2	21.35	33.54	33.60	33.57	POSITIVE						
F3	21.67	34.26	33.77	33.99	POSITIVE						
F4	21.20	31.80	31.65	31.74	POSITIVE						
F5	21.46	23.90	23.92	23.90	POSITIVE						
F6	21.80	33.68	33.76	33.58	POSITIVE						
F7	20.88	36.00	35.88	35.53	POSITIVE						
F8	21.50	35.95	36.19	36.68	POSITIVE						
F9	21.01	32.58	32.69	32.35	POSITIVE						
F10	21.56	38.48	36.63	37.82	POSITIVE						

Histology: Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from fish 1-10. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

<u>Gill</u>: Scattered small foci of lamellar epithelial hyperplasia, several aneurysmal dilation/telangiectasia and lamellar thrombi noted in all fish. Some/mild interlamellar hyperplasia (mainly at the tips of gill filaments) and lamellar fusion noted in F2, F4, F7, and F9. F3 and F7 also showed mild hypertrophy of epithelial and chloride cells. Increased number of eosinophilic granular cells (EGC) (F6-F9) at the centre of gill filament. Occasional protist parasite noted in F4, F6, F7. Generalised epithelial lifting, likely post-mortem artefact (F5).

Skin & Muscle: Within the normal range.

<u>Heart</u>: Focal mild pericarditis (F3). Two small thrombi within atrium chamber (F3) and a small foci of basophilic nuclei at the spongy layer of ventricle (F3, F4). Occasional individual fibre degeneration noted in F10.

<u>Gut and pyloric caeca</u>: Mild to moderate cell sloughing noted in all fish (likely associate with postmortem artefact).

Pancreas: Within the normal range.

Liver: Mild multifocal necrosis (F1), some capillary dilation (F4) and mild diffuse hepatocyte vacuolation (F10).

Kidney: Within the normal range.

Spleen: mild to marked white pulp reduction (F1-F3, F5-F8).

Signed:

Date: 28/09/2018

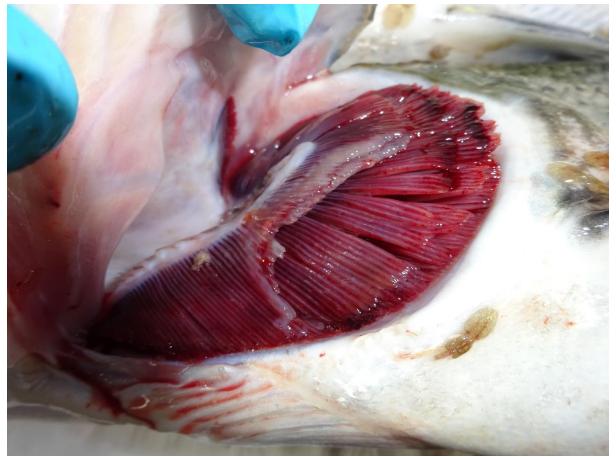
Fish Health Inspector

R09

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

<complex-block>

Fish 1-3





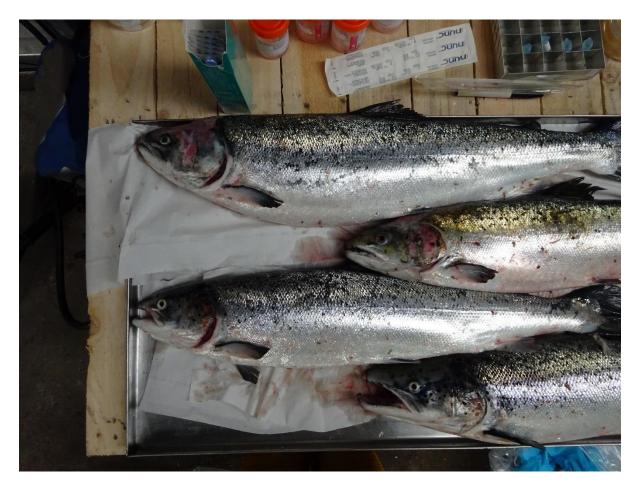
Fish 3







Fish 4



Fish 7-10

FHI 059, Version 11	Issue	ed by: FHI	Date of issue: 12/09/2017			
Case No: 2018-0279			Date of visit: 07/08/2018			
Time spent on site:	.5 Hrs	Main Inspecto	or: WJM			
Site No: FS0752 Business No: FB0169	Site Name: Business Name:	Taranaish The Scottish Salmon Compan	y			
Case Types: 1 REG	2 CNI 3 SLI	4 VMD 5	6			
Water Temp (°C): 14.5	Thermometer No:	T274	FHI 045 completed			
Observations:	Region: WI	Water type: S	CoGP MA: W-1			
Dead/weak/abnormally behaving Clinical signs of disease observe Gross pathology observed? Diagnostic samples taken?	Y If yes, see additional infor	mation/clinical score sheet. mation/clinical score sheet. mation/clinical score sheet.				
UNI/REG only - if unable to carry						
	Water tempera	ature above 14oC.				

Additional Case Information:

Lethargic fish on site along with white heads put down to sea lice damage. Fish sampled showed no gross pathology so no diagnostic samples were taken.

Site was planned on being fallow early August but has been delayed until late August has boat was required elsewhere.

Increased mortality levels from weeks 39 and 48 from 2017 investigated. Mortalities from wk 38 put down to AGD and PGD while wk 48 was put down to PD and handling from recent treatment. Mortality levels quickly reduced in the following weeks. Both mortality events seem not to have been reported to FHI but on speaking with company biologist they have records of reporting the wk 48 event to FHI.

Full EC inspection could not be conducted as water temperature was above 14oC. Paperwork for full EC inspection was completed. Inspection will rearranged for a later date.

FHI 059, Version 11			lssu	ed by: FHI			Date of issue	e: 12/09/2017
Case No: 2	2018-0279]	Site No:	FS0752]			
Date of Visit:		07/08/2018			Inspector(s):	WJM		
Registration/Authori 1. Business/site detail 2. Changes made to c	ls summary		te representa	ative?			Y Y	
Site Details								
Total No facilities		16	Facilities sto	cked	7	No facilitie	es inspected	16
Species S	SAL	LUM						
Age group 2	2017 S1							
	98,762	10,513						
Mean Fish Wt 4	4.5 Kg	unknown						
Next Fallow Date (Site	e)	AUG. 2018		Next Input Da	ate (Site)	MARCH 2	019	
					1.	, <i>.</i> .		
Recent (last 4 wks) di	sease probl			Ŷ	Any escapes	s (since last	visit)?	N
If yes, detail:	AGD & PGD							
Movement Records								
1. Movement records		r inspection?						Y
2. Date of last inspect							02/03/2017	
3. Are records comple		•						Y
4. Are movement reco								Ý
5. Are records comple								Y N/A
6. Are health certificat			IIII GD) avalla					IN/A
Transport Records								
1. Are any movements	s carried ou	t by (or on beł	nalf) of the bu	isiness (not usi	ing a STB)?			Y
If yes, is there a syste	m in place f	or maintenand	ce of transpor	tation records	?			Y
Mortality Records								
1. Mortality records av	/ailable for i	nspection?						Y
2. How are mortalities	disposed o	f?			Whole fish -	Dundas Ch	emicals	
If other detail:								
3. Mortality records co	•	•						Y
4. Recent mortality (la				(1.01%), wk29	9 & 30 <1%, w	/k31 - 2686	(1.82%)	
5. Evidence of recent				,				N
If yes, facility nos/no n	nortality per	facility/no sto	ck per facility/	/reason:				
6. Any other peaks in	mortality du	ring period ch	ecked?					Y
				6/week. Put do	wn to AGD W	/ks7 11 16	5 20 22-27 20)18 above
		ut down to trea				, , , , , , , , , , , , , , , , , , , ,	, 20, 22 21 20	
7. Have increased (un		mortalities bee	en reported to	vet or FHI?				Y
If yes, detail action:		Site in proces reported to F		ng out. Site to	be follow by e	end of Augu	st. Increased r	mortalities
8. Have 'mortality even	nts' been re			RT case and e	enter on morta	ality events a	sheet.	N

Treatments and Medicines Records	
1. Recent treatments (last 4 wks)?	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?	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	Y
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)?	Y
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	Y
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of	Ý
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site? If no, detail:	Ý
Results of Surveillance	
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	Y
2. If yes, are results available for inspection?	Y
3. Any significant results?	Y
If yes, detail (if not detailed under recent disease problems).	
Records checked between: 02/03/2017 - 07/08/2018	

Fł	H 059, Version 11							lss	ued by:	FHI			
	Case no:	2018-02	279	Site No:		FS0752			Date of		07/0	08/2018	07/(
	Priority samples:	VI		BA		PA		MG	Samplin	g: HI		I	
	Time sampling starts/ends:		00:00	_	5:00		Inspecto	or:	WJM		VMD No	р. Г	15
	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	SAL	SAL										
	Average weight		4.5000										
	Sex	N/A	N/A										
	Water Type	SW	SW										
Stock Details	Stock Origin Facility No	ю Barvas	Amhuinnsuidhe										
ပ		9	10										

)8/2018	2018 Additional Sample Information:													
	1					•								
0		Total Te	ests ass	igned	0									

FHI 059, Version 11		Issued by: FHI			Dale	JIISSUE	12/09/201
Case Number:	2018-0279		Site No:	FS0752		Insp:	WJM
Date of Visit	07/08/2018		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	0
	Number of sup		0	5	10	14	0
Movements off	Frequency of n	povements off	0	3	6	10	10
	Number of des		0	3	6	10	3
Exposure via water		Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species	Farm is protect disinfection or I	ed (secure water supply through	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		2
	Farm is on-line	or in a coastal zone with category III	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		0
On farm processing within he rules of the directive	No on farm pro		0				0
	Processing own	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
	Processing fish from zone or compartment of equivalent status						
		from Category III farm	8				
	Processing fish	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		1
	Sites sharing s	taff and equipment	0	1	2		1
Disinfection of equipment	Yes		0				0
between sites, use of footbaths etc	No		1				
CoGP/Regulator				l			
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		20 MEDIUM

FHI 059, Version 11	lss	sued by: FHI	Date of is	Date of issue: 12/09/2017	
Case No: 2018-02	79	Site No:	FS0752		
Sea Lice Inspection (Seawater 3 1. Has the site experienced sea li		vears?		Y	
2. Is the CoGP Farm Managemer	t Area (or equivalent) fallowed	l synchronously on a single y	/ear class basis?	Y	
 Does the site have access to a azamethiphos and emamectin be can these be deployed in a reaso Is there a signed documented f Management Area (or equivalent) 	nzoate) as well as access to se nable period of time? arm management agreement of	uitable biological and/or med	chanical control measures, and	d Y	
5. Are sea lice count records avai		I. CoGP Annex 6)		Y	
6. Do records adequately reflect t			_egal SSI, CoGP Annex 6)	Y	
7. Are sea lice (<i>L. salmonis</i>) recorecords are inspected? (CoGP A		criteria for treatment in the C	OGP during the period that	Υ	
8. Have average adult female sea records are inspected?	lice (<i>L. salmonis</i>) numbers pe	r fish been at a level of 3 or	above during the period that	Y	
If yes, have these been reported t	o the Fish Health Inspectorate	? If no, FHI see comment.		Y	
9. Is C. elongatus infestation at a	level which is considered to ca	use significant welfare probl	lems? (CoGP 4.3.81, 5.3.50)	Ν	
10. Have therapeutic treatments to suggested criteria for treatment o				Y	
11. Has any other action been tak	en (where applicable)?			Ν	
12. Have therapeutic treatments of	or the actions taken had a signi	ficant impact upon the lice le	evels recorded?	Υ	
13. Are treatments, where conduct14. Is there a harvesting strategy sea lice?		· · ·		Y Y	
15. Is there a site specific written scenarios during the escalation of		th waypoints describing set a	actions to deal with recognised	d Y	
16. Does the stock on site appear reasons.	satisfactory in relation to sea I	ice level and sea lice count of	data? If no please detail	Y	
Containment Inspection					
1. Has the site experienced equip	ment damage due to predators	in the current or previous p	roduction cycles?	Ν	
2. Are measures in place to mitigate	ate against the predation exper	ienced on site? (Detail belov	v)	Y	
A.D.D., M.M.L., Seal Blinds, To	ensioned Nets, Top Nets				
If other, detail below:					
3. Have escape incidents or ever	its been experienced on or in t	ne vicinity of the site since th	e last FHI inspection?	Ν	
If Yes proceed with questions 4 –	·	,	·		
4. Have these been reported to S					
5. Have these been reported to lo	cal DSFB forthwith (where they	v exist)? (CoGP – 4.4.37, 5.4	4.17)		
6. Have these been reported to the	e SSPO and local fisheries true	sts forthwith (where they exis	st)? (CoGP – 4.4.37, 5.4.17)		
7. Were methods (if any) used to	recover escapees? If yes give	detail			
8. If gill nets were deployed was t Ministers? (Legal, CoGP – 4.4.38		d fish interests and was pern	nission given by Scottish		
9. What action was taken to preve	ent and minimise the risk of fur	her escapes? (Not covered	in code but could		
be considered under satisfactory measures of the Act)					
10. Is the site inspected as satisfa	• •	ent? If no, please detail reas	son(s)	Y	

FHI 059, Version 11	Issued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0279 Site	No: FS0752	
Date of Visit: 07/08/2018	Inspector: WJM	
Point of Compliance		
1. Is the farm under inspection located within	a farm management area?	Y
If N, no further questions require completion.		
Points of Compliance for Both Farm Mana	gement Agreements and Statements	5
 Has a current farm management agreement Is the current FMAg/S available for inspect 	· • · · ·	ed? Y
4. Does the FMAg/S identify the relevant farm	n management area?	Y
 Does the FMAg/S identify the fish farm site Does the FMAg/S identify the date of comr 		Y Y Y
7. Does the FMAg/S identify the date of revie	•	Y
Arrangements for Fish Health Managemer	nt	
8. Does the FMAg/S identify the minimum he		duced to the area or
farm?		
 Does the FMAg/S identify the vaccination r Does the FMAg/S identify the species of f 	•	
11. Does the FMAg/S identify the maximum s	•	
individual farm?	to for the storege and dispessed of any	
12. Does the FMAg/S identify the arrangement fish farm in the area or the individual farm?	nts for the storage and disposal of any c	dead lish from any
Arrangements for The Management of Sea	a Lice	
13. Does the FMAg/S identify arrangements f	or the sharing of data on sea lice numb	pers and treatments? Y
14. Does the FMAg/S identify the availability a of statement?	and the use of medicines on farms cove	ered by the agreement Y
15. Does the FMAg/S identify any requirement lice on farms in the area or individual farms?	nts for the sensitivity testing of available	
16. Does the FMAg/S identify the circumstant	-	cleaner fish are to be Y
used on farms in the area or individual farms' 17. Does the FMAg/S identify the arrangement		
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	
Live Fish Movements		
18. Does the FMAg/S identify the circumstand area or farm?	ces when live fish may be introduced or	
19. Does the FMAg/S identify the arrangement	nts for the movement of live fish on and	off sites in the area
or individual farms?		

Harvesting

20. Does the FMAg/S identify acceptable harvest practices on farms in the area or individual farms?	Υ
Fallowing	
21. Does the FMAg/S identify the dates by which the area or individual farm will be fallow and the earliest date when a farm or area may be restocked?	Y
22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement?	Y
23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?	Y
Point of Compliance for Farm Management Agreements Only	
24. Does the farm management agreement include arrangements for persons to become, or cease to be, parties to the agreement?	Y
Management and operation	
25. Is the fish farm being managed and operated in accordance with the agreement or statement?	Y
26. What is the version no/date of issue of the FMAg/S? 01/03/2018	

Site No: FS0752

Case No: 2018-0279

Nature of non-compliance:

Action taken (FHI):

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

Case No: 2018-0279 Site No: FS0752 Date of visit: 07/08/2018

		-		•		-			
Start date:	End date: (if applicable)	Size of fish:	Average weight of affected population:	Species:	Yearclass:	Timescale	Mortality rate recorded(%):	Explained/ unexplained:	If explained, select reason(s):
25/09/17	01/10/2017	≥750g	960g	SAL	2017 S1	Weekly	1.14	Explained	PGD and AGD
20/11/17	26/11/2017	≥750g	2Kg	SAL	2017 S1	Weekly	1.68	Explained	PD and handling

If unexplained, select observations:	Total mortality during event (if available):	Additional information (e.g. action taken by company):	Action taken by FHI (include case no where applicable):
	10214	Company biologist informed.	MRT case - no action taken as report was retrospective
	7371	Company biologist informed.	MRT case - no action taken as report was retrospective.

Case No:	2018-0279	l		Date of visit:	07/08/2018]			
Site No:	FS0752			Inspector:	WJM]			
Results Summary	Freq.			Date of Notification					
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp	
Depart Cummon	1	-	-	1					
Report Summary	Date	Inon	ond to an						
Case Type REG/CNI/SLI/VMD	28/08/2018	Insp W.IM	2 nd Insp AJW						
	20/00/2010		,						

marine scotland science



The Scottish Salmon Company 1 Smithy Lane Lochgilphead Argyll PA31 8TA

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOFB0169SITE NOFS0752INSPECTORWarren Murray

DATE OF VISIT07/08/2018SITE NAMETaranaishCASE NO20180279

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

On this occasion, the routine, risk based inspection could not be conducted as the water temperature exceeded 14°C. This inspection will be rescheduled later in the year.

Records

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

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

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

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

Mortality records were inspected and found to be adequately maintained.

Mortality levels had exceeded the reporting criteria on one occasion since the last inspection and had not been reported to the Fish Health Inspectorate. I would like to remind you of the industry agreement in relation to mortality reporting as detailed in A Code of Good Practice for Scottish Finfish Aquaculture.

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 2013

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory with regards to parasites, fish farm management agreements and statements and containment and escapes.

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

Signed:

Date: 28/08/2018

Fish Health Inspector

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

FHI 059, Version 11	I	lssued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0280			Date of visit: 03/07/2018
Time spent on site:	hour	Main I	nspector: AJW
Site No: SS0551	Site Name:	Blaich, Loch Eil	
Business No: SB0363	Business Name:	Silver Sea Mussels	
Case Types: 1 REG	2 3	4 5	6
Water Temp (°C):	Thermometer No:		FHI 045 completed
Observations:	Region: HI	Water type: S	CoGP MA:
Dead/weak/abnormally behaving	j fish present?	If yes, see addition	nal information/clinical score sheet.
Clinical signs of disease observe	ed?		nal information/clinical score sheet.
Gross pathology observed? Diagnostic samples taken?		If yes, see addition	nal information/clinical score sheet.
Diagnostic samples taken:			
UNI/REG only - if unable to carry	/ out intended visit detail	reason below:	

FHI 059, Version 11 Additional Case Information:

Site observed from shore. No apparent signs of shellfish farming in the vicinity. Spoke to site manager over the phone and informed that no equipment on site. May develop the site in 2019. The information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated.

Case No:	2018-0280			Date of visit:	03/07/2018			
Site No:	SS0551	1		Inspector:	AJW	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					
Reg	13/07/2018	AJW	ALW					





Silver Sea Mussels 11 MacColl Terrace Ballachulish Argyll PH49 4JH

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOSB0363SITE NOSS0551INSPECTORAmanda Walker

DATE OF VISIT03/07/2018SITE NAMEBlaich, Loch EilCASE NO20180280

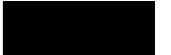
The above site was inspected, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009, and to meet the requirements of European Community Council Directive 2006/88/EC.

On this occasion, the site was found to be fallow.

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

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: 13/07/2018

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

FHI 059, Version 11		Issued by: FHI		Date of issue: 12/09/2017
Case No: 2018-0281				Date of visit: 03/07/2018
Time spent on site: 2	hours		Main Inspector	r: AJW
Site No: FS0150 Business No: FB0119	Site Name: Business Name:	Loch Lochy Marine Harvest	(Scotland) Ltd	
Case Types: 1 VMD 2	2 3	4	5	6
Water Temp (°C): 14.6	Thermometer No:			FHI 045 completed
Observations:	Region: HI	Water type	: F	CoGP MA:
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?		N If yes, see	additional inform	nation/clinical score sheet. nation/clinical score sheet. nation/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit detai	il reason below:		

Additional Case Information:

Morts currently 0.01% site wk. Looking for further input of 105,000 (41g) wk 6th August and 400,000 from Lochailort this week. Larger stock going off site 23rd July to Muck and Rum. Smaller stock remaining on until October 2018.

Dead fish on site incinerated

12th June; bath treatment formalin and pyceze, post transfer treatment in Q3 fish.

Formalin used as biocide but precautionary 500odays applied.

FHI 059, Version 11			lssu	ed by: FHI			Date of issu	e: 12/09/2017
Case No:	2018-0281]	Site No:	FS0150	0			
Date of Visit:		03/07/2018	3		Inspector(s):	AJW]
Registration/Autho 1. Business/site deta 2. Changes made to	ails summary		site representa	ative?			Y N]
Site Details								
Total No facilities		36	Facilities sto	cked	16	No facilitie	s inspected	10
Species	sal	sal						
Age group	2018 Q3	2018 Q4						
No Fish	1,215,864	600,788						
Mean Fish Wt	69.1g	15.41g						
Next Fallow Date (S	ite)	wk41 14 Oc	t for 2 weeks	Next Input Da	ate (Site)	This week		
Recent (last 4 wks) If yes, detail:	disease prob	lems?		Ν	Any escapes	s (since last	visit)?	Ν
Movement Records								
		r increation?						
 Movement record Date of last inspe 		or inspection?					24/11/2017	· ·
3. Are records comp		rectly entered	?				24/11/2017	Y
4. Are movement re		•						N/A
5. Are records comp								N/A
6. Are health certific	ates for intro	ductions (outv	vith GB) availa	able?				N/A
Transport Records								
1. Are any movement of yes, is there a system								
Mortality Records	·							
1. Mortality records	available for	inspection?						Y
2. How are mortalitie	es disposed o	of?			Incinerated -	on site		
If other detail:								
3. Mortality records		d correctly ent					-	Y
4. Recent mortality (1% for Q3. 0.1	11%/site/wk Q	4 post trans	fere	
5. Evidence of recer		••						N
If yes, facility nos/no	mortality pe	r tacility/no sto	ock per facility.	reason:				
6. Any other peaks i	n mortality du	uring period cl	necked?					N
If yes, detail:	(poyploined)	mortalition ha	on reported to	Not or EUI2				N/A
7. Have increased (ull f yes, detail action:	inexplained)	monalities be						IN/A
8. Have 'mortality ev	ents' been re	eported to FHI	? If no, add M	RT case and	enter on morta	ality events s	heet.	N/A
			,			.,		

Treatments and Medicines Records	
1. Recent treatments (last 4 wks)?	Y
If yes, detail: Formalin, 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)? Formalin	
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 a	iny
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 d is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	lisease
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or hig health status, certification if required)?	her
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minir transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	nise
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?	
If yes, detail (if not detailed under recent disease problems).	
Records checked between: 24/11/17-2/7/18	

FHI 059, Version 11				Issued by: FHI	
Case no:	2018-0281	Site No:	FS0150	Date of visit/ Sampling:	03/07/2018
Priority samples:	VI	BA	PA	MG	н
Time sampling starts/ends:	15:45:00	16:46:00	Inspector:	AJW	VMD No. 23
Environmental conditions:	1 Indoors	2	3	4	5
Summary samples	HIST	BA	MG VI	PA	Total Samples

Add Fish/Pools - click

	Pool/Fish No											
	Fish nos	1-6	7-16	17-22	23-31	33-38	39-47	48-53	54-62	63-71		
	Pool Group											
	Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL		
	Average weight	70g	70g	70g	70g	70g	70g	70g	70g	70g		
	Sex											
	Water Type	FW	FW	FW	FW	FW	FW	FW	FW	FW		
tock Details	Stock Origin Facility No	Lochailort	o Lochailort	o Lochailort	Lochailort	Lochailort	۷ Lochailort	 Lochailort 	o Lochailort	5 Lochailort		
S	Facility NO	1	2	3	4	5	1	8	9	10		

	Addition	nal Sam	ple Infor	mation:						
0]	Total Te	ests ass	igned	0					

Case No:	2018-0281			Date of visit:	03/07/2018				
Site No:	FS0150	1		Inspector:	AJW	I			
Results Summary	Freq.	Date of Notification							
		Database	Insp		Insp	Writing	Insp	2 nd Insp	
Report Summary									
Case Type	Date	Insp	2 nd Insp						
VMD	12/07/2018	AJW	ALW						

marine scotland science



Marine Harvest (Scotland) Ltd Stob Ban House Glen Nevis Business Park Fort William PH33 6RX

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOFB0119SITE NOFS0150INSPECTORAmanda Walker

 DATE OF VISIT
 02/07/2018

 SITE NAME
 Loch Lochy

 CASE NO
 20180281

Inspection under the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2013

The above site was visited in accordance with the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2013.

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.



Date: 12/07/2018

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

FHI 059, Version 11	lssu	ied by: FHI		Date of issue: 12/09/2017
Case No: 2018-0282			Date of	visit: 03/07/2018
Time spent on site:	6 hours	Main	n Inspector:	AJW
Site No: FS1269 Business No: FB0119	Site Name: Business Name:	Lochailort Recirculation Marine Harvest (Scot		
Case Types: 1 ECI	2 CNI 3 VMD	4 5	6	
Water Temp (°C): 6.5-16	Thermometer No:	T146	FHI 045	completed
Observations:	Region: HI	Water type: F	CoG	P MA:
Dead/weak/abnormally behavir Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?	• •	N If yes, see addition	onal information/cli onal information/cli onal information/cli	inical score sheet.
UNI/REG only - if unable to car	ry out intended visit detail rea	ason below:		

Additional Case Information:

20g fish being moved out to Lochy this week. 80g fish going to sea from next Monday - Eirisort and Muck.

Treatment for gill and gut fungus in fry unit Q1 parr destined for Lochy in October. Formalin and pyceze.

VMD fish not on withdrawal.

BMP to be updated on procedures for dead fish culls.

Current mort levels; 0.02% in 2018 Q3, 0.002% in 2018 Q4, 0.12% in 2019 Q1 parr, 0.34% in 2019 Q1 fry (% for site/week) Morts mainly attributed to deformities in fry

FHI 059, Version 11			Issu	ued by: FHI			Date of issu	e: 12/09/2017
Case No:	2018-0282		Site No:	FS1269	9			
Date of Visit:		03/07/2018	3		Inspector(s):	AJW]
Registration/Autho 1. Business/site deta 2. Changes made to	ails summary		site represent	ative?			Y N]
Site Details								
Total No facilities		56	Facilities sto	ocked	51	No facilitie	s inspected	56
Species	sal	sal	sal	sal			•	
Age group	alvins,2019	, fry 2019 Q1	2018 Q4	2018 Q3				
No Fish	3,747,842	3,393,484	1,559,436	1,785,468				
Mean Fish Wt	N/A	0.53	20g	86g (14				
Next Fallow Date (S	ite)	none		Next Input Da	ate (Site)	Nov/Dec c	va from Norv	vay
	,				7			
Recent (last 4 wks)	disease prob	lems?		N	Any escapes	s (since last	visit)?	Ν
If yes, detail:								
Movement Records	s							
1. Movement record	ls available fo	or inspection?						Y
2. Date of last inspe							10/10/2017	
3. Are records comp		rectly entered	?					Y
4. Are movement re	cords availat	ole for dead fis	sh and waste	?				Y
5. Are records comp								Y
6. Are health certific	ates for intro	ductions (outv	vith GB) avail	able?				Y
Transport Records	;							
1. Are any movemen								N
If yes, is there a sys	tem in place	for maintenan	ice of transpo	ortation records	?			
Mortality Records								
1. Mortality records	available for	inspection?						Y
2. How are mortalitie	es disposed o	of?			Incinerated -	on site		
If other detail:								
3. Mortality records	•	d correctly ent						Y
4. Recent mortality (. ,		see addition	nal info				
5. Evidence of recer				,				N
If yes, facility nos/no	o mortality pe	r facility/no sto	ock per facility	y/reason:				
6. Any other peaks i	n mortality d	Iring period of	hockod?					N
If yes, detail:		uning period ci	leckeu?					
7. Have increased (unexplained)	mortalities be	en reported t	o vet or FHI?				N/A
If yes, detail action:	· · · · · · · · · · · · · · · · · · ·							
8. Have 'mortality ev	vents' been re	eported to FHI	I? If no, add N	MRT case and	enter on morta	ality events s	sheet.	N/A

Treatments and Medicines Records	
1. Recent treatments (last 4 wks)?	Y
If yes, detail: formalin and pyceze this week in fry unit for gill and gut health	
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)? Formalin in Q1 Fry	-
If other, detail:	
6. Are medicines stored appropriately?	Y
Biosecurity Records	
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?	Y
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease	Y
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)?	Y
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	Y
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	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?	Y
2. If yes, are results available for inspection?	Y
3. Any significant results?	N
If yes, detail (if not detailed under recent disease problems).	
Records checked between: 10/10/17-3/7/18	

F	HI 059, Version 11				Issued by: FHI		
	Case no:	2018-0282	Site No:	FS1269	Date of visit	03/07/2018	
1	Priority samples:	VI	ВА	PA	MG	н	
	Time sampling starts/ends: Environmental conditions:	12:00:00	14:00:00	Inspector:	AJW	VMD No.	38
1	Summary samples	HIST	BA	3 MGVI	4PA	Total Sam	oles

Add Fish/Pools - click

	Pool/Fish No												
	Fish nos	1-6	7-12	13-18	19-24	25-30	31-36	37-42	43-48	49-54	55-60	61-66	67-72
	Pool Group												
	Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL
	Average weight	100g	100g	100g	100g	100g	100g	100g	100g	100g	100g	100g	100g
	Sex												
	Water Type	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW	FW
Stock Details		05 Norway, Tvierevag	14 Norway, Tvierevag	25 Norway, Tvierevag	65 Norway, Tvierevag	4 Norway, Tvierevag	54 Norway, Tvierevag	95 Norway, Tvierevag	4 Norway, Tvierevag	æ Norway, Tvierevag	66 Norway, Tvierevag	6 Norway, Tvierevag	ପ୍ର Norway, Tvierevag

	Addition	nal Sam	ple Infor	mation:							
0	1	Total To	ests ass	ianed	0	1					
	1		0010 000	.9	-						
	L										
73-78	79-84										
SAL 100g	SAL 100g										
Tuug	Tuug										
FW	FW										
	_										
vag	vag										
ere	ere										
T <i< td=""><td>ΤŽ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></i<>	ΤŽ										
ay,	ay,										
Norway, Tvierevag	Norway, Tvierevag										
	Ž										
53	54										•

		ISSUED by. I TH			Date	01 13300	. 12/09/201
Case Number:	2018-0282		Site No:	FS1269		Insp:	AJW
Date of Visit	03/07/2018		No of m	ovements/s	upp./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 neuliding third country	0	9	18	26	18
	Number of sup		0		10	14	5
Movements off	Frequency of n	novements off	0	3	6	10	10
	Number of des		0		6	10	6
Exposure via water		Site contacts	0	1-5	6-10	,	
Water contacts with other farms (holding species	Farm is protect disinfection or	ed (secure water supply through borehole)	0				
susceptible to same diseases)		or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		1
		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		C
On farm processing within the rules of the directive	No on farm pro	cessing	0				(
	Processing ow	n fish (re-cycling risk)	1	1			
	Processing fish	n from MS of equivalent status	2				
	Processing fish equivalent state	n from zone or compartment of us	4				
	Processing fish	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				
Use of unpasteurised feeds	No feeding of u	Inpasteurised feed	0	1			
	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		(
	Sites sharing s	taff and equipment	0	1	2		
Disinfection of equipment	Yes		0	1			
between sites, use of footbaths etc	No		1				
CoGP/Regulator							
Practices in accordance with regulator or industry	Yes		0				(
code of practice	No		3				
Platform access to cages	Yes		0				(
	No		2				
					Total		40
					Rank		HIGH

FHI 059, Version 11		Issued by: FHI		Date of iss	ue: 12/09/2017
Case No:	2018-0282	S	ite No: FS12	69	
Sea Lice Inspection (S	••				
	ced sea lice problems in the previou			as basis?	
3. Does the site have ac azamethiphos and emar	anagement Area (or equivalent) fall ccess to a range of licenced in-feed mectin benzoate) as well as access n a reasonable period of time?	and bath sea lice medica	ations (including	deltamethrin,	
	umented farm management agreem	nent or statement relevan	t to the site and	CoGP Farm	
5. Are sea lice count rec	cords available for inspection? (Lega	al SSI, CoGP Annex 6)			
6. Do records adequatel	ly reflect the required standard spec	cified in the SSI and the C	CoGP? (Legal SS	SI, CoGP Annex 6)	
7. Are sea lice (<i>L. salmo</i> records are inspected?	onis) record levels below the sugges (CoGP Annex 6)	sted criteria for treatment	in the CoGP du	ring the period that	
8. Have average adult fe records are inspected?	emale sea lice (<i>L. salmonis</i>) numbe	ers per fish been at a leve	l of 3 or above d	luring the period that	
If yes, have these been	reported to the Fish Health Inspector	orate? If no, FHI see com	iment.		
9. Is C. elongatus infest	ation at a level which is considered	I to cause significant welf	are problems? (C	CoGP 4.3.81, 5.3.50)	
-	eatments been administered or othe eatment or where <i>C. elongatus</i> is co				
11. Has any other action	been taken (where applicable)?				
12. Have therapeutic tre	atments or the actions taken had a	significant impact upon t	he lice levels rec	corded?	
	re conducted, carried out in cooper strategy for the site, where fewer p		-	ithout treatment for	
sea lice?					
	ic written lice management procedu calation of a sea lice infestation?	ure with waypoints descri	oing set actions t	to deal with recognised	
16. Does the stock on si reasons.	ite appear satisfactory in relation to	sea lice level and sea lic	e count data? If	no please detail	
Containment Inspectio	on ced equipment damage due to pred	dators in the current or pr	ovique productio	n oveloc?	N
	e to mitigate against the predation e				N X
inside	s to magate against the predation t				
If other, detail below:					
					Ν
	its or events been experienced on o		since the last F	HI Inspection?	
	stions 4 – 9. If No skip to question 1 orted to Scottish Ministers?	10			
	orted to local DSFB forthwith (where	· · ·			
6. Have these been repo	orted to the SSPO and local fisherie	es trusts forthwith (where	they exist)? (Co	GP – 4.4.37, 5.4.17)	
7. Were methods (if any) used to recover escapees? If yes	give detail			
	yed was this action agreed with loca	al wild fish interests and	was permission g	given by Scottish	
Ministers? (Legal, CoGF 9. What action was take	P – 4.4.38, 5.4.18) on to prevent and minimise the risk of the second	of further escapes? (Not	covered in code	but could	
	satisfactory measures of the Act				
	as satisfactory with regards to cont		etail reason(s)		Y

Case No:	2018-0282			Date of visit:	03/07/2018			
Site No:	FS1269	1		Inspector:	AJW			
Results Summary	Freq.			Dat	te of Notificat	tion		
,	·	Database	Insp			Writing	Insp	2 nd Insp
Report Summary			- nd -					
Case Type ECI, CNI, VMD	Date 12/07/2018	Insp A IW	2 nd Insp ALW					
	12/01/2010	7.3 1 1						

marine scotland science



Marine Harvest (Scotland) Ltd Stob Ban House Glen Nevis Business Park Fort William PH33 6RX

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOFB0119DATE OF VISITSITE NOFS1269SITE NAMEINSPECTORAmanda WalkerCASE NO

DATE OF VISIT03/07/2018SITE NAMELochailort Recirculation HatcheryCASE NO20180282

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

R04

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 2013

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:

Date: 12/07/2018

Fish Health Inspector

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

FHI 059, Version 11	I	Issued by: FHI		Date of it	ssue: 12/09/2017
Case No: 2018-0283				Date of visit:	04/07/2018
Time spent on site: 7	hours		Main Inspector	r: A.	JW
Site No:FS0546Business No:FB0125	Site Name: Business Name:	Nevis C (Ardintig Scottish Sea Far			
Case Types: 1 ECI	2 CNI 3 SLI	4 VMD	5	6	
Water Temp (°C): 10.5	Thermometer No:	T146		FHI 045 complet	ted
Observations:	Region: HI	Water type:	S	CoGP MA:	M-23
Dead/weak/abnormally behaving Clinical signs of disease observe Gross pathology observed? Diagnostic samples taken?	•	N If yes, see a	dditional inform	nation/clinical sco nation/clinical sco nation/clinical sco	ore sheet.
UNI/REG only - if unable to carry	out intended visit detail	reason below:			

Additional Case Information:

Fish on site from Knock and Landcatch input 28th March and 6th April 2018

Current morts approx. 36 /site per day. Very low and not attributed to cause

Morts since input mainly attributed to failed smolts and jelly fish. Peak 350 fish day attributed to post transfer 9/4/18 for site.

Routine health checks completed by co health team.

2 slice treatment since input.

Last slice on 8th June. Lice levels not above treatment trigger. Due to carry out another one in next few weeks

Will be getting cleaner fish this cycle (hope to get wild wrasse).

Lice levels very low this cycle. Previous cycle had lice issues. 7th Feb 2018 fallowed. Live harvest in well boat. Thermo, hydro and chemical treatment (peroxide) previous cycle to control lice levels.

Current lice levels zero at last count. Gill scores also 0 for AGD and 1 for PGD in a few fish

High lice levels verbally reported as high in previous cycle, actual figures were not available. E-mail sent to confirm lice figures for previos cycle. 31/7/18. Information received from business correspondent 2/8/18; Following review of the data for Nevis C I am able to confirm that the record shows no counts over 3 but as you are aware this crop had 3 non-medicinal interventions from week 22 to week 44 of 2017 and the situation was challenging. Late wrasse inputs held the adult female position until harvest. Mobile counts on the farm, on the other hand, were indeed high.

No site manager currently in place. BMP, Farm Management Statement and health surveillance reports not available for inspection. VHP received by e-mail 5/6/18. FMA received by e-mail 16/7/18

Assisted by SJ.

FHI 059, Version 11			lssu	ed by: FHI			Date of issu	e: 12/09/2017
Case No:	2018-0283]	Site No:	FS0546]			
Date of Visit:		04/07/2018			Inspector(s):	AJW]
Registration/Autho 1. Business/site deta 2. Changes made to	ails summary		ite representa	ative?			Y Y	}
Site Details								
Total No facilities	r	12	Facilities sto	cked	11	No facilitie	s inspected	11
Species	sal 2018 Q1							
Age group No Fish	306,561							
Mean Fish Wt	266g							
Next Fallow Date (S	-	Sept 2019		Next Input Da	ate (Site)	End 2019		
× ×	,				1	P		
Recent (last 4 wks)	disease probl	lems?		N	Any escapes	s (since last	visit)?	Ν
If yes, detail:								
Movement Records								·
1. Movement record		or inspection?					40/40/0040	Y
 Date of last inspects Are records comp 		actly antered?	,				13/12/2016	Y
4. Are movement re-		•						N/A
5. Are records comp								N/A
6. Are health certific				able?				N/A
Transport Records								
1. Are any movemer	nts carried ou	it by (or on bel	half) of the bu	ısiness (not usi	ing a STB)?			N
If yes, is there a syst								
Mortality Records								
1. Mortality records a	available for i	nspection?						Y
2. How are mortalitie	es disposed c	of?			Incinerated -	on site		
If other detail:		l correctly cost	arad 2					
 Mortality records of Recent mortality (i correctiy ente		or last month.				I
5. Evidence of recer		atvoical mortal						N
If yes, facility nos/no		••		/reason:				
6. Any other peaks in	n mortality du	iring period ch	ecked?					N
If yes, detail: 7. Have increased (u	(nexplained)	mortalities be	en reported to	vet or FHI2				N/A
If yes, detail action:	(interplained)							
8. Have 'mortality ev	ents' been re	ported to FHI	? If no, add M	IRT case and e	enter on morta	ality events s	sheet.	N/A

Treatments and Medicines Records		
1. Recent treatments (last 4 wks)?		Y
If yes, detail: T.M.S., Slice		
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)?	SLICE and TMS	
If other, detail:		
6. Are medicines stored appropriately?		Y
Biosecurity Records		
1. Biosecurity records available for inspection?		Y
2. Has the manner and frequency of mortality removal, reco	rding and safe disposal been considered?	Y
3. Has the manner and period in which the APB will notify Se	cottish Ministers or veterinary professional of any	
increased (unexplained) mortality at the site been included?	<u>}</u>	Y
4. Has the action that will be taken in the event that the pres		Y
is detected been included and how and when that will be no	-	
5. Has the health status of aquaculture animals being stocke health status, certification if required)?	ed on the farm site been covered (equal or higher	Y
6. Have the husbandry and biosecurity measures implement transmission of disease been covered (movement of staff, v		Y
7. Is documentation available regarding the measures in pla aquaculture animals held on site?		Y
8. Have the biosecurity procedures been adequately implem	iented on site?	Y
If no, detail:		
Results of Surveillance		
 Has any animal health surveillance been carried out by, o If yes, are results available for inspection? 	r on behalf of, the business?	Y N
3. Any significant results?		N
If yes, detail (if not detailed under recent disease problems). verbally informed that there were no significant results.		
Records checked between:	13/12/16 - 4/7/18	

Case no: 2018-0283 Site No: FS0546 Date of visit/ 04/0 Priority samples: VI BA PA MG HI Time sampling 12:00:00 13:00:00 Inspector: AJW VMD No starts/ends: Environmental conditions: 1 Sunny 2 Calm 3 4 5	07/2018 o. 23 Total Samples
Priority samples: VI BA PA MG HI Time sampling starts/ends: 12:00:00 13:00:00 Inspector: AJW VMD No	
starts/ends:	
Environmental conditions: 1 Sunny 2 Calm 3 4 5	Total Samples
	Total Samples
Summary samples HIST BA MG VI PA	Total Samples
Add Fish/Pools - click	
Pool/Fish No Image: Constraint of the second s	
Pool Group 1-0 7-12 13-16 19-23	
Species Sal Sal Sal Sal	
Average weight 200g 200g 200g 200g	
Sex Sex	
Water Type SW SW SW SW	
Stock Origin Facility No 1 2 11 12	

	Additional Sample Information:														
															_
0	0 Total Tests assigned 0														

FHI 059, Version 11		Issued by: FHI			Date		: 12/09/201
Case Number:	2018-0283		Site No:	FS0546		Insp:	AJW
Date of Visit	04/07/2018	No of m	ovements/s	supp./dest.		Score	
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	1 3	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	
	Number of sup		0	5	10	14	<u> </u>
Movements off	Frequency of n	novements off	0	3	6	10	10
	Number of des		0	3	6	10	
Exposure via water		Site contacts	6 0	1-5	6-10		
Water contacts with other farms (holding species	Farm is protect disinfection or I	ed (secure water supply through	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		
On farm processing within the rules of the directive	No on farm pro	-	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				
products	Common proce	esses with other farms	3	1			
	Collection poin	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	npasteurised feed	0	1			(
	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		
	Sites sharing s	taff and equipment	0	1	2		
Disinfection of equipment	Yes		0				(
between sites, use of footbaths etc	No		1				
CoGP/Regulator							
Practices in accordance	Yes		0				(
with regulator or industry code of practice	No		3				
Platform access to cages	Yes		0				(
	No		2				
					Total Rank		18 MEDIUM

FHI 059, Version 11	Issued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0283	Site N	lo: FS0546
Sea Lice Inspection (Seawater Sites Only) 1. Has the site experienced sea lice problems	in the previous 4 years?	Y
2. Is the CoGP Farm Management Area (or ed		gle year class basis? Y
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 4. Is there a signed documented farm manage	enced in-feed and bath sea lice medications well as access to suitable biological and/or of time?	s (including deltamethrin, mechanical control measures, and
Management Area (or equivalent)?	-	
5. Are sea lice count records available for insp	pection? (Legal SSI, CoGP Annex 6)	Y
6. Do records adequately reflect the required s	standard specified in the SSI and the CoGF	P? (Legal SSI, CoGP Annex 6) Y
7. Are sea lice (<i>L. salmonis</i>) record levels belor records are inspected? (CoGP Annex 6)	ow the suggested criteria for treatment in th	ne CoGP during the period that Y
8. Have average adult female sea lice (<i>L. saln</i> records are inspected?	<i>noni</i> s) numbers per fish been at a level of 3	3 or above during the period that
If yes, have these been reported to the Fish H	ealth Inspectorate? If no, FHI see commen	nt. N/A
9. Is C. elongatus infestation at a level which	is considered to cause significant welfare p	oroblems? (CoGP 4.3.81, 5.3.50) N
10. Have therapeutic treatments been adminis suggested criteria for treatment or where <i>C. e.</i>		
11. Has any other action been taken (where a	pplicable)?	Y
12. Have therapeutic treatments or the actions	s taken had a significant impact upon the lie	ce levels recorded? Y
13. Are treatments, where conducted, carried	out in cooperation between participating fa	rms? Y
14. Is there a harvesting strategy for the site, v sea lice?	where fewer populations or part populations	s are held without treatment for Y
15. Is there a site specific written lice manage scenarios during the escalation of a sea lice in		set actions to deal with recognised Y
16. Does the stock on site appear satisfactory reasons.	in relation to sea lice level and sea lice co	unt data? If no please detail Y
Containment Inspection		
1. Has the site experienced equipment damage	· · ·	
2. Are measures in place to mitigate against the	he predation experienced on site? (Detail b	elow) Y
top net and A.D.D.		
If other, detail below:		
3. Have escape incidents or events been exp	erienced on or in the vicinity of the site sind	ce the last FHI inspection?
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	rthwith (where they exist)? (CoGP – 4.4.37	7, 5.4.17)
6. Have these been reported to the SSPO and	l local fisheries trusts forthwith (where they	exist)? (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 ag Ministers? (Legal, CoGP – 4.4.38, 5.4.18)		
9. What action was taken to prevent and minir		red in code but could
be considered under satisfactory measured		
10. Is the site inspected as satisfactory with re-	egards to containment? If no, please detail	reason(s) Y

FHI 059, Version 11	Issued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0283 Si	te No: FS0546	
Date of Visit: 04/07/2018	Inspector: AJW	
Point of Compliance		
1. Is the farm under inspection located with	nin a farm management area?	Y
If N, no further questions require completion	on.	
Points of Compliance for Both Farm Ma	inagement Agreements and Statement	S
2. Has a current farm management agreer		ed?
 Is the current FMAg/S available for insp Does the FMAg/S identify the relevant fa 		Ϋ́ Υ
5. Does the FMAg/S identify the fish farm s 6. Does the FMAg/S identify the date of co		Y V
7. Does the FMAg/S identify the date of re	-	Y
Arrangements for Fish Health Managem	nent	
8. Does the FMAg/S identify the minimum farm?	health standards for the stocks to be intro	oduced to the area or Y
9. Does the FMAg/S identify the vaccination	on requirements for stocks held in the area	a or farm?
10. Does the FMAg/S identify the species	•	
11. Does the FMAg/S identify the maximum individual farm?	in stocking density of any perior any farm	
12. Does the FMAg/S identify the arranger fish farm in the area or the individual farm		dead fish from any Y
Arrangements for The Management of S	Sea Lice	
13. Does the FMAg/S identify arrangemen	ts for the sharing of data on sea lice num	bers and treatments? Y
14. Does the FMAg/S identify the availabili of statement?	ty and the use of medicines on farms cov	
15. Does the FMAg/S identify any requiren lice on farms in the area or individual farm		
16. Does the FMAg/S identify the circumst used on farms in the area or individual farm		d cleaner fish are to be Y
17. Does the FMAg/S identify the arranger		ns within the area? Y
Live Fish Movements		
18. Does the FMAg/S identify the circumst area or farm?	·	
19. Does the FMAg/S identify the arranger or individual farms?	nents for the movement of live fish on and	d off sites in the area Y

Harvesting

20. Does the FMAg/S identify acceptable harvest practices on farms in the area or individual farms?	Y
Fallowing	
21. Does the FMAg/S identify the dates by which the area or individual farm will be fallow and the earliest date when a farm or area may be restocked?	Y
22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement?	Y
23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?	Y
Point of Compliance for Farm Management Agreements Only	
24. Does the farm management agreement include arrangements for persons to become, or cease to be,	N/A
parties to the agreement?	
parties to the agreement? Management and operation	
	Y

Case No:	2018-0283	Date of visit: 04/07/2018									
Site No:	FS0546]		Inspector:	AJW]					
Results Summary	Freq.			Date of Notification							
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp			
Report Summary	-										
	Date	Insp	2 nd Insp								
Case Type ECI, SLI, CNI, VMD	08/08/2018	AJW	ALW								
	-										

marine scotland science



Scottish Sea Farms Ltd Laurel House Laurelhill Business Park Polmaise Road Stirling FK7 9JQ

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOFB0125SITE NOFS0546INSPECTORAmanda Walker

DATE OF VISIT04/07/2018SITE NAMENevis C (Ardintigh)CASE NO20180283

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

Reports detailing the results of animal health surveillance carried out by or on behalf of the business and/or Marine Scotland were not available for inspection.

R25

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 2013

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory with regards to parasites, fish farm management agreements and statements and containment and escapes.

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

Signed:

Date: 08/08/2018

Fish Health Inspector

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

FHI 059, Version 11	ls	sued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0284			Date of visit: 04/07/2018
Time spent on site:	10 mins	Main Inspe	ector: AJW
Site No: SS0536 Business No: SB0348	Site Name: Business Name:	Port Longary Kilchoan Estate	
Case Types: 1 REG	23	4 5	6
Water Temp (°C):	Thermometer No:		FHI 045 completed
Observations:	Region: HI	Water type: S	CoGP MA:
Dead/weak/abnormally behavin Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?	• •	If yes, see additional in	nformation/clinical score sheet. nformation/clinical score sheet. nformation/clinical score sheet.
UNI/REG only - if unable to car	ry out intended visit detail r	eason below:	

Site observed during site visit to Nevis C. No buoys observed in the vicinity of the shellfish farm.

Site contact informed me over the phone that the site has not been visited by their staff in the last 4 years. Hope to develop the site next year if they can find someone to take on the management.

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

Case No:	2018-0284	Date of visit: 04/07/2018									
Site No:	SS0536	1		Inspector:	AJW						
Results Summary	Freq.			Date of Notification							
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp			
Report Summary											
Case Type	Date	Insp	2 nd Insp								
Reg	13/07/2018	AJW	ALW								

marine scotland science



Kilchoan Estate Kilchoan Estate Office Inverie, Knoydart Mallaig, Inverness-shire PH41 4PL

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOSB0348SITE NOSS0536INSPECTORAmanda Walker

DATE OF VISIT04/07/2018SITE NAMEPort LongaryCASE NO20180284

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

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

On this occasion, the site was found to be fallow.

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: 13/07/2018

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

FHI 059, Version 11	lss	sued by: FHI		Date of i	ssue: 12/09/2017
Case No: 2018-0289				Date of visit:	11/09/2018
Time spent on site: 6	hours		Main Inspecto	or: A	JW
Site No: FS0745 Business No: FB0125	Site Name: Business Name:	Lismore North Scottish Sea Fa	arms Ltd		
Case Types: 1 ECI 2	CNI 3 SLI	4 VMD	5 DIA	6	
Water Temp (°C): 13.8	Thermometer No:	T146		FHI 045 comple	ted
Observations:	Region: ST	Water type	e: S	CoGP MA:	M-36
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	Y If yes, see	additional inform	mation/clinical sco mation/clinical sco mation/clinical sco	ore sheet.
UNI/REG only - if unable to carry	out intended visit detail re	eason below:			

Cleaner fish on site; Baleen wrasse from Otterferry and Machrihanish. Vaccination ridgeway biological

Morts generally incinerated on site but recent increase in morts has required collection by Billy Bowie for disposal.

Peak in morts;5/9/18 -1421 morts for day/site - wb/3/9/18 - 6904 morts/week - 3.08%

Cages 10, 12 and 14 worst effected by morts and loss of apatite. Over summer morts for site had been about 200/site/week. Increased; 3/9/18;739, 4/9;882, 5/9; 1421, 6/9;1341, 7/9;1267, 8/9;1047, 9/9 946 10/9; 1047

Gill scores have been high but are improving. - increase thought to be in part due to net cleaning. Currently scores are 1 or 2. vet report; AGD, Branchiomonas, Paranucleospora theridion, salmon gill pox; complex gill pathology

moritella toxaemia - report 4/9/18 Piscine reovirus (HSMI) in report 4/9/18 - CMS negative - SAV negative - IPN negative; results from MS via fish vet group.

SLICE for caligus, finished 2 days ago. 31/8-8/9. 500 degree day withdrawal.

Previous crop had issues with lice. This crop wrasse on site. 4 slice treatments since input and lice skirts. Getting more wrasse from Machrihanish this month. Lice levels current 1.4 adult female. Just treated with slice. Caligus 1.83 average. 10/9/18.

FHI 059, Version 11			Issu	ed by: FHI			Date of issu	e: 12/09/2017	
Case No:	2018-0289		Site No:	FS0745	5				
Date of Visit:		11/09/2018	3		Inspector(s):	AJW]	
Registration/Autho 1. Business/site deta 2. Changes made to	ails summary		site representa	ative?			Y N]	
Site Details	Details								
Total No facilities		14	Facilities sto	cked	6	No facilitie	s inspected	14	
Species	sal	wrasse							
Age group	2017 So	adult			1				
No Fish	224,046	12,000							
Mean Fish Wt	1.533	50g							
Next Fallow Date (S	ite)	June 2019		Next Input Da	ate (Site)	Nov 2019			
					1				
Recent (last 4 wks)	disease prob	olems?		Y	Any escapes	s (since last	visit)?	N	
If yes, detail:	high morts	due possibly to	o gill issues						
Movement Records	s								
		or increation?						Y	
 Movement record Date of last inspe 		or inspection?					29/11/2016	<u> </u>	
3. Are records comp		rectly entered	>				29/11/2010		
4. Are movement re		•						- Y	
5. Are records comp									
6. Are health certific				able?				N/A	
Transport Records	5								
1. Are any movemer	nts carried o	ut by (or on be	half) of the hu	isiness (not us	ing a STB)2			N	
If yes, is there a sys									
Mortality Records									
Mortality Records									
1. Mortality records	available for	inspection?						Y	
2. How are mortalitie		•			Incinerated -	on site			
If other detail:	l .				•				
3. Mortality records	complete an	d correctly ent	ered?					Y	
4. Recent mortality (last 4 wks):	· ·	see additiona	al info.				-	
5. Evidence of recer	nt increased/	atypical morta	lities?					Y	
If yes, facility nos/no				/reason:				.	
Cages; 12,10,14 - se									
6. Any other peaks i	n mortality d	uring period cl	necked?					Y	
	fungus post								
7. Have increased (u	unexplained)							Y	
If yes, detail action:				will be taken no					
8. Have 'mortality ev	ents' been r	eported to FH	? If no, add M	RT case and e	enter on morta	ality events s	heet.	N	

I reatments and Medicines Records		
1. Recent treatments (last 4 wks)?		Y
If yes, detail: see additional info		
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)?	slice and TMS	
If other, detail:		
6. Are medicines stored appropriately?		Y
Biosecurity Records		
1. Biosecurity records available for inspection?		Y
2. Has the manner and frequency of mortality removal, reco	ording and safe disposal been considered?	Y
3. Has the manner and period in which the APB will notify S	cottish 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 press is detected been included and <i>how</i> and <i>when</i> that will be not	· · ·	Y
5. Has the health status of aquaculture animals being stock		Y
health status, certification if required)?		
6. Have the husbandry and biosecurity measures implement	nted between each epidemiological unit to minimise	Y
transmission of disease been covered (movement of staff, v	visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in pla	ace to maintain the physical containment of	Y
aquaculture animals held on site?		
8. Have the biosecurity procedures been adequately implementation	nented on site?	Y
If no, detail:		
Results of Surveillance		
1. Has any animal health surveillance been carried out by, c	or on behalf of, the business?	Y
2. If yes, are results available for inspection?		Y
3. Any significant results?		Y
If yes, detail (if not detailed under recent disease problems)		
complex gill issues and HSMI		
Records checked between:	29/11/16- 11/9/18	

2018-0289

FHI 059, Version 11				Issued by: FHI		
Case no:	2018-0289	Site No:	FS0745	Date of visit/ Sampling:	11/09/2018 1	1/(
Priority samples:	VI	BA	PA	MG	н	
Time sampling starts/ends:	11:00:00	13:00:00	Inspector:	AJW	VMD No. 1	3
Environmental conditions:	1 Indoors	2	3	4	5	
Summary samples	HIST Y	BA Y	MG Y VI	Y PA	Total Samples	\$

Add Fish/Pools - click

	Pool/Fish No	F1	F2	F3	F4	F5	P1				
	Fish nos	1	2	3	4	5	1-5	6	7		
	Pool Group	P1	P1	P1	P1	P1					
	Species	SAL	SAL								
	Average weight	1.5KG	1.5KG								
	Sex										
	Water Type	SW	SW								
Stock Details	Stock Origin	Loch Damph	ა Loch Damph	cch Damph							
S		14	14	14	14	14	14	9	13		

09/2018 Additional Sample Information:													
6		Total Te	ests ass	igned	3								
	•			-	-	•							

FHI 059, Version 11			Issued by: FHI			Date of issue: 12/09/20				
Case no:	2018-0289		Site N	No:	FS074	15	Method of killing: Percussive			
Date of visit:	11/09/20	018	Inspe	ector(s):	AJW			Sheet Relevant: Y		
S for strong proper	aaa: M far madium processo: W	for wook pro								
Fish Number	nce: M for medium presence: W			2 3	3 4	1 5				-
	er death (if > 45 minutes)									
External Signs	\$ •									
Behaviour	Moribund									
	Lethargic	М	М	М	М	М				_
	Hanging vertical		_	_						
	Spiralling	_	_	_	_					_
	Flashing Loss of equilibrium									
Body	Dark		-	-						_
Body	Distended abdomen	-		-			-			
	Anorexic									
	Scale Oedema									
Opercula	Shortened									
	Flared									
Haemorrhaging	Throat									
	Ventrum									
	Base of fins									
_	Elsewhere				_					
Eyes	Exophthalmic									
	Enophthalmic (sunken)		_	_						_
	Cataract Haemorrhagic			-						
Gills	Pale	S	Μ	S	М	М				_
	Zoned	-								
	Necrotic	W	W	W	W	W				
Lesions	Flank									
	Elsewhere									
Vent	Inflamed									
	Trailing faeces									
Lice Load	Estimate numbers									
Internal Signs		_		_	_					_
Ascites	Clear		-							
Oedema	Bloody		_	_						_
Heart	In tissues Pale/anaemic	_	-	_	-	_				
nean	Granulomas									
	Deformed									
Liver	Petechial haem									
	Gross haem									
	Tissue breakdown									
	Enlarged									
	Colour number(s)									
	Granulomas									
	Lesions									
Pyloric caeca	Petechial haem									
	Tubules mauve	w	M	M	м	w				
Spleen	Lack of fat Enlarged	VV	141	141	IVI	~~				
Spieen	Granulomas									-
Gut	No food present	S	S	S	S	S				-
	Yellow pseudo-faeces									
	External haem									
	Internal haem									
Body wall	Haemorrhaging									
Swim bladder	Haemorrhaging									
	Fluid filled									
Kidney	Swollen									
	Grey									
	Granular		-		<u> </u>					_
Gonoral	Liquefied Parasitos present									-
General	Parasites present Anaemia									_
4	Allacillia									

Case no:	2018-0289

Г

Date of visit:

11/09/2018

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

Fish Number Image and after death (f > 45 minutes) Image and after death (f > 45 minu		ce: M for medium presence: W for v	n	 				
External BahaviorMorbund <th< th=""><th>Fish Number</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>	Fish Number							
Behaviour Lathargic Hanging verticalII		er death (if > 45 minutes)						
Lethargic Anging writical SpiralingII<								
Harqing verticalIII <th>Behaviour</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Behaviour							
Spiraling Hashing Loss of quilibrium BodyLoss of quilibrium Loss of quilibrium SoleLoss of quilibrium Loss of quilibrium Loss of quilibrium SoleLoss of quilibrium Loss of quilibrium Loss of quilibrium Loss of quilibrium SoleLoss of quilibrium Loss of quilibrium Loss of quilibrium Loss of quilibrium Loss of quilibrium SoleLoss of quilibrium Loss of quilibrium Loss of quilibrium Loss of quilibrium Loss of quilibrium SoleLoss of quilibrium Loss of quilibri								
Hashing Loss of equilibriumIII <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>								
Loss of quillibriumLoss of quill								
BadyDisknd abdommII <td></td> <td>Flashing</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Flashing						
Distanded abdomen Image: Section of the s								
Anoresic	Body							
Scale Orderma Southered								
Opercula Shortened Image								
Fland Image Image <th< td=""><td></td><td>Scale Oedema</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		Scale Oedema						
Hemorrhaging Threat Image	Opercula	Shortened						
Ventrum Image: Constraint of the sector of the		Flared						
Base of fins Image: Star Strain	Haemorrhaging	Throat						
Elsewhere Image: Constraint of the second seco		Ventrum						
Eyes Exophthalmic (sunken) Image: supplication of the supplication of		Base of fins						
Enophthalmic (sunken) Image: Cataract Imag		Elsewhere						
Cataract Image	Eyes	Exophthalmic						
Cataract Image		Enophthalmic (sunken)						
GillsPaleImage: second s								
GillsPaleImage: second s		Haemorrhagic						
Zoned Merrotic Merrotic <t< td=""><td>Gills</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Gills							
Necrotic Image: state in the s								
Elsewhere Image								
Elsewhere Image	Lesions	Flank						
Trailing faces Image: Second Seco								
Lice LoadEstimate numbersImage: space of the spac	Vent	Inflamed						
Lice LoadEstimate numbersImage: space of the spac								
Internal SignsImage: Signs of the second	Lice Load							
AscitesClearII								
AscitesClearII	Internal Signs							
BloodyImage: set of the set of		Clear						
OedemaIn tissuesImage: Constraint of the second seco								
HeartPale/anaemicImage: sector of the	Oedema							
GranulomasImage: second se								
DeformedImage: state of the stat								
LiverPetechial haem </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Gross haemImageImageImageImageImageImageEnlargedImageImageImageImageImageImageImageColour number(s)ImageImageImageImageImageImageImageGranulomasImageImageImageImageImageImageImagePyloric caecaPetechial haemImageImageImageImageImageImageTubules mauveImageImageImageImageImageImageImageSpleenEnlargedImageImageImageImageImageImageGutNo food presentImageImageImageImageImageImageMyellow pseudo-faecesImageImageImageImageImageImageImageBody wallHaemorrhagingImageImageImageImageImageImageSwim bladderHaemorrhagingImageImageImageImageImageImageGranularImageImageImageImageImageImageImageImageGranularImageImageImageImageImageImageImageImageGeneralParasites presentImage </td <td>Liver</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Liver							
Tissue breakdownImageImageImageImageImageColour number(s)ImageImageImageImageImageImageImageGranulomasImageImageImageImageImageImageImageImageLesionsImageImageImageImageImageImageImageImageImagePyloric caecaPetechial haemImageImageImageImageImageImageImageImageSpleenEnlargedImageImageImageImageImageImageImageImageImageGranulomasImageImageImageImageImageImageImageImageImageImageGutNo food presentImage								
EnlargedImage: second seco								
Colour number(s)Image: second sec								
GranulomasImage: space of the sp								
LesionsImage: second secon								
Pyloric caecaPetechial haemImage: Constraint of the system of the								
Tubules mauveImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemSpleenEnlargedImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemGutNo food presentImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemGutNo food presentImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemGutNo food presentImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemGutNo food presentImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemGutNo food presentImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemGutNo food presentImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemBody wallHaemorrhagingImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemSwim bladderHaemorrhagingImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemGranularImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemImage: Constraint of the systemG	Pyloric caeca							
Lack of fatImageImageImageImageImageImageSpleenEnlargedImageImageImageImageImageImageImageGranulomasImageImageImageImageImageImageImageImageGutNo food presentImageImageImageImageImageImageImageYellow pseudo-faecesImageImageImageImageImageImageImageInternal haemImageImageImageImageImageImageImageBody wallHaemorrhagingImageImageImageImageImageImageSwim bladderHaemorrhagingImageImageImageImageImageImageFluid filledImageImageImageImageImageImageImageGranularImageImageImageImageImageImageImageLiquefiedImageImageImageImageImageImageImageGeneralParasites presentImageImageImageImageImageImageImageSubsci ImageImageImageImageImageImageImageImageImageSwim bladderHaemorrhagingImageImageImageImageImageImageImageGranularImageImageImageImageImageImageImageImageImage <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
SpleenEnlargedImageImageImageImageImageGranulomasImageImageImageImageImageImageImageGutNo food presentImageImageImageImageImageImageImageYellow pseudo-faecesImageImageImageImageImageImageImageImageExternal haemImageImageImageImageImageImageImageImageBody wallHaemorrhagingImageImageImageImageImageImageImageSwim bladderHaemorrhagingImageImageImageImageImageImageImageFluid filledImageImageImageImageImageImageImageImageKidneySwollenImageImageImageImageImageImageImageImageGranularImageImageImageImageImageImageImageImageImageLiquefiedImageImageImageImageImageImageImageImageImageImageGeneralParasites presentImageImageImageImageImageImageImageImageImageGranularImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageImageI								
GranulomasImage: sector of the se	Spleen							
GutNo food presentImage: constraint of the systemImage: constraint of the system <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Yellow pseudo-faecesImage: constraint of the sector of the se	Gut							
External haemImage: second								
Internal haemImage: second								
Body wallHaemorrhagingImage: state of the state o								
Swim bladderHaemorrhagingImage: state of the stat	Body wall							
Fluid filled Image: Constraint of the second se	Swim bladder							
Kidney Swollen Image: Constraint of the system								
Grey Image: Constraint of the second secon	Kidnov							
Granular Image: Constraint of the system Image: Constraintof the system Image: Constraint	Nulley							
Liquefied Image: Constraint of the second								
General Parasites present								
	Comorol							
Lanaemia de la companya de	General							
		Anaemia						

2018-0289

		Issued by. I Th					. 12/09/201
Case Number:	2018-0289		Site No:	FS0745		Insp:	AJW
Date of Visit	11/09/2018		No of m	ovements/s	upp./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 including third country	0	9	18	26	
	Number of sup		0		10	14	
Movements off	Frequency of n		0	3	6	10	1(
	Number of des		0		6	10	
Exposure via water		Site contacts	0	1-5	6-10		
Water contacts with other	Farm is protect disinfection or I	ed (secure water supply through	0				
farms (holding species susceptible to same diseases)	Farm is on-line	or in a coastal zone with category I	1		4		<u> </u>
01368363)	-	n or within 1 tidal excursion or in a coastal zone with category III	· ·	2	4		
		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	1			(
the rules of the directive	Processing own	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent state	from zone or compartment of	4				
	Processing fish	from Category III farm	8				
	Processing fish	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				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0]			
	Feeding unpas	teurised feed	5				
Biosecurity		Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		1
	Sites sharing s	taff and equipment	0	1	2		1
Disinfection of equipment	Yes		0				
between sites, use of footbaths etc	No		1				
CoGP/Regulator				-			
Practices in accordance	Yes		0				(
with regulator or industry code of practice	No		3				
Platform access to cages	Yes		0				(
	No		2				
					Total Rank		21 MEDIUM

FHI 059, Version 11	Issued by:	Issued by: FHI				
Case No: 2018-028	9	Site No: FS	0745			
Sea Lice Inspection (Seawater S 1. Has the site experienced sea lic	ites Only) e problems in the previous 4 years?		Y			
2. Is the CoGP Farm Management	Area (or equivalent) fallowed synchro	onously on a single year o	class basis?			
azamethiphos and emamectin ben can these be deployed in a reason	irm management agreement or statem	iological and/or mechanio	cal control measures, and			
	able for inspection? (Legal SSI, CoGP	Annex 6)	Y			
	e required standard specified in the S		SSI, CoGP Annex 6) Y			
7. Are sea lice (<i>L. salmonis</i>) record records are inspected? (CoGP An	d levels below the suggested criteria fon nex 6)	or treatment in the CoGP	during the period that N			
8. Have average adult female sea records are inspected?	lice (<i>L. salmonis</i>) numbers per fish be	en at a level of 3 or abov	e during the period that			
If yes, have these been reported to	the Fish Health Inspectorate? If no, F	HI see comment.				
9. Is C. elongatus infestation at a l	evel which is considered to cause sigr	nificant welfare problems?	? (CoGP 4.3.81, 5.3.50) N			
	een administered or other actions take where <i>C. elongatus</i> is considered to h					
11. Has any other action been take	en (where applicable)?		Y			
12. Have therapeutic treatments of	the actions taken had a significant im	pact upon the lice levels	recorded? Y			
	ed, carried out in cooperation betweer or the site, where fewer populations or		d without treatment for Y			
	ce management procedure with waypon a sea lice infestation?	pints describing set action	ns to deal with recognised Y			
16. Does the stock on site appear reasons.	satisfactory in relation to sea lice level	and sea lice count data?	If no please detail Y			
Containment Inspection						
1. Has the site experienced equipr	nent damage due to predators in the c	urrent or previous produc	tion cycles? N			
2. Are measures in place to mitigation	te against the predation experienced o	on site? (Detail below)	Y			
top nets, seal blinds in the base	e of nets and tensioned nets. ADD o	on site but not currently	v used unless required.			
If other, detail below:						
3. Have escape incidents or event	s been experienced on or in the vicinit	ty of the site since the las	t FHI inspection?			
If Yes proceed with questions 4 – 9	·	,				
4. Have these been reported to Sc						
5. Have these been reported to loc	al DSFB forthwith (where they exist)?	(CoGP - 4.4.37, 5.4.17)				
	SSPO and local fisheries trusts forth		CoGP – 4.4.37, 5.4.17)			
7. Were methods (if any) used to r	ecover escapees? If yes give detail					
8. If gill nets were deployed was th Ministers? (Legal, CoGP – 4.4.38,	is action agreed with local wild fish inte 5.4.18)	erests and was permissic	n given by Scottish			
9. What action was taken to preven	nt and minimise the risk of further esca	apes? (Not covered in co	de but could			
be considered under satisfacto	,					
10. Is the site inspected as satisfact	ctory with regards to containment? If n	o, please detail reason(s)	Ý			

FHI 059, Version 11	Issued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0289 Site	• No: FS0745	
Date of Visit: 11/09/2018	Inspector: AJW	
Point of Compliance		
1. Is the farm under inspection located withir	n a farm management area?	Y
If N, no further questions require completion	•	
Points of Compliance for Both Farm Mana	agement Agreements and Statements	3
 2. Has a current farm management agreement 3. Is the current FMAg/S available for inspect 4. Does the FMAg/S identify the relevant farm 5. Does the FMAg/S identify the fish farm sit 6. Does the FMAg/S identify the date of communication 	ction? m management area? æ(s) to which it applies?	Y Y Y
7. Does the FMAg/S identify the date of revie	ew?	Y
Arrangements for Fish Health Manageme	nt	
8. Does the FMAg/S identify the minimum he farm?	ealth standards for the stocks to be intro	duced to the area or Y
9. Does the FMAg/S identify the vaccination 10. Does the FMAg/S identify the species of 11. Does the FMAg/S identify the maximum individual farm?	fish which may be stocked into the area	a or farm? Y
12. Does the FMAg/S identify the arrangeme fish farm in the area or the individual farm?	ents for the storage and disposal of any	dead fish from any
Arrangements for The Management of Se	a Lice	
13. Does the FMAg/S identify arrangements	for the sharing of data on sea lice numb	pers and treatments? Y
14. Does the FMAg/S identify the availability of statement?	and the use of medicines on farms cove	e treatments for sea Y
15. Does the FMAg/S identify any requireme lice on farms in the area or individual farms?		
16. Does the FMAg/S identify the circumstar used on farms in the area or individual farms	-	
17. Does the FMAg/S identify the arrangement		ns within the area?
Live Fich Managements		
Live Fish Movements		
18. Does the FMAg/S identify the circumstar area or farm?	ices when live fish may be introduced o	
19. Does the FMAg/S identify the arrangeme or individual farms?	ents for the movement of live fish on and	d off sites in the area Y

Harvesting

20. Does the FMAg/S identify acceptable harvest practices on farms in the area or individual farms?	Y
Fallowing	
21. Does the FMAg/S identify the dates by which the area or individual farm will be fallow and the earliest date when a farm or area may be restocked?	Y
22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement?	Y
23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?	Y
Point of Compliance for Farm Management Agreements Only	
24. Does the farm management agreement include arrangements for persons to become, or cease to be, parties to the agreement?	N/A
Management and operation	
25. Is the fish farm being managed and operated in accordance with the agreement or statement?	Y

Site No: FS0745

Case No: 2018-0289

Nature of non-compliance:

Action taken (FHI):

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

Issued by: FHI

FS0745 Date of visit: Case No: 2018-0289 Site No: 11/09/2018 Average Start date: End date: (if Size of Species: Yearclass: Timescale Mortality rate Explained/ If explained, select reason(s): weight of applicable) fish: recorded(%): unexplained: affected population: 02/09/18 08/09/2018 ≥750g 1.5 SAL 2017 S0 Weekly 3.08 Explained Complex gill issues Click to sele (ensure in co

If unexplained, select observations:			Additional information (e.g. action taken by company):	Action taken by FHI (include case no where applicable):	
ct reason(s) orrect cell)	rrect cell)		Vet has been on site taking samples. Complex gill issues. Vets to visit again this week. Morts appear to be reducing. Appetite has improved.		
	Anorexic Base of fins H Bloody ascite Body wall - H Clear ascites Dark body Distended ab Enophthalmic Exophthalmic Eyes - Catara Eyes - haemo Flared opercu Flashing General Anae	es aemorrhagi			

Case No:	2018-0289			Date of visit:	11/09/2018]		
Site No:	FS0745]		Inspector:	AJW]		
Results Summary	Freq.			Da	te of Notifica	tion		
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
MG ISA	0/1	17/09/2018	AJW	19/09/2018	JET	04/10/2018	AJW	WJM
MGPara ther	5/5	17/09/2018	AJW	19/09/2018	JET	04/10/2018	AJW	WJM
MG Sal Pox	5/5	17/09/2018	AJW	19/09/2018	JET	04/10/2018	AJW	WJM
MG SAV	0/1	17/09/2018	AJW	19/09/2018	JET	04/10/2018	AJW	WJM
MG VHS	0/1	17/09/2018	AJW	19/09/2018	JET	04/10/2018	AJW	WJM
MG AGD	5/5	17/09/2018	AJW	19/09/2018	JET	04/10/2018	AJW	WJM
MG IHN	0/1	17/09/2018	AJW	19/09/2018	JET	04/10/2018	AJW	WJM
MG IPN	1/1	17/09/2018	AJW	19/09/2018	JET	04/10/2018	AJW	WJM
MGPIS-CH-SAL	5/5	28/09/2018	AJW	02/10/2018	AJW	04/10/2018	AJW	WJM
MGSYNG-SAL	5/5	28/09/2018	AJW	02/10/2018	AJW	04/10/2018	AJW	WJM
MGBRAN-CYS	5/5	28/09/2018	AJW	02/10/2018	AJW	04/10/2018	AJW	WJM
AMGD -Hist	5/5	02/10/2018	AJW	02/10/2018	AJW	04/10/2018	AJW	WJM
CGDH	5/5	02/10/2018	AJW	02/10/2018	AJW	04/10/2018	AJW	WJM
GPAT	5/5	02/10/2018	AJW	02/10/2018	AJW	04/10/2018	AJW	WJM
LPAT	4/5	02/10/2018	AJW	02/10/2018	AJW	04/10/2018	AJW	WJM
EPIT	5/5	02/10/2018	AJW	02/10/2018	AJW	04/10/2018	AJW	WJM
				_				
Report Summary								
Case Type	Date	Insp	2 nd Insp					
ECI, CNI, SLI, VMD	20/09/2018	AJW	JET					
Diag	04/10/2018	AJW	WJM					

marine scotland science



Scottish Sea Farms Ltd Laurel House Laurelhill Business Park Polmaise Road Stirling FK7 9JQ

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOFB0125SITE NOFS0745INSPECTORAmanda Walker

DATE OF VISIT11SITE NAMELisCASE NO20

11/09/2018 Lismore North 20180289

Section 1: Summary

During a routine inspection records showed raise mortality levels at Lismore North. Five fish were removed for diagnostic examination.

Histopathology examination revealed marked complex gill pathology which included proliferative gill hyperplasia, presence of amoebic cells suggestive of amoebic gill disease (AGD), epitheliocystis, and vascular damage (potentially associated with treatment effects or water borne insult). Mild hepatic necrosis was also noted

Due to the gill health issues reported on site, samples were screened for salmon gill poxvirus, *Neoparamoeba perurans* (causative agent of AGD) and *Paranucleospora theridion* by QPCR. Sample tested positive for all three pathogens.

Because high numbers of epitheliocystis were observed by histopathology examination, samples were screened for *Candidatus* Branchiomonas cysticola, *Candidatus* Syngnamydia salmonis and *Candidatus* Piscichlamydia salmonis by QPCR. Samples tested positive for all three pathogens.

Sample tested positive by QPCR for infectious pancreatic necrosis virus (IPNV). However histopathology results were not consistent with IPN disease.

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

Lismore North was visited by the fish health inspectorate for a routine EC inspection. During the inspection it was noted that elevated mortality were recorded at the site and were currently 3.08% for the site for the week. In addition the site representative indicated that feeding levels had reduced. A veterinarian had been on site and taken samples indicating the presence of complex gill issues and heart an skeletal muscle inflammation. On inspection of the site moribund fish were observed in the cages, particularly in cage 14. Five were removed for diagnostic examination. These fish displayed pale gills with white patches and no food present in the gut.

Samples

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

Fish number	Pool number	Facility number	Species	Stage	Origin
1-5	1	14	Atlantic salmon	1.5 kg	Loch Damph

<u>Results</u>

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

No significant bacteria were isolated

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

Candidatus Branchiomonas cysticola

Fish Number	Endogenous control Cp value		Cp Values		Reported Result (PCR)
F1	22.21	22.60	22.63	22.65	POSITIVE
F2	21.83	20.91	20.91	20.98	POSITIVE
F3	22.04	21.80	21.73	21.78	POSITIVE
F4	20.48	19.35	19.85	20.35	POSITIVE
F5	20.96	20.62	21.06	20.25	POSITIVE

Candidatus Piscichlamydia slamonis

Fish Number	Endogenous control Cp value		Cp Values		Reported Result (PCR)
F1	22.21	36.32	35.88	36.38	POSITIVE
F2	21.83	34.42	34.19	34.75	POSITIVE
F3	22.04	35.88	35.76	36.20	POSITIVE
F4	20.48	33.51	33.61	33.13	POSITIVE
F5	20.96	34.24	34.82	34.32	POSITIVE

R09

Candidatus Syngnamydia salmonis

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	22.21	27.26	27.27	27.29	POSITIVE
F2	21.83	26.17	25.97	26.15	POSITIVE
F3	22.04	26.88	26.89	26.82	POSITIVE
F4	20.48	28.31	28.25	28.49	POSITIVE
F5	20.96	27.93	27.58	27.80	POSITIVE

Virology:

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

Salmon gill poxvirus (SGPV)

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	22.52	32.28	32.04	32.09	POSITIVE
F2	21.95	25.45	25.51	25.51	POSITIVE
F3	22.37	29.58	29.51	29.54	POSITIVE
F4	21.56	26.26	26.11	26.15	POSITIVE
F5	21.66	30.77	30.96	30.99	POSITIVE

Infectious pancreatic necrosis virus (IPNV)

Pool Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
P1	16.97	>40	37.48	38.41	POSITIVE

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

Parasitology:

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

Fish Number	Endogenous control Cp value	Cp Values		Reported Result (PCR)	
F1	22.52	29.02	29.38	29.36	POSITIVE
F2	21.95	27.88	27.81	27.92	POSITIVE
F3	22.37	28.35	28.35	28.49	POSITIVE
F4	21.56	30.05	30.27	30.20	POSITIVE
F5	21.66	29.86	29.80	29.64	POSITIVE

Neoparamoeba perurans (AGD)

R09

Fish Number	Endogenous control Cp value	Cp Values			Reported Result (PCR)
F1	22.52	30.59	30.56	30.62	POSITIVE
F2	21.95	24.88	24.85	24.90	POSITIVE
F3	22.37	24.69	24.69	24.69	POSITIVE
F4	21.56	25.20	25.17	25.18	POSITIVE
F5	21.66	23.91	24.18	24.23	POSITIVE

Paranucleospora theridion

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

The following histopathological changes were observed:

<u>Gill:</u> Multifocal interlamellar hyperplasia with spaces (lacunae) occasionally filled with cell debris and lamellar fusion, diffuse adherence of secondary lamellae (synechiae) and epithelial spongiosis noted in all fish, marked lamellar thrombosis and lamellar necrosis with karryiorhectic mainly noted in F3, F4 and F5 and presence of sparse lamellar epithelial apoptotic cells, generalized irregular lamellar epithelial surface, moderate displacement of chloride cells and hypertrophy, high numbers of basophilic epithelial inclusions (likely epitheliocystis), several amoebic cells resembling *Neoparamoeba perurans*, several scattered aneurysmal dilation/telangiectasia and congested secondary lamellae.

Skin & Muscle: Within normal range.

Heart: Occasional small foci of leucocyte infiltration noted in F5.

Gut and pyloric caeca: Within normal range.

Pancreas: Within normal range.

Liver: Mild multifocal hepatic necrosis (F1-F4) and mild hepatocyte vacuolation (F1)

Kidney: Few renal tubules with hyaline deposits on the lining epithelium (F2 & F5).

Spleen: Mild splenic necrosis with presence of sparse giant cells.

Signed:

R09



Date: 04/10/2018

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





FHI 059, Version 11	ls	sued by: FHI		Date of issue: 12/09/2017		
Case No: 2018-0291				Date of visit: 12/09/2018		
Time spent on site: 5	hours		Main Inspector	r: AJW		
Site No: FS1240 Business No: FB0544	Site Name: Business Name:	Highland Scotland				
Case Types: 1 STI	23	4	5	6		
Water Temp (°C): n/a	Thermometer No:			FHI 045 completed		
Observations:	Region: HI	Water type:	: В	CoGP MA:		
Dead/weak/abnormally behaving Clinical signs of disease observe Gross pathology observed? Diagnostic samples taken?		N If yes, see a	additional inform	nation/clinical score sheet. nation/clinical score sheet. nation/clinical score sheet.		
UNI/REG only - if unable to carry out intended visit detail reason below:						

Additional Case Information:

Sites visited with a view to starting statutory sampling for bonamia. 150 shells required. Only found 92 so no samples taken. (Rahoy shellfish). Accompanied by and and a statutory samples taken.

Low tide 14.39. Barr Beach. Were oysters further up the loch near Carna island but were removed by collectors in the spring.

Location 1; NM650545 - In front of house - visited before low tide and 3 native oysters found.

Location 3; NM641561; Taken in boat to site at Rahoy just after low tide. 26 native oysters found. May have been place here rather than a natural bed.

Location 4; NM646548 taken by boat but accessible from road. Visited after low tide and 42 oysters found.

Case No:	2018-0291			Date of visit:	12/09/2018			
Site No:	FS1240	l		Inspector:	AJW	I		
Results Summary	Freq.			Dat	te of Notifica	tion		
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
Report Summary								
Case Type	Date	Insp	2 nd Insp					
STI - no report	24/09/2018	AJW	WJM					

FHI 059, Version 11	ŀ	ssued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0308			Date of visit: 24/07/2018
Time spent on site:	30 min	Main Inspec	tor: SAE
Site No: SS0841 Business No: SB0524	Site Name: Business Name:	Sound of Harris (Shellfish) Namara Aquaculture Ltd	
Case Types: 1 REG	2 3	4 5	6
Water Temp (°C):	Thermometer No:		FHI 045 completed
Observations:	Region: WI	Water type: S	CoGP MA:
Dead/weak/abnormally behavin Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?	• •	If yes, see additional info	ormation/clinical score sheet. ormation/clinical score sheet. ormation/clinical score sheet.
UNI/REG only - if unable to car	y out intended visit detail	reason below:	

Additional Case Information:

Surveillance frequency assessed over the phone on 13/7/18, no gear on site and no stock has been on the site since the last inspection. Considering using the site in the future but no concrete plans at the moment. Site and business details checked via email (confirmation received 8/8/2018).

Site to be inspected as part of the inspection of FS1260 on 24/07/2018.

FHI 059, Version 11			Issu	ied by: FHI			Date of issu	e: 12/09/2017
Case No:	2018-0308]	Site No:	SS0841]			
Date of Visit:		24/07/2018			Inspector(s):	SAE]
Registration/Author 1. Business/site deta 2. Changes made to	ails summary		ite representa	ative?			Y Y]
Site Details								
Total No facilities Species Age group No Fish	fallow	none	Facilities sto	ocked		No facilitie	s inspected	
Mean Fish Wt Next Fallow Date (S	ite)			Next Input Da	te (Site)			
Recent (last 4 wks) If yes, detail:	,	ems?			Any escapes	(since last	visit)?	N/A
Movement Records 1. Movement record 2. Date of last inspe 3. Are records comp 4. Are movement re 5. Are records comp 6. Are health certific Transport Records 1. Are any movement If yes, is there a sys	ls available fo ction: blete and corr cords availab blete and corr ates for introc this carried ou	ectly entered? le for dead fis ectly entered? ductions (outw t by (or on be	h and waste? vith GB) availa half) of the bu	able? usiness (not usi	- /		02/11/2017	N/A N/A N/A N/A
Mortality Records								
 Mortality records How are mortalitie If other detail: 								N/A
 3. Mortality records 4. Recent mortality (•	correctly ente	ered? none					N/A
5. Evidence of recert If yes, facility nos/no		••		/reason:				N/A
6. Any other peaks i If yes, detail:	n mortality du	ring period ch	necked?					N/A
 7. Have increased (If yes, detail action: 8. Have 'mortality ex 	. ,		•		optor on morte	lity events a	shoot	N/A
o. have monality ev	ents been le		: in no, aud ly	intruase and e	enter on mona	ity events s	sneet.	IN/A

Treatments and Medicines Records	
1. Recent treatments (last 4 wks)?	
If yes, detail:	
If other, detail:	
2. Medicines records available for inspection?	
3. Are records complete and correctly entered?	
4. Are fish in a withdrawal period?	
5. If yes, what treatment(s)?	
If other, detail:	
6. Are medicines stored appropriately?	
Biosecurity Records	
1. Biosecurity records available for inspection?	
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any <i>increased</i> (<i>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?	
If yes, detail (if not detailed under recent disease problems).	
Records checked between: 02/11/2017 - 24/7/18	

HI 059, Version 11	Issued by: FHI			Date	of issue: 12	2/09/20
Case Number:	2018-0308 Site No:	SS084	1			
Date of Visit	24/07/2018 Inspector:	SAE				
umber of Susceptil	ble species on site			-		
-	ies present = <u>LOW</u> risk					
	present, score for each pathogen		No	Yes		
	Susceptible to Bonamia ostrea (OED)		0	25		
	Susceptible to Marteilia refringens (OED, MED)		0	3		
	Susceptible to OsHV (CGI)		0	3	3	
Sites within a tidal e	xcursion	1	2-5	>6		
Site contacts	Number of sites holding susceptible species within a tidal					
	excursion	0	2	10	0	
			4.0			
ive shellfish moven		0	1-2	>3	10	
Novements on	Frequency of movements on from equivalent MS	0	5	10	10	
	Frequency of movements on from equivalent zone or					
	compartment including third country	0	10	20		
	Number of suppliers	0	5	10	5	
Movements off	Frequency of movements off within MSS Management Areas	0	1	2	0	
	Frequency of movements off outwith MSS Management					
	Areas	0	3	6	0	
		0	3 3	6 6	0 0	
	Areas		3 Secure (effluent			
oractices	Areas Number of destinations	0	3 Secure (effluent	6 Unsecure (no effluent		
Water contacts with	Areas Number of destinations Depuration of stock from own sites within MSS	0 None	3 Secure (effluent treatment)	6 Unsecure (no effluent treatment)	0	
Water contacts with	Areas Number of destinations Depuration of stock from own sites within MSS management area	0	3 Secure (effluent	6 Unsecure (no effluent		
Water contacts with	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within	0 None	3 Secure (effluent treatment) 1	6 Unsecure (no effluent treatment) 2	0	
Water contacts with	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area	0 None 0	3 Secure (effluent treatment)	6 Unsecure (no effluent treatment)	0	
Water contacts with	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within	0 None 0	3 Secure (effluent treatment) 1	6 Unsecure (no effluent treatment) 2	0	
vater contacts with depuration facilities	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management	0 None 0	3 Secure (effluent treatment) 1 2	6 Unsecure (no effluent treatment) 2 6	0 0 0	
Water contacts with depuration facilities	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites	0 None 0 0	3 Secure (effluent treatment) 1 2 4	6 Unsecure (no effluent treatment) 2 6 8	0 0 0	
vractices Water contacts with depuration facilities	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area	0 None 0 0 0	3 Secure (effluent treatment) 1 2 4 2 or 3	6 Unsecure (no effluent treatment) 2 6 8 8	0 0 0	
Water contacts with depuration facilities	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase	0 None 0 0 0 1	3 Secure (effluent treatment) 1 2 4 2 or 3 1 1	6 Unsecure (no effluent treatment) 2 6 8 ≥ 4 2 5	0 0 0 0	
Water contacts with depuration facilities Biosecurity Contacts with other	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase	0 None 0 0 0 1	3 Secure (effluent treatment) 1 2 4 4 2 or 3 1	6 Unsecure (no effluent treatment) 2 6 8 ≥ 4 2	0 0 0 0	
Water contacts with depuration facilities Biosecurity Contacts with other	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase	0 None 0 0 0 1 0 0	3 Secure (effluent treatment) 1 2 4 2 or 3 1 1	6 Unsecure (no effluent treatment) 2 6 8 ≥ 4 2 5	0 0 0 0	
depuration facilities Biosecurity Contacts with other	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase Sites sharing staff and equipment	0 None 0 0 0 1 0 0	3 Secure (effluent treatment) 1 2 4 2 or 3 1 1 1 Yes 0	6 Unsecure (no effluent treatment) 2 6 8 ≥ 4 2 5 No		
Water contacts with depuration facilities Biosecurity Contacts with other	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase Sites sharing staff and equipment	0 None 0 0 0 1 0 0	3 Secure (effluent treatment) 1 2 4 2 or 3 1 1 1 Yes	6 Unsecure (no effluent treatment) 2 6 8 ≥ 4 2 5 No		

Case No:	2018-0308			Date of visit:	24/07/2018			
Site No:	SS0841	1		Inspector:	SAE	I		
Results Summary	Freq.			Dat	te of Notificat	tion		
ŕ		Database	Insp		Insp	Writing	Insp	2 nd Insp
-								
Report Summary								
Case Type	Date	Insp	2 nd Insp					
REG	08/08/2018	SAE	ALW					

marine scotland science



Namara Aquaculture Ltd North Lamerick Berneray North Uist Western Isles HS6 5BQ

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOSB0524SITE NOSS0841INSPECTORSvenja Elwenn

Fish Health Inspector

DATE OF VISIT24/07/2018SITE NAMESound of Harris (Shellfish)CASE NO20180308

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

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

Signed:

Date: 08/08/2018

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

FHI 059, Version 11	Iss	ued by: FHI		Date of it	ssue: 12/09/2017
Case No: 2018-0309				Date of visit:	24/07/2018
Time spent on site:	hrs	2	Main Inspector	r: S /	AE
Site No: FS1260 Business No: FB0398	Site Name: Business Name:	Sound of Harris Loch Duart Ltd			
Case Types: 1 ECI	2 CNI 3 SLI	4 VMD	5	6	
Water Temp (°C): 12.1	Thermometer No:	T205		FHI 045 complet	ted
Observations:	Region: WI	Water type:	S	CoGP MA:	None
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	N If yes, see a	additional inforn	nation/clinical sco nation/clinical sco nation/clinical sco	ore sheet.
UNI/REG only - if unable to carry	out intended visit detail re	ason below:			

Additional Case Information:

FMS is outdated, new version is currently being updated and agreed. Site is not currently located in a CoGP Farm management area.

Sudden spike in Caligus in the last few weeks, Slice treatment planned for 7 August. Leps very low. No damage observed on fish on site. Fish were looking good and fish sampled for VMD appeared healthy.

All future harvests as dead haul via wellboat.

FHI 059, Version 11			Issued by: FHI			Date of issue	e: 12/09/2017
Case No:	2018-0309	Site N	o: FS1260	0			
Date of Visit:		24/07/2018		Inspector(s):	SAE		
Registration/Author 1. Business/site det 2. Changes made to	ails summary ch		esentative?			Y Y	
Site Details							
Total No facilities Species Age group No Fish	SAL V 2018 S1 m 558,185 3	VRS	ies stocked	10	No facilities	s inspected	20
Mean Fish Wt Next Fallow Date (S	Ŭ	nknown anuary 2020	Next Input D	ate (Site)	April 2020		
Recent (last 4 wks) If yes, detail:	_	-		N Any escapes		visit)?	N
Movement Record 1. Movement record 2. Date of last inspect 3. Are records comp 4. Are movement records comp 6. Are health certific	ls available for in oction: blete and correc cords available blete and correc	tly entered? for dead fish and v tly entered?				02/06/2015	Y N Y N/A
Transport Records	5						
1. Are any moveme If yes, is there a sys							Y Y
Mortality Records							
 Mortality records How are mortalitie If other detail: Mortality records 	es disposed of? Whiteshore Co	ockles		Other (detail))		Y
	·	Salmo	on 0.15% for the last	4 weeks for th	e whole site	, cleaner fish	1-3 fish per
 Recent mortality Evidence of received 	. ,		for the site				N
If yes, facility nos/no	o mortality per fa	acility/no stock per	facility/reason:				
6. Any other peaks i	Salmon slightly	• •	? on input due to trans	sfer and fungus	s but decreas	sing quickly to	Y Now
If yes, detail: 7. Have increased (numbers. unexplained) me	ortalities been repo	orted to vet or FHI?				N/A
If yes, detail action: 8. Have 'mortality ev	vents' been repo	orted to FHI? If no,	add MRT case and	enter on morta	ality events s	heet.	N/A

Treatments and Medicines Records	
1. Recent treatments (last 4 wks)?	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?	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	Y
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)?	Y
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	N
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	Y
If no, detail:	
Results of Surveillance	
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	Y
2. If yes, are results available for inspection?	Y
3. Any significant results?	N
If yes, detail (if not detailed under recent disease problems).	
Records checked between: 02/06/2015 - 24/7/18	

FHI 059, Version 11				Issued by: FHI		
Case no:	2018-0309	Site No:	FS1260	Date of visit/ Sampling:	24/07/2018	24/(
Priority samples:	VI	BA	PA	MG	HI	
Time sampling starts/ends:	12:00:00	13:00:00	Inspector:	SAE	VMD No.	15
Environmental conditions:	1 Windy	2 Sunny	3 Cloudy	4 Dry	5	
Summary samples	HIST	BA	MG VI	PA	Total Samp	les

Add Fish/Pools - click

Γ	Pool/Fish No												
	Fish nos	1	2	3	4	5	6	7	8	9	10	11	12
	Pool Group												
	Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL
	Average weight	250g	250g	250g	250g	250g	250g	250g	250g	250g	250g	250g	250g
	Sex	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Water Type	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
tock Details		න Gairloch	о Gairloch	o Gairloch	o) Gairloch	თ Gairloch	11 Ormsary Smolt Unit	81 Gairloch	81 Gairloch				

Date of issue: 12/09/2017

)7/201	8 Addition	nal Sam	ple Infor	mation:							
_	0	Total T	ests ass	igned	0	I					
13	14	15					 	 			
SAL	SAL	SAL									
250g		250g									
N/A	N/A	N/A									
SW	SW	SW									
	Gairloch	Gairloch									
18	18	18									

FHI 059, Version 11		Issued by: FHI				J 15500	: 12/09/201
Case Number:	2018-0309		Site No:	FS1260		Insp:	SAE
Date of Visit	24/07/2018		No of m	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out with GB) of susceptible		novements on from equivalent MS	0	5	10	14	
species		novements on from equivalent zone or including third country	0	9	18	26	
	Number of sup	· ·	0	5	10	14	
Movements off	Frequency of m	novements off	0	3	6	10	
	Number of dest		0	3	6	10	
Exposure via water		Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species	Farm is protect disinfection or l	ed (secure water supply through porehole)	0				
susceptible to same diseases)	Farm is on-line	or in a coastal zone with category I n or within 1 tidal excursion	1	2	4		
	farms upstream	or in a coastal zone with category III n or within 1 tidal excursion	1	3	6		
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		
On farm processing within the rules of the directive	No on farm pro	cessing	0				
	Processing own	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent state	from zone or compartment of us	4				
	_	from Category III farm	8				
	Processing fish	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 point	t for waste from other farms	5				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	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		
	Sites sharing s	taff and equipment	0	1	2		
Disinfection of equipment	Yes		0				
between sites, use of footbaths etc	No		1				
CoGP/Regulator							
Practices in accordance	Yes		0				
with regulator or industry code of practice	No		3				
Platform access to cages	Yes		0				
	No		2				
					Total		
					Rank		LOW

FHI 059, Version 11		Issued by: FHI		Date of is	sue: 12/09/2017
Case No: 2018-	0309		Site No:	FS1260	
Sea Lice Inspection (Seawate 1. Has the site experienced sea		revious 4 years?			N
2. Is the CoGP Farm Managem		-	on a single ve	ear class basis?	Y
 Does the site have access to azamethiphos and emamectin can these be deployed in a rea Is there a signed documente Management Area (or equivale 	o a range of licenced in- benzoate) as well as a sonable period of time? d farm management ag	feed and bath sea lice me ccess to suitable biologica	edications (inc Il and/or mech	luding deltamethrin, nanical control measures, an	d Y
5. Are sea lice count records a		(Legal SSL CoGP Annex	6)		Y
6. Do records adequately reflect				egal SSI, CoGP Annex 6)	Y
7. Are sea lice (<i>L. salmonis</i>) re records are inspected? (CoGP		uggested criteria for treatr	nent in the Co	GP during the period that	Y
8. Have average adult female s records are inspected?				bove during the period that	Ν
If yes, have these been reporte					N/A
9. Is C. elongatus infestation a	t a level which is consid	lered to cause significant	welfare proble	ems? (CoGP 4.3.81, 5.3.50)	Ν
10. Have therapeutic treatment suggested criteria for treatmen					N/A
11. Has any other action been	taken (where applicable	e)?			N/A
12. Have therapeutic treatment	s or the actions taken h	ad a significant impact up	on the lice lev	vels recorded?	N/A
13. Are treatments, where cond14. Is there a harvesting strategoean lice?			-		N/A N
15. Is there a site specific writte scenarios during the escalation			scribing set a	ctions to deal with recognise	d N
16. Does the stock on site appereasons.	ear satisfactory in relation	on to sea lice level and se	a lice count d	ata? If no please detail	Y
Containment Inspection					
1. Has the site experienced equ	uipment damage due to	predators in the current c	or previous pro	oduction cycles?	Ν
2. Are measures in place to mit					Y
A.D.D., M.M.L., Seal Blinds,	Tensioned Nets, Top	Nets			
If other, detail below:					
reinforced mort basket					
3. Have escape incidents or ev	vents been experienced	I on or in the vicinity of the	site since the	e last FHI inspection?	Ν
If Yes proceed with questions 4	· · ·	tion 10			
4. Have these been reported to	Scottish Ministers?				
5. Have these been reported to	local DSFB forthwith (where they exist)? (CoGP	- 4.4.37, 5.4	.17)	
6. Have these been reported to	the SSPO and local fis	sheries trusts forthwith (wh	ere they exist	:)? (CoGP – 4.4.37, 5.4.17)	
7. Were methods (if any) used	to recover escapees? I	f yes give detail			
8. If gill nets were deployed wa Ministers? (Legal, CoGP – 4.4.		h local wild fish interests a	nd was permi	ission given by Scottish	
9. What action was taken to pro	event and minimise the	risk of further escapes? (I	Not covered in	n code but could	
be considered under satisfa	ctory measures of th	e Act)			
10. Is the site inspected as sati	sfactory with regards to	containment? If no, pleas	e detail reaso	on(s)	Y

FHI 059, Version 11	Issued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0309 S	tite No: FS1260	
Date of Visit: 24/07/2018	Inspector: SAE	
Point of Compliance		
1. Is the farm under inspection located wit If N, no further questions require completi	-	Υ
Points of Compliance for Both Farm Ma	anagement Agreements and Statements	
3. Is the current FMAg/S available for insp4. Does the FMAg/S identify the relevant f5. Does the FMAg/S identify the fish farm	arm management area? site(s) to which it applies? ommencement of the agreement or stateme	N Y Y
Arrangements for Fish Health Manager	nent	
farm? 9. Does the FMAg/S identify the vaccination 10. Does the FMAg/S identify the species 11. Does the FMAg/S identify the maximulindividual farm? 12. Does the FMAg/S identify the arrange fish farm in the area or the individual farm Arrangements for The Management of 13. Does the FMAg/S identify arrangement 14. Does the FMAg/S identify the availability of statement? 15. Does the FMAg/S identify any requirer lice on farms in the area or individual farm	Sea Lice hts for the sharing of data on sea lice number lity and the use of medicines on farms cover ments for the sensitivity testing of available hs? tances under which biological controls and	or farm? or farm? in the area or the dead fish from any ers and treatments? ered by the agreement treatments for sea Y Y
17. Does the FMAg/S identify the arrange	ments for synchronous treatments on farms	s within the area? Y
Live Fish Movements		
area or farm?	tances when live fish may be introduced or ments for the movement of live fish on and	

Harvesting

20. Does the FMAg/S identify acceptable harvest practices on farms in the area or individual farms?	Y
Fallowing	
21. Does the FMAg/S identify the dates by which the area or individual farm will be fallow and the earliest date when a farm or area may be restocked?	Ν
22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement?	Ν
23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?	Ν
Point of Compliance for Farm Management Agreements Only	
24. Does the farm management agreement include arrangements for persons to become, or cease to be, parties to the agreement?	N/A
Management and operation	
25. Is the fish farm being managed and operated in accordance with the agreement or statement?	Y
26. What is the version no/date of issue of the FMAg/S? Version 4, April 2016	

Site No: FS1260

Case No: 2018-0309

Nature of non-compliance:

Action taken (FHI):

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

Case No:	2018-0309			Date of visit:	24/07/2018			
Site No:	FS1260	1		Inspector:	SAE	1		
						4		
Results Summary	Freq.				te of Notifica			
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
Report Summary								
Case Type	Date	Insp	2 nd Insp					
ECI, CNI, SLI, VMD	08/08/2018	SAE	ALW					
case closed	26/09/2018	SAE	WJM					
	+							
	1							
			1					

marine scotland science



Loch Duart Ltd Badcall Salmon House Scourie, Lairg Sutherland IV27 4TH

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOFB0398SITE NOFS1260INSPECTORSvenja Elwenn

DATE OF VISIT24/07/2018SITE NAMESound of HarrisCASE NO20180309

Case completion report

Fish Health Inspector

Recommendations in relation to the above case were made for implementation by 8 September 2018. Following submission of the required documentation, evidence has now been provided to Marine Scotland to demonstrate that the recommendations have been implemented.

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

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

Signed:

Date: 26/09/2018

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

marine scotland science



Loch Duart Ltd Badcall Salmon House Scourie, Lairg Sutherland IV27 4TH

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOFB0398SITE NOFS1260INSPECTORSvenja Elwenn

DATE OF VISIT24/07/2018SITE NAMESound of HarrisCASE NO20180309

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

The surveillance frequency category of the site was assessed as 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 found to be inadequately maintained.

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

Mortality records were inspected and found to be adequately maintained.

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

R25

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 inadequately maintained.

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

- FS numbers must be recorded in the source/destination section of the movement record book, to allow for better traceability of stocks. It was discussed with staff that this would be recorded in future. No further action is required.
- The biosecurity measures plan had no documentation available regarding the measures in place to maintain the physical containment of aquaculture animals on site.

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

Inspection under the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2013

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 containment and escapes.

On this occasion the following recommendations were issued in relation to section 3 regarding parasites (sea lice):

- There was no harvesting strategy for the site, where fewer populations or part populations are held without treatment for sea lice.
- There was no site specific written lice management procedure with waypoints describing set actions to deal with recognised scenarios during the escalation of a sea lice infestation.

An <u>outdated</u> farm management statement was inspected and found to be inadequately maintained. Please see the attached annex detailing the points that must be addressed. Farm management statements must be current and reviewed as a minimum every 2 years.

Please ensure that these points have been addressed by 08 September 2018. Records or documentation demonstrating that these points have been addressed should be sent to the Fish Health Inspectorate (contact details below). The site may be subject to further inspection or enforcement action should the appropriate action regarding the above points not be taken within the time period stipulated.

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

Signed:

R25

Date: 08/08/2018

Fish Health Inspector

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

Annex - The Aquaculture and Fisheries (Scotland) Act 2007

Section 4A of the Aquaculture and Fisheries (Scotland) Act 2007, as amended, introduces the requirement for a person carrying out the business of fish farming within a farm management area⁽¹⁾ to;

(a) be party to a farm management agreement, or prepare and maintain a farm management statement, in relation to the fish farm, and

(b) ensure that the fish farm is managed and operated in accordance with the agreement or statement.

To ensure compliance with the Aquaculture and Fisheries (Scotland) Act 2007, as amended, the following points must be addressed in the farm management agreement/statement

Fallowing of the farms after harvesting
 This must include the dates for fallowing of the area, the earliest date of restocking,
 identify whether one or more year classes may be stocked onto sites covered by the
 agreement & identify whether broodstock or potential broodstock are to be kept on any
 site covered by the agreement.

⁽¹⁾ Farm management area means an area specified as such in the Code of Good Practice for Scottish Finfish Aquaculture

⁽²⁾ Parasites as defined in The Aquaculture and Fisheries (Scotland) Act 2007 which means *Caligus elongatus* and *Lepeophtherius* salmonis

FHI 059, Version 11	lss	sued by: FHI		Date of i	ssue: 12/09/2017
Case No: 2018-0310				Date of visit:	25/07/2018
Time spent on site: 4	hrs		Main Inspector	r: S/	AE
Site No: FS0340 Business No: FB0169	Site Name: Business Name:	Kilerivagh / Pe The Scottish S	tersport Salmon Company	1	
Case Types: 1 ECI 2	2 CNI 3 SLI	4 VMD	5	6	
Water Temp (°C): 13.4	Thermometer No:	T205		FHI 045 comple	ted
Observations:	Region: WI	Water type	e: S	CoGP MA:	W-16
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?		N If yes, see	e additional inform	nation/clinical sco nation/clinical sco nation/clinical sco	ore sheet.
UNI/REG only - if unable to carry	out intended visit detail re	eason below:			

FHI 059, Version 11 Additional Case Information:

Slice being fed at the time of the visit. Caligus slightly increased in June and July.

Site does not have authorisation to hold cleanerfish due to authorisation for trout at the site. Salmon will be moved to Greanamul after the first grade to ensure full range of options to combat sea lice are in place at critical time.

Wild lumpfish observed in one cage. Water dark and fish deeper in the water so difficult to see. Fish sampled for VMD appeared healthy.

FHI 059, Version 11			lssu	ed by: FHI			Date of issue	e: 12/09/2017
Case No:	2018-0310]	Site No:	FS0340]			
Date of Visit:		25/07/2018]		Inspector(s):	SAE		
Registration/Autho 1. Business/site deta 2. Changes made to	ails summary		- ite representa	ative?			Y Y	
Site Details								
Total No facilities Species Age group No Fish Mean Fish Wt Next Fallow Date (S	SAL 2018 S1 830,948 240g	12 	Facilities sto	cked	12	No faciliti	es inspected	12
Next Fallow Date (S	ne)	August 2018				none plai	Ineu	
Recent (last 4 wks) If yes, detail:	disease prob	lems?		N	Any escapes	s (since last	t visit)?	Ν
Movement Records 1. Movement records 2. Date of last inspe 3. Are records comp 4. Are movement re 5. Are records comp 6. Are health certific	s available fo ction: olete and corr cords availab olete and corr	ectly entered? ble for dead fishectly entered?	h and waste?				29/08/2017	Y Y Y N/A
Transport Records	;							
1. Are any movement If yes, is there a sys								Y Y
Mortality Records								
1. Mortality records a 2. How are mortalitie If other detail:	es disposed o Whiteshore	of? cockles			Other (detail))		Y
3. Mortality records	complete and	I correctly ente	Figure 1	4% to 0.89% p	er week in the	last four w	veeks for the w	Y hole site
4. Recent mortality (last 4 wks):		between 0.0	470 to 0.0070 p				
5. Evidence of recer								Y
If yes, facility nos/no Slightly increased in		-			2,500 and 3,00	00 per wee	k for the site re	espectively.
6. Any other peaks i		• •						Y
If yes, detail:				ut very low nur	mbers in gene	ral.		N/A
7. Have increased (II If yes, detail action:	inexplained)	mortaillies bee						IN/A
8. Have 'mortality ev	ents' been re	ported to FHI	? If no, add M	IRT case and e	enter on morta	ality events	sheet.	N/A

Treatments and Medicines Records	
1. Recent treatments (last 4 wks)?	Y
If yes, detail: T.M.S., Slice	
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?	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	Y
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any	
increased (unexplained) mortality at the site been included?	Y
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?	Y
	\sim
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	Y
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of	Y
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site? If no, detail:	ř
Results of Surveillance	
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	Y
2. If yes, are results available for inspection?	Y
3. Any significant results?	N
If yes, detail (if not detailed under recent disease problems).	
Records checked between: 29/08/2017 - 25/7/18	

FHI 059, Version 11				Issued by: FHI		
Case no:	2018-0310	Site No:	FS0340	Date of visit/ Sampling:	25/07/2018	25/(
Priority samples:	VI	BA	PA	MG	н	
Time sampling starts/ends:	11:30:00	12:30:00	Inspector:	SAE	VMD No.	15
Environmental conditions	: 1 Indoors	2 Cloudy	3 Sunny	4 Dry	5 Calm	
Summary samples	HIST	BA	MG VI	PA	Total Sample	s

Add Fish/Pools - click

	Pool/Fish No												
	Fish nos	1	2	3	4	5	6	7	8	9	10	11	12
	Pool Group												
	Species	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL	SAL
	Average weight	240g	240g	240g	240g	240g	240g	240g	240g	240g	240g	240g	240g
	Sex	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Water Type	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
ock Details	Stock Origin	Loch Langevat	Loch Humevat	Geocrab Hatchery	Geocrab Hatchery								
び	Facility No	3 (N)	6 (N)	6 (N)	6 (N)	6 (N)	6 (N)	4 (S)	4 (S)				

07/2018 Additional Sample Information:													
0	1	Total Te	ests ass	igned	0								
				5	-	•							
13	14	15											
SAL	SAL	SAL											
240g	240g	240g											
N/A		N/A											
SW	SW	SW											
≥	≥	∑											
he	l a	she											
atc	atc	atc											
L I		H											
rat	rat	rat											
Geocrab Hatchery	Geocrab Hatchery	Geocrab Hatchery											
4 (S)	4 (S)	4 (S)											

FHI 059, Version 11		Issued by: FHI			Date	JIISSUE	12/09/201
Case Number:	2018-0310		Site No:	FS0340		Insp:	SAE
Date of Visit	25/07/2018		No of m	ovements/s	supp./dest.		Score
Live fish movements			0	1-5	6-10	>10	
Movements on (from out	Frequency of n	novements on from equivalent MS	0	5	10	14	0
with GB) of susceptible species		novements on from equivalent zone or including third country	0	9	18	26	0
	Number of sup		0	5	10	14	0
Movements off	Frequency of n	povements 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 I	ed (secure water supply through	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		2
	Farm is on-line	or in a coastal zone with category III	1	3	6		
		or in a coastal zone with category V on 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				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	Sites operating	from single shorebase	0	1	2		1
	Sites sharing s	taff and equipment	0	1	2		1
Disinfection of equipment	Yes		0				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		16 MEDIUM
					Rank		MEDIUM

FHI 059, Version 11	Issue	d by: FHI	Date of is	sue: 12/09/2017
Case No: 2018-031	0	Site No:	FS0340	
Sea Lice Inspection (Seawater Si 1. Has the site experienced sea lice		rs?		N
2. Is the CoGP Farm Management			ear class basis?	Y
 3. Does the site have access to a razamethiphos and emamectin benzican these be deployed in a reasona 4. Is there a signed documented fa Management Area (or equivalent)? 	ange of licenced in-feed and bath zoate) as well as access to suita able period of time? rm management agreement or st	n sea lice medications (ind ble biological and/or med	cluding deltamethrin, hanical control measures, an	d Y
5. Are sea lice count records availa		CoGP Annex 6)		Y
6. Do records adequately reflect the	· · · •		egal SSI, CoGP Annex 6)	Y
7. Are sea lice (<i>L. salmonis</i>) record records are inspected? (CoGP And	l levels below the suggested crite		-	Υ
8. Have average adult female sea I records are inspected?		sh been at a level of 3 or a	above during the period that	N
If yes, have these been reported to	the Fish Health Inspectorate? If	no, FHI see comment.		N/A
9. Is C. elongatus infestation at a le	evel which is considered to cause	e significant welfare proble	ems? (CoGP 4.3.81, 5.3.50)	Ν
10. Have therapeutic treatments be suggested criteria for treatment or v				N/A
11. Has any other action been take	n (where applicable)?			N/A
12. Have therapeutic treatments or	the actions taken had a significa	ant impact upon the lice le	vels recorded?	N/A
13. Are treatments, where conducted	ed, carried out in cooperation bet	tween participating farms?)	Y
14. Is there a harvesting strategy for sea lice?				Y
15. Is there a site specific written lid scenarios during the escalation of a		waypoints describing set a	ictions to deal with recognise	d Y
16. Does the stock on site appear s reasons.	atisfactory in relation to sea lice	level and sea lice count d	ata? If no please detail	Y
Containment Inspection				
1. Has the site experienced equipm				N
2. Are measures in place to mitigat	• • •	ced on site? (Detail below)	Y
A.D.D., Seal Blinds, Tensioned	Nets, Top Nets			
If other, detail below:				
3. Have escape incidents or events	s been experienced on or in the	vicinity of the site since the	e last FHI inspection?	Ν
If Yes proceed with questions 4 – 9	. If No skip to question 10			
4. Have these been reported to Sco	ottish Ministers?			
5. Have these been reported to loca	al DSFB forthwith (where they ex	tist)? (CoGP - 4.4.37, 5.4	.17)	
6. Have these been reported to the	SSPO and local fisheries trusts	forthwith (where they exis	t)? (CoGP – 4.4.37, 5.4.17)	
7. Were methods (if any) used to re	cover escapees? If yes give det	ail		
8. If gill nets were deployed was thi	s action agreed with local wild fig	sh interests and was perm	ission given by Scottish	
Ministers? (Legal, CoGP - 4.4.38,	5.4.18)			
9. What action was taken to preven		escapes? (Not covered in	n code but could	
be considered under satisfactor 10. Is the site inspected as satisfac	•	2 If no, please detail read	on(s)	Y
To the one inspected as satisfact	tory with regards to containment		51(3)	

FHI 059, Version 11	Issued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0310 Sit	e No: FS0340	
Date of Visit: 25/07/2018	Inspector: SAE	
Point of Compliance		
Point of Compliance		
 Is the farm under inspection located with If N, no further questions require completion 	-	Y
Points of Compliance for Both Farm Mai		
2. Has a current farm management agreem		12
3. Is the current FMAg/S available for inspe	ction?	Y
 Does the FMAg/S identify the relevant fa Does the FMAg/S identify the fish farm s 	-	Ŷ
6. Does the FMAg/S identify the date of cor		nt? Y
7. Does the FMAg/S identify the date of rev	iew?	Y
Arrangements for Fish Health Manageme	ent	
8. Does the FMAg/S identify the minimum h farm?	nealth standards for the stocks to be introd	uced to the area or Y
9. Does the FMAg/S identify the vaccination	n requirements for stocks held in the area of	or farm? Y
 Does the FMAg/S identify the species o Does the FMAg/S identify the maximum 	•	
individual farm?	I Stocking density of any performany farming	
12. Does the FMAg/S identify the arrangem fish farm in the area or the individual farm?		ead fish from any
Arrangements for The Management of S	ea Lice	
13. Does the FMAg/S identify arrangements	s for the sharing of data on sea lice numbe	ers and treatments? Y
14. Does the FMAg/S identify the availability of statement?	y and the use of medicines on farms cover	red by the agreement Y
15. Does the FMAg/S identify any requirem lice on farms in the area or individual farms		
16. Does the FMAg/S identify the circumsta	nces under which biological controls and c	cleaner fish are to be Y
used on farms in the area or individual farm 17. Does the FMAg/S identify the arrangem		within the area? Y
Live Fish Movements		
18. Does the FMAg/S identify the circumsta area or farm?	nces when live fish may be introduced or r	
19. Does the FMAg/S identify the arrangem	ents for the movement of live fish on and o	off sites in the area Y
or individual farms?		

Harvesting

20. Does the FMAg/S identify acceptable harvest practices on farms in the area or individual farms?	Υ
Fallowing	
21. Does the FMAg/S identify the dates by which the area or individual farm will be fallow and the earliest date when a farm or area may be restocked?	Y
22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement?	Y
23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?	Y
Point of Compliance for Farm Management Agreements Only	
24. Does the farm management agreement include arrangements for persons to become, or cease to be, parties to the agreement?	N/A
Management and operation	
25. Is the fish farm being managed and operated in accordance with the agreement or statement?	Y
26. What is the version no/date of issue of the FMAg/S? 26/02/2018	

Site No: FS0340

Case No: 2018-0310

Nature of non-compliance:

Action taken (FHI):

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

Case No:	2018-0310	Date of visit: 25/07/2018						
Site No:	FS0340			Inspector:	SAE	l		
Results Summary	Freq.			Dat	te of Notificat	tion		
		Database	Insp			Writing	Insp	2 nd Insp
				1				
Report Summary	Dete	laan	ond to a s					
Case Type ECI, CNI, SLI, VMD	Date 06/08/2018	Insp SAF	2 nd Insp ALW					
,,,								

marine scotland science



The Scottish Salmon Company 1 Smithy Lane Lochgilphead Argyll PA31 8TA

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOFB0169SITE NOFS0340INSPECTORSvenja Elwenn

DATE OF VISIT25/07/2018SITE NAMEKilerivagh (Petersport)CASE NO20180310

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

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

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

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.

R25

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 2013

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory with regards to parasites, fish farm management agreements and statements and containment and escapes.

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

Signed:

Date: 06/08/2018

Fish Health Inspector

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

FHI 059, Version 11	lss	ued by: FHI	Date of issue: 12/09/2017			
Case No: 2018-0316			Date of visit: 20/07/2018			
Time spent on site:	15mins	Main In	spector: ASM			
Site No: SS0068 Business No: SB0044	Site Name: Business Name:	Inganess Bay Benesther Shellfish				
Case Types: 1 PSI	2 3	4 5	6			
Water Temp (°C):	Thermometer No:		FHI 045 completed			
Observations:	Region: OR	Water type: S	CoGP MA:			
Dead/weak/abnormally behavin Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?	• •	If yes, see additional information/clinical score sheet. If yes, see additional information/clinical score sheet. If yes, see additional information/clinical score sheet.				
UNI/REG only - if unable to carr	ry out intended visit detail re	ason below:				

Additional Case Information:

Fallow for about 20 years.

Manager currently in the process of developing an oyster hatchery at Lamb Holm. Contact has been sent authorisation forms and guidance documents, although the project won't be finished for many months at this stage.

No facilities or animals on the site, but he may reuse the site when the oyster hatchery is up and running (so the site was not inactivated at the time of inspection).

FHI 059, Version 11	Issued by: FHI			Date	of issue: 12/09/
Case Number:	2018-0316 Site No:	SS006	8		
Date of Visit	20/07/2018 Inspector:	ASM]	
Number of Susceptil	ble species on site				
	ies present = <u>LOW</u> risk				
f susceptible species	present, score for each pathogen		No	Yes	
	Susceptible to Bonamia ostrea (OED)		0	25	
	Susceptible to Marteilia refringens (OED, MED)		0	3	
	Susceptible to OsHV (CGI)		0	3	3
Sites within a tidal e	xcursion	1	2-5	>6	
Site contacts	Number of sites holding susceptible species within a tidal excursion	0	2	10	0
Live shellfish moven	nents	0	1-2	>3	
Movements on	Frequency of movements on from equivalent MS	0	5	10	0
	Frequency of movements on from equivalent zone or				
	compartment including third country	0	10	20	
	Number of suppliers	0	5	10	
Movements off	Frequency of movements off <u>within</u> MSS Management Areas	0	1	2	ο
	Frequency of movements off <u>outwith</u> MSS Management Areas	0	3	6	
	Number of destinations	0	3	6	
Management practices		None	Secure (effluent treatment)	Unsecure (no effluent treatment)	
Water contacts with depuration facilities	Depuration of stock from own sites within MSS management area	0	1	2	0
	Depuration of stock from other businesses sites within MSS management area	0	2	6	
	Depuration of stock from sites outwith MSS management area	0	4	8	
Biosecurity	Number of sites	1	2 or 3	≥ 4	
Biosecurity Contacts with other	Sites operating from single shorebase	1	2 or 3	≥4 2	0
-					0
	Sites operating from single shorebase	0	1	2	0
Contacts with other	Sites operating from single shorebase	0	1	2 5	0

FHI 059, Version 11	Issued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0316	Site No: SS0068	
Date of case: 20/07/2018	Inspector(s):	ASM
Business/site contacts correct? (if no, updat	e site summary sheet)	Y
Site Details		
Total No facilities: 0	No facilit	ties stocked: 0
Species fallow		
Age group		
No shellfish Mean fish Wt		
Next fallow date (site) N/A	Next input date (site)	No plans
Date of last inspection: (ECI or PSI):	10/08/2016	
Any recent increased or atypical mortalities	? (last 4 weeks):	N
If yes, detail:		
e.g. site		
average, max		
per facility fallow since 20 years.		
Any increased mortalities? (since last inspe	ction)	N
If yes, detail:		
How are mortalities disposed of?		Other (detail)
If other detail: Foreshore (empty shells)		
Are there any diseases on your site?		N
If yes, detail:		
Have you experienced predation on site?		N
If yes, detail:		
Has the site experienced increased or abno	rmal fouling?	N
If yes, detail:		
Have you observed any invasive species or	vour site?	N
If yes, detail:		
Do you have an up to date BMP, and are th	are any issue?	Y
If yes, detail:		
What quantity of spat fall have you had in th	a last 12 months? (mussal sites only)	
N/A		

Case No:	2018-0316	Date of visit: 20/07/2018						
Site No:	SS0068	Inspector: ASM						
Results Summary	Freq.	-		Dat	te of Notifica	tion		
Results Summary	rieq.	Database	Insp		Insp	Writing	Insp	2 nd Insp
Report Summary								
Case Type	Date	Insp	2 nd Insp					
PSI	23/07/2018	ASM	ALW					
								

marine scotland science



Benesther Shellfish New Horries Deerness Orkney KW17 2QL

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOSB0044SITE NOSS0068INSPECTORAndy Mayes

DATE OF CASE20/07/2018SITE NAMEInganess BayCASE NO20180316

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

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

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

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

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: 23/07/2018

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

FHI 059, Version 11		Issued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0317			Date of visit: 20/07/2018
Time spent on site:	15 mins	Main Inspe	ector: ASM
Site No: SS0083 Business No: SB0054	Site Name: Business Name:	South Side of Loch Feocha J.P.D.Korff & D.T.Williams	
Case Types: 1 PSI	23	4 5	6
Water Temp (°C):	Thermometer No:		FHI 045 completed
Observations:	Region: ST	Water type: S	CoGP MA:
Dead/weak/abnormally behavin Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?	• ·	If yes, see additional in	nformation/clinical score sheet. nformation/clinical score sheet. nformation/clinical score sheet.
UNI/REG only - if unable to car	ry out intended visit detai	l reason below:	

Additional Case Information:

All stock on site currently very old. Manager is thinking about acquiring new stock. Unsure where stock will be bought from. Advice given as to disease status of various hatcheries and stockists. Stock used for personal consumption only

FHI 059, Version 11	Issued by: FHI			Date	of issue: 12/09/
Case Number:	2018-0317 Site No:	SS008	3		
Date of Visit	20/07/2018 Inspector:	ASM			
Number of Susceptil	ble species on site				
	ies present = <u>LOW</u> risk				
f susceptible species	present, score for each pathogen		No	Yes	
	Susceptible to Bonamia ostrea (OED)		0	25	
	Susceptible to Marteilia refringens (OED, MED)		0	3	
	Susceptible to OsHV (CGI)		0	3	3
Sites within a tidal e	xcursion	1	2-5	>6	
Site contacts	Number of sites holding susceptible species within a tidal excursion	0	2	10	0
Live shellfish moven	nents	0	1-2	>3	
Movements on	Frequency of movements on from equivalent MS	0	5	10	0
	Frequency of movements on from equivalent zone or				
	compartment including third country	0	10	20	
	Number of suppliers	0	5	10	
Movements off	Frequency of movements off <u>within</u> MSS Management Areas	0	1	2	0
	Frequency of movements off outwith MSS Management				0
	Areas	0	3	6 6	
	Number of destinations	0	3	0	
Management			Secure (effluent	Unsecure (no effluent	
-		None	treatment)	treatment)	
	Depuration of stock from own sites within MSS management area	None 0	-	•	0
Water contacts with	management area Depuration of stock from other businesses sites within		treatment)	treatment)	0
Water contacts with	management area	0	treatment)	treatment)	0
practices Water contacts with depuration facilities	management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management	0	treatment)	treatment)	0
practices Water contacts with depuration facilities	management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites	0 0 0	treatment)	treatment)	0
practices Water contacts with depuration facilities Biosecurity	management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area	0 0 0 1	treatment) 1 2 4 2 or 3	treatment) 2 6 8 2 4	
practices Water contacts with depuration facilities Biosecurity Contacts with other	management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase	0 0 0 1	treatment) 1 2 4 2 or 3 1	treatment) 2 6 8 ≥4 2	
practices Water contacts with depuration facilities Biosecurity Contacts with other	management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase	0 0 0 1 0 0	treatment) 1 2 4 2 or 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	treatment) 2 6 8 ≥4 2 5	

FHI 059, Version 11	Issued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0317	Site No: SS0083	
Date of case: 20/07/2018	Inspector(s):	ASM
Business/site contacts correct? (if no, updat	e site summary sheet)	Y
Site Details		
Total No facilities: 10 Species CGI	No facili	ties stocked: 7
Age group ~15 years		
No shellfish 3,000		
Mean fish Wt 250g		
Next fallow date (site) no plans	Next input date (site)	unsure
Date of last inspection: (ECI or PSI):	31/08/2015	
Any recent increased or atypical mortalities?	' (last 4 weeks):	N
If yes, detail:		
e.g. site average, max		
per facility		
Any increased mortalities? (since last inspective last inspective) If yes, detail:	tion)	N
How are mortalities disposed of?		Other (detail)
If other detail: Foreshore (empty shells)		
Are there any diseases on your site?		N
If yes, detail:		
Have you experienced predation on site? If yes, detail: Few crabs, very few lost three	auch predation	Ŷ
Has the site experienced increased or abno	rmal fouling?	N
If yes, detail:		
Have you observed any invasive species on	vour site?	N
If yes, detail:		
Do you have an up to date BMP, and are the If yes, detail:	any ISSUES?	Y
What quantity of spat fall have you had in th	e last 12 months? (mussel sites only):	
N/A		

Case No:	2018-0317	Date of visit: 20/07/2018						
Site No:	SS0083	Inspector: ASM						
Results Summary	Freq.	Date of Notification						
Results Summary	гтец.	Database	Insp	Phone	Insp		Insp	2 nd Insp
Report Summary								
Case Type	Date	Insp	2 nd Insp					
PSI	23/07/2018	ASM	ALW					





J.P.D.Korff & D.T.Williams 20A High Street Tarporley Cheshire CW6 0EA

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No SB0054 SITE NO SS0083 **INSPECTOR** Andy Mayes DATE OF CASE 20/07/2018 SITE NAME South Side of Loch Feochan CASE NO 20180317

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

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

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

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

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: 23/07/2018

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

FHI 059, Version 11		Issued by: FHI		Date of issue: 12/09/2017
Case No: 2018-0318			Date	e of visit: 20/07/2018
Time spent on site:	30mins	Ma	ain Inspector:	ASM
Site No: SS0182 Business No: SB0119	Site Name: Business Name:	Scalpay Scalpay Estate		
Case Types: 1 PSI	23	4 5	6	
Water Temp (°C):	Thermometer No:		FHI	045 completed
Observations:	Region: HI	Water type:	s c	COGP MA:
Dead/weak/abnormally behavin Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?	• •	If yes, see add	itional information	n/clinical score sheet. n/clinical score sheet. n/clinical score sheet.
UNI/REG only - if unable to car	ry out intended visit deta	il reason below:		

Additional Case Information:

The site has undergone a lengthy clean up after the previous manager neglected the site.

Three longlines on site at the moment, but fallow. These will be fitted with scallop collectors in August 2018. The spat will be picked off the collectors and laid in a several order (several order is no yet active as the manager is waiting for his application to be approved).

The manager is also investigating seaweed production and will likely install some longlines to grow seaweed in the near future.

FHI 059, Version 11	Issued by: FHI			Date	of issue: 12/0
Case Number:	2018-0318 Site No:	SS018	2		
Date of Visit	20/07/2018 Inspector:	ASM]	
Number of Susceptil	ble species on site				
	ies present = <u>LOW</u> risk				
f susceptible species	present, score for each pathogen		No	Yes	
	Susceptible to Bonamia ostrea (OED)		0	25	0
	Susceptible to Marteilia refringens (OED, MED)		0	3	
	Susceptible to OsHV (CGI)		0	3	
Sites within a tidal e	xcursion	1	2-5	>6	
Site contacts	Number of sites holding susceptible species within a tidal excursion	0	2	10	0
					Ū
Live shellfish moven		0	1-2	>3	
Movements on	Frequency of movements on from equivalent MS	0	5	10	0
	Frequency of movements on from equivalent zone or				
	compartment including third country	0	10	20	
	Number of suppliers	0	5	10	
Novements off					
	Frequency of movements off <u>within</u> MSS Management Areas	0	1	2	0
		0	1	2	0
	Frequency of movements off <u>outwith</u> MSS Management Areas	0	2	6	
			3	6 6	
	INTIMPER OF DESTINATIONS	0		0	
	Number of destinations	0	3	0	
	Number of destinations	0	ہ Secure	Unsecure	
Management	Number of destinations	0			
Management practices	Number of destinations		Secure	Unsecure	
-			Secure (effluent	Unsecure (no effluent	
oractices	Depuration of stock from own sites within MSS	None	Secure (effluent treatment)	Unsecure (no effluent treatment)	0
Water contacts with	Depuration of stock from own sites within MSS management area		Secure (effluent	Unsecure (no effluent	0
Water contacts with	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within	None 0	Secure (effluent treatment) 1	Unsecure (no effluent treatment) 2	0
Water contacts with	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area	None	Secure (effluent treatment)	Unsecure (no effluent treatment)	0
Water contacts with	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management	None 0	Secure (effluent treatment) 1	Unsecure (no effluent treatment) 2	0
Water contacts with	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area	None 0	Secure (effluent treatment) 1 2	Unsecure (no effluent treatment) 2 6	0
Water contacts with	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management	None 0	Secure (effluent treatment) 1 2	Unsecure (no effluent treatment) 2 6	0
vater contacts with depuration facilities	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area	None 0 0 0	Secure (effluent treatment) 1 2 4	Unsecure (no effluent treatment)	0
Water contacts with depuration facilities	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites	None 0 0 0 1	Secure (effluent treatment) 1 2 4 2 or 3	Unsecure (no effluent treatment) 2 6 8 ≥ 4	
Water contacts with depuration facilities	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase	None 0 0 1 0	Secure (effluent treatment) 1 2 4 2 or 3 1	Unsecure (no effluent treatment) 2 6 8 ≥ 4 2	
Water contacts with depuration facilities	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase	None 0 0 1 0	Secure (effluent treatment) 1 2 4 2 or 3 1 1	Unsecure (no effluent treatment) 2 6 8 ≥ 4 2 5	
Water contacts with depuration facilities	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase Sites sharing staff and equipment	None 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Secure (effluent treatment) 1 2 4 2 or 3 1 1 1 Yes	Unsecure (no effluent treatment) 2 6 8 ≥ 4 2 5 No	0
Water contacts with depuration facilities	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase	None 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Secure (effluent treatment) 1 2 4 2 or 3 1 1	Unsecure (no effluent treatment) 2 6 8 ≥ 4 2 5	
Water contacts with depuration facilities	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase Sites sharing staff and equipment	None 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Secure (effluent treatment) 1 2 4 2 or 3 1 1 1 Yes	Unsecure (no effluent treatment) 2 6 8 ≥ 4 2 5 No	0

FHI 059, Version 11	Issued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0318	Site No: SS0182	
Date of case: 20/07/2018	B Inspector(s): A	SM
Business/site contacts correct? (if no, upd	ate site summary sheet)	Y
Site Details	-	
Total No facilities: Species Fallow	No facilitie	s stocked: 0
Age group		
No shellfish Mean fish Wt	+ $+$ $+$ $+$	
Next fallow date (site) N/A	Next input date (site) S	Summer 2019
Date of last inspection: (ECI or PSI):	15/11/2016	
Any recent increased or atypical mortalities	s? (last 4 weeks):	N
If yes, detail: e.g. site		
average, max		
per facility		
Any increased mortalities? (since last insp	ection)	N
If yes, detail:		
How are mortalities disposed of?		Other (detail)
If other detail: N/A		
Are there any diseases on your site?		N
If yes, detail:		
Have you experienced predation on site?		N
If yes, detail:		
Has the site experienced increased or abn	ormal fouling?	N
If yes, detail:		
Have you observed any invasive species of	on your site?	N
If yes, detail:		
Do you have an up to date BMP, and are t	here any issues?	Y
If yes, detail:		
What quantity of spat fall have you had in	the last 12 months? (mussel sites only):	
N/A		

Case No:	2018-0318			Date of visit:	20/07/2018	l		
Site No:	SS0182	1		Inspector:	ASM	I		
Results Summary	Freq.			Dat	te of Notifica	tion		
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
Report Summary				1				
Case Type	Date	Insp	2 nd Insp					
Case Type PSI	23/07/2018	ASM	ALW					
	 							





Scalpay Estate Scalpay House Broadford Isle of Skye IV49 9BS

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOSB0119SITE NOSS0182INSPECTORAndy Mayes

 DATE OF CASE
 20/07/2018

 SITE NAME
 Scalpay

 CASE NO
 20180318

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

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

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

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

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

Signed:

R26

Date: 23/07/2018

Fish Health Inspector

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

FHI 059, Version 11	ls	sued by: FHI		Date of issue: 12/09/2017
Case No: 2018-0324				Date of visit: 02/08/2018
Time spent on site: 5	hrs		Main Inspector	r: SAE
Site No: FS1246 Business No: FB0544	Site Name: Business Name:	Western Isles Scotland		
Case Types: 1 REP 2	2 DIA 3	4	5	6
Water Temp (°C): 15.6	Thermometer No:	T205		FHI 045 completed
Observations:	Region: WI	Water type	e: B	CoGP MA:
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	Y If yes, see	additional inform	nation/clinical score sheet. nation/clinical score sheet. nation/clinical score sheet.
UNI/REG only - if unable to carry	out intended visit detail r	eason below:		

Additional Case Information:

FHI was contacted by the Outer Hebrides Fisheries Trust on 30 July 2018 regarding mortalities in wild salmon in West Lewis. Approximately 80 mortalities removed from the banks of the tidal pools the week before the visit all with very heavy lice burdens.

Walked along the length of the tidal pools to look for lethargic fish. 2 lethargic fish (1 thought to be dead but subsequently had vanished) observed however unable to reach them. Used a seine net along 3 points of the pools to try and capture fish. 1 fish caught and sampled.

Prolonged periods of rain just prior to the visit, which have considerably topped up the water level of the pools. Prior to that 7-8 dry and sunny weeks with increasingly low water levels in the pools. Approximately 80 mortalities removed from the banks of the pools the week before all with very heavy lice burdens. Local fisheries trust has done some counts with up to 680 lice on one fish. 2 frozen fish were seen with heavy lice burdens which were reportedly at the lower end of lice levels observed on the mortalities removed from the pools. A number of fish were removed and moved into freshwater last week.

Contact:

Outer Hebrides Fisheries Trust) 01851 703 419

FHI 059, Version 11			lssu	ed by: FHI			Date of issu	e: 12/09/2017
Case No:	2018-0324]	Site No:	FS1246				
Date of Visit:		02/08/2018			Inspector(s):	SAE]
Registration/Author 1. Business/site deta 2. Changes made to Site Details	ails summary		ite representa	ative?			N/A N/A]
Total No facilities		N/A	Facilities sto	cked		No facilitie	s inspected	
Species	N/A							
Age group No Fish								
Mean Fish Wt								
Next Fallow Date (S	ite)		-	Next Input Da	ate (Site)			
Recent (last 4 wks) If yes, detail:	disease prob	lems?		N/A	Any escapes	(since last	visit)?	N/A
Movement Record								
1. Movement record		r inspection?						N/A
2. Date of last inspe							N/A	
3. Are records comp		•						N/A
 Are movement re Are records comp 				•				N/A N/A
6. Are health certific				able?				N/A
Transport Records		,	,					
1. Are any movement If yes, is there a sys								
Mortality Records	·		·					
1. Mortality records		•						N/A
2. How are mortalitie If other detail:	es disposed c	of?						
3. Mortality records	complete and	correctly ente	ered?					N/A
4. Recent mortality (Concord on the						
5. Evidence of recer	nt increased/a	atypical mortal	ities?					N/A
If yes, facility nos/no	mortality per	facility/no sto	ck per facility	/reason:				
6. Any other peaks i	n mortality du	ırina period ch	ecked?					N/A
If yes, detail:								
7. Have increased (unexplained)	mortalities be	en reported to	vet or FHI?				N/A
If yes, detail action: 8. Have 'mortality ev	ents' heen re	ported to FHI	? If no. add M	IRT case and e	enter on morta	lity events s	sheet	N/A
of flavo filorality of						inty ovoring c		

Treatments and Medicines Records	
1. Recent treatments (last 4 wks)?	N/A
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/A
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 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?	N/A
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: N/A	

FHI 059, Version 11				Issued by: FHI		
Case no:	2018-0324	Site No:	FS1246	Date of visit/ Sampling:	02/08/2018	02/(
Priority samples:	VI	BA	PA	MG	н	
Time sampling starts/ends:	11:30:00	12:30:00	Inspector:	SAE	VMD No.	0
Environmental conditions:	1 Dry	2 Windy	3 Cloudy	4	5	
Summary samples	HIST Y	BA Y	MG Y VI	Y PA	Y Total Sa	mples

Add Fish/Pools - click

П	Pool/Fish No	F1	P1	F3	F4	P2				
	Fish nos	1	1	2	3	2-3				
	Pool Group	P1	P1	P2	P2	P2				
	•	SAL	SAL	SAL	SAL	SAL				
	Average weight	3kg	3kg	3kg	3kg	3kg				
	Sex	N/A	N/A	N/A	N/A	N/A				
	Water Type	SW	SW	SW	SW	SW				
stock Details	Stock Origin Facility No	Black Water River								
Stoc	Facility No			M/A						

08/2018	3/2018 Additional Sample Information:														
	Parasitology samples: vent, pectoral fin and free parasite in body cavity from F1. Scale sample taken.														
5	5 Total Tests assigned 11														

FHI 059, Version 11			Issued by	/: FHI		Date of issue: 12/09/201			
Case no:	2018-0324		Site No:	FS124	6	Meth	od of killing		
Date of visit:	02/08/20	018	Inspector(s):	SAE			Sheet R	elevant:	
S for strong preser	nce: M for medium presence: W	for weak pre	sence						
Fish Number	ice. In for mediain presence. I	IF1	Schee			-			
	er death (if > 45 minutes)								
External Signs	, · ·								
Behaviour	Moribund	S							
	Lethargic	S							
	Hanging vertical			_					
	Spiralling	_							
	Flashing			_					
Rody	Loss of equilibrium Dark								
Body	Distended abdomen								
	Anorexic	W		_					
	Scale Oedema								
Opercula	Shortened								
•	Flared								
Haemorrhaging	Throat								
	Ventrum								
	Base of fins								
-	Elsewhere								
Eyes	Exophthalmic								
	Enophthalmic (sunken)			_			_		
	Cataract Haemorrhagic			-		-			
Gills	Pale	M							
	Zoned								
	Necrotic								
Lesions	Flank								
	Elsewhere	М							
Vent	Inflamed	Μ							
	Trailing faeces								
Lice Load	Estimate numbers		6			_			
la terre el Oirre e									
Internal Signs Ascites	Clear	_		_		_	_		
Ascilles	Bloody	w		_		_			
Oedema	In tissues								
Heart	Pale/anaemic								
	Granulomas								
	Deformed								
Liver	Petechial haem								
	Gross haem								
	Tissue breakdown								
	Enlarged Colour number(s)		4						
	Granulomas								
	Lesions								
Pyloric caeca	Petechial haem								
	Tubules mauve								
	Lack of fat								
Spleen	Enlarged	М							
	Granulomas								
Gut	No food present	S							
	Yellow pseudo-faeces								
	External haem Internal haem								
Body wall	Haemorrhaging								
Swim bladder	Haemorrhaging								
	Fluid filled								
Kidney	Swollen								
	Grey								
	Granular								
	Liquefied								
General	Parasites present	W							
	Anaemia								

Case no:	2018-0324

Г

Date of visit:

02/08/2018

S for strong presence: M for medium presence: W for w

	ce: M for medium presence: W for v	۸		 	 	 	
Fish Number							
Time sampled after	er death (if > 45 minutes)						
External Signs							
Behaviour	Moribund						
	Lethargic						
	Hanging vertical						
	Spiralling						
	Flashing						
	Loss of equilibrium						
Body	Dark						
	Distended abdomen						
	Anorexic						
0	Scale Oedema						
Opercula	Shortened Shortened						
	Flared						
Haemorrhaging	Throat						
	Ventrum Base of fins						
	Elsewhere						
Eyes	Exophthalmic						
Lycs	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						
Dularia asass	Lesions Retrobial base						
Pyloric caeca	Petechial haem						
	Tubules mauve Lack of fat						
Spleen	Enlarged						
Spieen	Granulomas						
Gut	No food present						
Jul	Yellow pseudo-faeces						
	External haem						
	Internal haem						
Body wall	Haemorrhaging						
Swim bladder	Haemorrhaging						
	Fluid filled						
Kidney	Swollen						
	Grey						
	Granular						
	Liquefied						
General	Parasites present						
	Anaemia						

Additional comments:

Unfortunately gills were filled with mud as the fish was seine netted. Lesion on the operculum. Other areas looked as some superficial damage had occurred however no open lesions had yet formed.

Site No: FS1246

Case No: 2018-0324

Nature of non-compliance:

Action taken (FHI):

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

Case No:	2018-0324	l		Date of visit:	02/08/2018			
Site No:	FS1246	l		Inspector:	SAE]		
Results Summary	Freq.			Dat	te of Notifica	tion		
,	·	Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
MG - IPN	0/2	06/08/2018	SAE	07/08/2018	SAE	11/09/2018	SAE	ALW
MG - IHN	0/2	06/08/2018	SAE	07/08/2018	SAE	11/09/2018	SAE	ALW
MG - ISA	0/2	06/08/2018	SAE	07/08/2018	SAE	11/09/2018	SAE	ALW
MG - SAV	0/2	06/08/2018	SAE	07/08/2018	SAE	11/09/2018	SAE	ALW
MG - VHS	0/2	06/08/2018	SAE	07/08/2018	SAE	11/09/2018	SAE	ALW
ADHE	1/1	13/08/2018	SAE	16/08/2018	SAE	11/09/2018	SAE	ALW
SKIN	1/1	13/08/2018	SAE	16/08/2018	SAE	11/09/2018	SAE	ALW
CEST	1/1	13/08/2018	SAE	16/08/2018	SAE	11/09/2018	SAE	ALW
A. simplex	1/1	16/08/2018	SAE	16/08/2018	SAE	11/09/2018	SAE	ALW
GSAL	0/1	16/08/2018	SAE	16/08/2018	SAE	11/09/2018	SAE	ALW
PSFL	1/1	17/08/2018	SAE	16/08/2018	SAE	11/09/2018	SAE	ALW
AERO	1/1	18/08/2018	SAE	16/08/2018	SAE	11/09/2018	SAE	ALW
VI GEN	0/1	11/09/2018	SAE			11/09/2018	SAE	ALW
	•	•		•		•		
Report Summary								
Case Type	Date	Insp	2 nd Insp	1				
REP, DIA	11/09/2018		ALW					
				1				
L								

marine scotland science



Outer Hebrides Fisheries Trust The Sawmill Marybank Stornoway Isle of Lewis HS2 0DD

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOFB0544SITE NOFS1246INSPECTORSvenja Elwenn

DATE OF VISIT0SITE NAMEVCASE NO2

02/08/2018 Western Isles 20180324

Section 1: Summary

One moribund wild Atlantic salmon was sampled from Black Water River in Lewis.

Histopathological examination revealed skin lesions with presence of hyphae-like structures (likely *Saprolegnia*) and mixed bacteria. The skin lesions might be associated with physical damage. The Cestoda-like structures in the gut are known to live commensally.

Pseudomonas fluorescens and *Aeromonas* sp. were isolated, both bacteria are known as opportunist pathogens. The level of growth would not suggest bacteria are implicated in the fish morbidity as a primary pathogen. *Saprolegnia* sp. was also identified which may have caused the fungal-like infections observed externally on the caudal fin.

Nematode parasites in the vent and body cavity were identified as Anisakis simplex.

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

Section 2: Case Detail

Observations

The Marine Scotland Fish Health Inspectorate was contacted by the Outer Hebrides Fisheries Trust on 30 July 2018 regarding mortalities in wild Atlantic salmon in Blackwater River, West Lewis. Approximately 80 mortalities had been removed from the banks of the tidal pools the week before the visit all with very heavy lice burdens. Up to that point 7-8 weeks of dry and sunny weather had led to lower than usual water levels in the tidal pools and increased salinity levels in

R09

the normally brackish water. A period of heavy rain just prior to the visit had restored the water levels in the tidal pools. Prior to the visit a number of fish had been taken upriver.

At the time of the visit the area was thoroughly searched and a seine net was used to try and catch fish for sampling. One moribund and lethargic Atlantic salmon was captured and sampled. Externally some areas of skin on the flank and ventral surface appeared abraded with a lesion on the operculum. The dorsal fin was damaged and eroded. Suspected fungal growth and some erosion was observed on the caudal fin. The vent appeared inflamed and the gills appeared pale. Approximately six lice of different stages were observed. Internal gross pathology showed bloody ascites and a pale liver. The spleen appeared to be enlarged and no food was present in the gut.

Two mortalities had been collected previously by staff on the estate and frozen. These were defrosted and sampled.

Samples

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

Fish number	Pool number	Species	Scale reading	Stage	Origin
F1	P1	Atlantic salmon	3.2+	3kg	Blackwater River
F3 & F4	P2	Atlantic salmon	N/A	2kg	Blackwater River (frozen – PCR samples only)

Scale reading indicates that the salmon is 5+ years old, having spent 3 years in freshwater and 2+ years at sea.

<u>Results</u>

Bacteriology: Kidney, gill, spleen and lesion material from one fish was inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated from fish F1:

- Pseudomonas fluorescens (gill and lesion)
- Aeromonas sp. (kidney and lesion)

A fungus-like growth with the microscopic characteristics resembling *Saprolegnia* sp. was observed on a plate taken from lesion material.

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

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

A general screen was conducted on tissue samples to test for the presence of viral pathogens by cell culture.

The result of this test was negative.

R09

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

No *G. salaris* parasites were detected in the samples examined. However, one attached chalimus stage of the *Lepeoptheirus salmonis* sea louse was found indicating the fish had not been in freshwater very long.

A parasite collected from within the body cavity was identified as *Anisakis simplex*. A section of muscle around, and including the vent, was also submitted and, after dissection, was found to contain 92 *Anisakis simplex* nematodes.

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

Histopathological examination by light microscopy revealed the following:

Gill: Within the normal range.

<u>Skin & Muscle (Lesion)</u>: Absence of epidermal layer, presence of few bacteria and hyphae-like structures associated with stratum spongious of dermis and at the junction of the dermis and hypodermis and necrosis of few scattered skeletal muscle fibres.

Heart: Within the normal range

Gut and pyloric caeca: Within intestinal lumen presence of parasite structures resembling Cestoda parasites.

Pancreas: Within normal range.

Liver: Within normal range.

Kidney: Within normal range.

<u>Spleen:</u> Slightly congested. Associated with splenic capsule, it was noted fibrous adhesions and a granuloma-like structure that stained periodic acid schiff (PAS) positive at the centre.

Date: 11/09/2018

Fish Health Inspector

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

Signed:

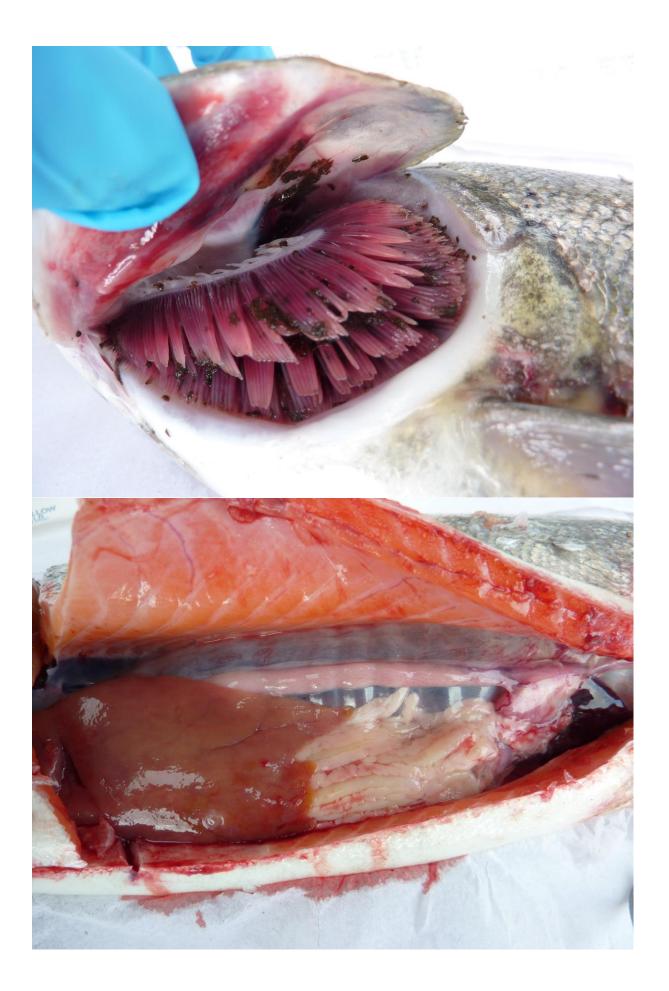
2018-0324 Isle of Lewis – Black Water River 02 August 2018

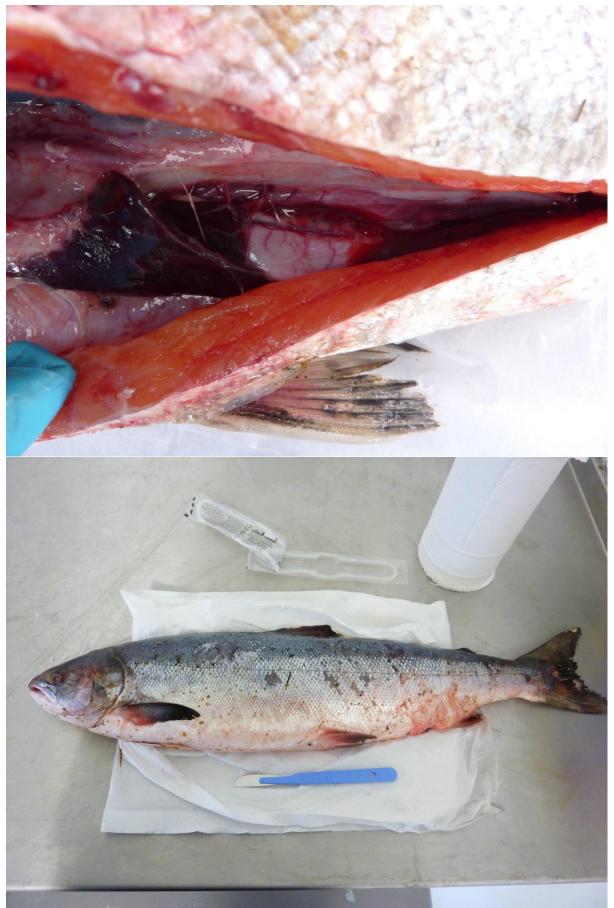












F2 (frozen fish)









F3 (frozen fish)



FHI 059, Version 11	lssu	ed by: FHI	Date of issue: 12/09/2017					
Case No: 2018-0326			Date of visit: 07/08/2018					
Time spent on site:	3.5 Hrs	Main Inspecto	or: WJM					
Site No: FS1091 Business No: FB0169	Site Name: Business Name:	Vacasay The Scottish Salmon Compan	у					
Case Types: 1 REG	2 CNI 3 SLI	4 VMD 5	6					
Water Temp (°C): 14.6	Thermometer No:	T274	FHI 045 completed					
Observations:	Region: WI	Water type: S	CoGP MA: W-1					
Dead/weak/abnormally behaving fish present?YIf yes, see additional information/clinical score sheet.Clinical signs of disease observed?YIf 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								
	Water tempe	rature above 14oC						

Additional Case Information:

Mortality levels have remained low since input of stock.

Sea lice levels fluctuating from week to week but numbers have been reported.

White heads observed in pens from sea lice. Some fish appeared lethargic but no gross pathology observed on fish sampled for VMD.

Full EC inspection could not be conducted as water temperature on site was found to be above 14oC. Paperwork for full EC inspection was completed. Inspection will be rearranged for a later date.

FHI 059, Version 11	ion 11			ed by: FHI	Date of issue: 12/09/2017			
Case No:	2018-0326		Site No:	FS1091]			
Date of Visit:		07/08/2018	3		Inspector(s):	WJM]
Registration/Autho 1. Business/site deta 2. Changes made to	ails summary		site representa	ative?			Y N]
Site Details								
Total No facilities	-	12	Facilities sto	cked	11	No facilitie	s inspected	12
Species	SAL	LUM						
Age group	2017 S1							
No Fish	313,247	15,627						
Mean Fish Wt	3 Kg	unknown						
Next Fallow Date (S	ite)	OCTOBER 2	2018	Next Input Da	ate (Site)	OCTOBER	R 2019	
Recent (last 4 wks) o If yes, detail:	disease prob	lems?		N	Any escapes	(since last	visit)?	N
n yes, detail.								
Movement Records	S							
1. Movement record		or inspection?						Y
2. Date of last inspec			_				02/03/2017	
3. Are records comp		•						Y Y
 Are movement ree Are records comp 								
6. Are health certification				able?				N/A
								i
Transport Records								
1. Are any movemer	nts carried ou	ut by (or on be	half) of the bu	isiness (not us	ing a STB)?			Y
If yes, is there a syst								Y
Mortality Records								<u></u>
1. Mortality records a	available for	inspection?						Y
2. How are mortalitie	es disposed o	of?			Whole fish -	Dundas Che	emicals	
If other detail:								
3. Mortality records of	•	d correctly ent						Y
4. Recent mortality (P	4,031 (1.2%)	for whole site			N
5. Evidence of recen		••		1				N
If yes, facility nos/no	monality pe		оск регласниу	/reason.				
6. Any other peaks in	n mortality di	uring period cl	necked?					N
If yes, detail:								
7. Have increased (unexplained) mortalities been reported to vet or FHI?								
If yes, detail action:								
8. Have 'mortality ev	ents' been re	eported to FHI	? If no, add M	IRT case and e	enter on morta	ality events s	sheet.	N/A

Treatments and Medicines Records								
1. Recent treatments (last 4 wks)?	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?	Y							
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	Y							
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any								
increased (unexplained) mortality at the site been included?	Y							
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease								
is detected been included and how and when that will be notified to Scottish Ministers?								
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?	Y							
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 	Y							
aquaculture animals held on site?	-							
8. Have the biosecurity procedures been adequately implemented on site?	Y							
If no, detail:								
Results of Surveillance								
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	Y							
2. If yes, are results available for inspection?	Y							
3. Any significant results?	N							
If yes, detail (if not detailed under recent disease problems).								
Records checked between: 02/03/2017 - 07/08/2018								

Fł	FHI 059, Version 11					Issued by: FHI							
	Case no:	2018-03	326	Site No:		FS1091			Date of	visit/	07/	08/2018	07/(
									Samplin				
	Priority samples:	VI		BA		PA		MG		HI			
				-									
	Time sampling	14:0	0:00	14:4	5:00		Inspecto	or:	WJM		VMD No	Э.	13
	starts/ends:												
	Environmental conditions:	1	Indoors	2		3		4		5			
	• •	LUOT						к <i>и</i> – Г					
	Summary samples	HIST		BA		MG		VI		PA		Total Sa	mples
^	dd Fish/Pools - click												
^													
	Pool/Fish No												
	Fish nos	1	2										
	Pool Group												
	Species	SAL	SAL										
	Average weight		3.0000										
	Sex	N/A	N/A										
	Water Type	SW	SW										
ails		ish	ish										
Det		Ina	ina										
Stock Details	Stock Origin	Taranaish	Taranaish										
toc	Stock Origin Facility No		⊢ 12										
S		1	12										

08/2018 Additional Sample Information:													
	1					•							
0	0 Total Tests assigned 0												

		Issued by: I Th					. 12/03/201
Case Number:	2018-0326		Site No:	FS1091		Insp:	WJM
Date of Visit	07/08/2018		No of mo	ovements/su	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	
with GB) of susceptible species		novements on from equivalent zone or including third country	0	9	18	26	
	Number of sup		0	5	10	14	
Movements off	Frequency of n	novements off	0	3	6	10	1(
	Number of des		0	3	6	10	
Exposure via water	•	Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species	disinfection or l	•	0				
susceptible to same diseases)	farms upstrean	or in a coastal zone with category I or within 1 tidal excursion	1	2	4		
	farms upstrean	or in a coastal zone with category III or within 1 tidal excursion	1	3	6		
		or in a coastal zone with category V n or within 1 tidal excursion	1	4	8		
Management practices			None	Secure l	Jnsecure		
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		(
On farm processing within the rules of the directive	No on farm pro	cessing	0				(
	Processing own	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent state	from zone or compartment of us	4				
		from Category III farm	8				
	Processing fish	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				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	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		
	Sites sharing s	taff and equipment	0	1	2		
Disinfection of equipment	Yes		0	[
between sites, use of footbaths etc	No		1				
CoGP/Regulator							
Practices in accordance	Yes		0				
with regulator or industry code of practice	No		3				
Platform access to cages	Yes		0				(
	No		2				
					Fotal Rank		20 MEDIUM

FHI 059, Version 11		Issued by: FHI	Date of is	Date of issue: 12/09/2017		
Case No:	2018-0326		Site No:	FS1091		
Sea Lice Inspection (Sea 1. Has the site experience		s in the previous 4 years?			Y	
		quivalent) fallowed synchronously	on a single y	/ear class basis?	Y	
3. Does the site have acc azamethiphos and eman can these be deployed in	cess to a range of lic nectin benzoate) as n a reasonable period mented farm manag	enced in-feed and bath sea lice me well as access to suitable biologica	edications (in Il and/or med	cluding deltamethrin, chanical control measures, and	d Y	
		pection? (Legal SSI, CoGP Annex	6)		Y	
		standard specified in the SSI and t	·	_egal SSI, CoGP Annex 6)	Y	
7. Are sea lice (<i>L. salmol</i> records are inspected?		low the suggested criteria for treatr	nent in the C	OGP during the period that	Ν	
8. Have average adult fe records are inspected?	male sea lice (<i>L. salı</i>	<i>monis</i>) numbers per fish been at a	level of 3 or	above during the period that	Y	
If yes, have these been r	eported to the Fish H	lealth Inspectorate? If no, FHI see	comment.		Y	
9. Is C. elongatus infesta	ation at a level which	is considered to cause significant	welfare probl	lems? (CoGP 4.3.81, 5.3.50)	Ν	
		stered or other actions taken when elongatus is considered to have we			Y	
11. Has any other action	been taken (where a	applicable)?			N	
12. Have therapeutic trea	atments or the action	s taken had a significant impact up	on the lice le	evels recorded?	Y	
		out in cooperation between partici where fewer populations or part po	-		Y Y	
	•	ement procedure with waypoints de nfestation?	scribing set a	actions to deal with recognise	d Y	
-		/ in relation to sea lice level and se	a lice count o	data? If no please detail	Y	
Containment Inspection	n					
•		ge due to predators in the current o	r previous pi	roduction cycles?	Ν	
2. Are measures in place	e to mitigate against t	he predation experienced on site?	(Detail belov	v)	Y	
A.D.D., M.M.L., Seal B	Blinds, Tensioned N	lets, Top Nets				
If other, detail below:		·				
3. Have escape incident	s or events been exp	perienced on or in the vicinity of the	site since th	e last FHI inspection?	Ν	
If Yes proceed with ques		•				
4. Have these been repo	rted to Scottish Minis	sters?				
5. Have these been repo	rted to local DSFB fo	orthwith (where they exist)? (CoGP	- 4.4.37, 5.4	4.17)		
6. Have these been repo	rted to the SSPO and	d local fisheries trusts forthwith (wh	ere they exis	st)? (CoGP – 4.4.37, 5.4.17)		
7. Were methods (if any)	used to recover esc	apees? If yes give detail				
8. If aill nets were deploy	red was this action a	greed with local wild fish interests a	nd was perm	nission given by Scottish		
Ministers? (Legal, CoGP	- 4.4.38, 5.4.18)		·			
		mise the risk of further escapes? (I	Not covered i	in code but could		
be considered under s	•		a dat-'l		N .	
10. Is the site inspected a	as satisfactory with re	egards to containment? If no, pleas	e detail reas	son(s)	Y	

FHI 059, Version 11	Issued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0326 Sit	e No: FS1091	
Date of Visit: 07/08/2018	Inspector: WJM	
Point of Compliance		
1. Is the farm under inspection located with If N, no further questions require completio	-	Y
Points of Compliance for Both Farm Ma		-
 Has a current farm management agreen Is the current FMAg/S available for inspectively. 		ed? Y
4. Does the FMAg/S identify the relevant fa	rm management area?	Y
5. Does the FMAg/S identify the fish farm s 6. Does the FMAg/S identify the date of con		Y Y
7. Does the FMAg/S identify the date of rev	•	Y
Arrangements for Fish Health Managem	ent	
-		dueed to the erec or
8. Does the FMAg/S identify the minimum I farm?	health standards for the stocks to be intro	duced to the area or
9. Does the FMAg/S identify the vaccination	•	
10. Does the FMAg/S identify the species of 11. Does the FMAg/S identify the maximum	•	
individual farm?		
12. Does the FMAg/S identify the arrangem fish farm in the area or the individual farm?		dead fish from any Y
Arrangements for The Management of S	ea Lice	
13. Does the FMAg/S identify arrangement	s for the sharing of data on sea lice numb	pers and treatments? Y
14. Does the FMAg/S identify the availabilit of statement?	y and the use of medicines on farms cove	
15. Does the FMAg/S identify any requirem lice on farms in the area or individual farms		
16. Does the FMAg/S identify the circumstaused on farms in the area or individual farm	-	I cleaner fish are to be Y
17. Does the FMAg/S identify the arrangem	nents for synchronous treatments on farm	is within the area? Y
Live Fish Movements		
18. Does the FMAg/S identify the circumsta area or farm?	ances when live fish may be introduced o	
19. Does the FMAg/S identify the arrangem or individual farms?	nents for the movement of live fish on and	d off sites in the area Y

Harvesting

20. Does the FMAg/S identify acceptable harvest practices on farms in the area or individual farms?	Y
Fallowing	
21. Does the FMAg/S identify the dates by which the area or individual farm will be fallow and the earliest date when a farm or area may be restocked?	Y
22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement?	Y
23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?	Y
Point of Compliance for Farm Management Agreements Only	
24. Does the farm management agreement include arrangements for persons to become, or cease to be, parties to the agreement?	Y
Management and operation	
25. Is the fish farm being managed and operated in accordance with the agreement or statement?	Y

Site No: FS1091

Case No: 2018-0326

Nature of non-compliance:

Action taken (FHI):

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

Case No:	2018-0326	Date of visit: 07/08/2018							
Site No:	FS1091	l i		Inspector:	WJM	l			
Results Summary	Freq.			Dat	te of Notificat	tion			
		Database	Insp			Writing	Insp	2 nd Insp	
				1					
Report Summary	Data	la en	and .						
Case Type REG/CNI/SLI/VMD	Date 28/08/2018	Insp W.IM	2 nd Insp AJW						
	20/00/2010		/ 10 / 1						

marine scotland science



The Scottish Salmon Company 1 Smithy Lane Lochgilphead Argyll PA31 8TA

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOFB0169SITE NOFS1091INSPECTORWarren Murray

 DATE OF VISIT
 07/08/2018

 SITE NAME
 Vacasay

 CASE NO
 20180326

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

All epidemiological units were inspected. However, a full EC inspection could not be completed as the water temperature was found to be above 14 degrees C. This site will be inspected at a later date.

Records

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

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

R10

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 2013

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory with regards to parasites, fish farm management agreements and statements and containment and escapes.

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

Signed: Fish Health Inspector

Date: 28/08/2018

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

FHI 059, Version 11	Issu	ed by: FHI	Date of issue: 12/09/2017					
Case No: 2018-0327			Date of visit: 08/08/2018					
Time spent on site: 3	Hrs	Main Inspecto	or: WJM					
Site No: FS1233 Business No: FB0169	Site Name: Business Name:	Eughlam The Scottish Salmon Compan	y					
Case Types: 1 REG	2 CNI 3 SLI	4 VMD 5	6					
Water Temp (°C): 14.3	Thermometer No:	Т274	FHI 045 completed					
Observations:	Region: WI	Water type: S	CoGP MA: W-1					
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								
	vvater tempe	rature above 14oC						

Additional Case Information:

Fish appeared in good health, a small number with white heads from recent increase in sea lice. Fish sampled for VMD looked healthy. Site in process of harvesting out which is helping to reduce sea lice numbers. Hydrolicer will be on site in near future to further reduce sea lice levels.

Early signs of gill issues reported by staff but mortality levels still low.

Site visit to be rearranged as full EC inspection could not be conducted as water temperature was above 14 degrees C. Full ECI paperwork completed.

FHI 059, Version 11			Issue	ed by: FHI		e: 12/09/2017					
Case No:	2018-0327]	Site No:	FS1233							
Date of Visit:		08/08/2018]		Inspector(s):	WJM					
1. Business/site deta	Registration/Authorisation Details 1. Business/site details summary checked by site representative? 2. Changes made to details?										
Site Details											
Total No facilities		16	Facilities sto	cked	8	No facilitie	s inspected	16			
Species	SAL	LUM									
Age group	2017 S1										
No Fish	301,233	24,011									
Mean Fish Wt	3.9 Kg	unknown									
Next Fallow Date (S	ite)	OCTOBER 2	2018	Next Input Da	ate (Site)	FEBRUAR	Y 2019				
Recent (last 4 wks)	disease prob	lems?		Y	Any escapes	(since last	visit)?	N			
If yes, detail:	AGD & PGE			•	• • •	`	,				
Movement Records	s										
1. Movement record		or inspection?						Y			
2. Date of last inspe							21/10/2015				
3. Are records comp		rectly entered?	,					Y			
4. Are movement re	cords availab	ole for dead fis	h and waste?					Y			
5. Are records comp								Y			
6. Are health certific	ates for intro	ductions (outw	vith GB) availa	ble?				N/A			
Transport Records	;										
1. Are any movement								Y			
If yes, is there a sys	tem in place	for maintenan	ce of transpor	tation records'	?			Y			
Mortality Records											
1. Mortality records	available for i	inspection?						Y			
2. How are mortalitie	es disposed o	of?			Whole fish -	Dundas Che	emicals				
If other detail:											
3. Mortality records	•	d correctly ente						Y			
4. Recent mortality (·		Wk 29 - 32: 3	3,203 (1.1%)							
5. Evidence of recer				,				N			
If yes, facility nos/no	mortality pe	r facility/no sto	ck per facility/	reason:							
6. Any other peaks in mortality during period checked?											
If yes, detail:		018 - 1% morta		due to seal pro	adation						
•								Y			
If yes, detail action:											
8. Have 'mortality events' been reported to FHI? If no, add MRT case and enter on mortality events sheet.											

Treatments and Medicines Records	
1. Recent treatments (last 4 wks)?	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:	r
6. Are medicines stored appropriately?	Y
Biosecurity Records	
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?	Y
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease	Y
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)?	Y
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	Y
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site? If no, detail:	Y
Results of Surveillance	
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	Y
2. If yes, are results available for inspection?	Y
3. Any significant results?	N
If yes, detail (if not detailed under recent disease problems).	
Records checked between: 21/10/2015 - 08/08/2018	

FHI 059, Version 11							Issued by: FHI						
	Case no:	2018-03	327	Site No:		FS1233			Date of	visit/	08/	08/2018	08/(
									Samplin				
	Priority samples:	VI		BA		PA		MG		HI			
				-									
	Time sampling	12:0	00:00	12:4	5:00		Inspecto	or:	WJM		VMD No	Э.	14
	starts/ends:		-						-				
	Environmental conditions:	1	Indoors	2		3		4		5			
	• •	LUCT						. л. — — — — — — — — — — — — — — — — — —					
	Summary samples	HIST		BA		MG		VI		PA		Total Sa	mples
	dd Fish/Pools - click												
~													
	Pool/Fish No												
	Fish nos	1	2										
	Pool Group												
	Species	SAL	SAL										
	Average weight		3.9000										
	Sex	N/A	N/A										
	Water Type	SW	SW										
0		~											
ails		Beag	Beag										
Oet		ă	B.										
К	Stock Origin	Vuia	Vuia										
Stock Details	Facility No	5	7										
0,		•	•										

08/2018 Additional Sample Information:														
						•								
0	l	Total Te	ests ass	igned	0	l								

		Issued by. I Th			Duit		. 12/09/201
Case Number:	2018-0327		Site No:	FS1233		Insp:	WJM
Date of Visit	08/08/2018			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	(
with GB) of susceptible species		novements on from equivalent zone or including third country	0	9	18	26	(
	Number of sup		0		10	14	(
Movements off	Frequency of n	novements off	0	3	6	10	1(
	Number of des		0	3	6	10	
Exposure via water		Site contacts	0	1-5	6-10		
Water contacts with other farms (holding species	disinfection or		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	1	3	6		
		or in a coastal zone with category V	1	4	8		
Management practices			None	Secure	Unsecure		
Water contacts with processors	Any processing	plant discharging into adjacent waters	0	1	2		(
On farm processing within the rules of the directive	No on farm pro	cessing	0				(
	Processing ow	n fish (re-cycling risk)	1				
	Processing fish	from MS of equivalent status	2				
	Processing fish equivalent state	from zone or compartment of us	4				
	Processing fish	from Category III farm	8				
	Processing fish	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				
Use of unpasteurised feeds	No feeding of u	inpasteurised feed	0]			(
	Feeding unpas	teurised feed	5				
Biosecurity		Number of sites	1	2 or 3	≥ 4		
Contacts with other sites	Sites operating	from single shorebase	0	1	2		1
	Sites sharing s	taff and equipment	0	1	2		1
Disinfection of equipment	Yes		0				
between sites, use of footbaths etc	No		1				
CoGP/Regulator							
Practices in accordance with regulator or industry	Yes		0				(
code of practice	No		3				
Platform access to cages	Yes		0				(
	No		2				
					Total		20
					Rank		MEDIUM

FHI 059, Version 11		Issued by: FHI		Date of is	sue: 12/09/2017
Case No:	2018-0327		Site No:	FS1233	
Sea Lice Inspection (Sea 1. Has the site experience		s in the previous 4 years?			Y
		quivalent) fallowed synchronously	on a single y	vear class basis?	Y
3. Does the site have acc azamethiphos and eman can these be deployed in	cess to a range of lic nectin benzoate) as n a reasonable period mented farm manage	enced in-feed and bath sea lice me well as access to suitable biologica	edications (in Il and/or mec	cluding deltamethrin, chanical control measures, and	t T
		pection? (Legal SSI, CoGP Annex	6)		Y
		standard specified in the SSI and t	·	egal SSI, CoGP Annex 6)	Y
7. Are sea lice (<i>L. salmol</i> records are inspected? (low the suggested criteria for treatr	nent in the C	oGP during the period that	Ν
records are inspected?	·	<i>monis</i>) numbers per fish been at a		above during the period that	Y
-		lealth Inspectorate? If no, FHI see			Υ
9. Is C. elongatus infesta	ation at a level which	is considered to cause significant	welfare probl	ems? (CoGP 4.3.81, 5.3.50)	Ν
		stered or other actions taken when elongatus is considered to have we			Y
11. Has any other action	been taken (where a	applicable)?			Ν
12. Have therapeutic trea	atments or the action	s taken had a significant impact up	on the lice le	evels recorded?	Y
		out in cooperation between partici where fewer populations or part po	-		Y Y
		ement procedure with waypoints de nfestation?	scribing set a	actions to deal with recognised	H Y
16. Does the stock on sit reasons.	e appear satisfactory	y in relation to sea lice level and se	a lice count o	data? If no please detail	Y
Containment Inspection	n				
•		ge due to predators in the current o	r previous pr	roduction cycles?	Ν
2. Are measures in place	to mitigate against t	he predation experienced on site?	(Detail below	V)	Y
A.D.D., M.M.L., Seal B	linds, Tensioned N	lets, Top Nets			
If other, detail below:					
		perienced on or in the vicinity of the	site since th	e last FHI inspection?	Ν
If Yes proceed with ques		•			_
4. Have these been repo	rted to Scottish Minis	STERS ?			
5. Have these been repo	rted to local DSFB fo	orthwith (where they exist)? (CoGP	- 4.4.37, 5.4	4.17)	
6. Have these been repo	rted to the SSPO and	d local fisheries trusts forthwith (wh	ere they exis	st)? (CoGP – 4.4.37, 5.4.17)	
7. Were methods (if any)	used to recover esc	apees? If yes give detail			
Ministers? (Legal, CoGP	- 4.4.38, 5.4.18)	greed with local wild fish interests a			
		mise the risk of further escapes? (I	Not covered i	in code but could	
be considered under s	•		1		
10. Is the site inspected a	as satisfactory with re	egards to containment? If no, pleas	e detail reas	on(S)	Y

FHI 059, Version 11 Issued	l by: FHI	Date of issue: 12/09/2017
Case No: 2018-0327 Site No: FS12	33	
Date of Visit: 08/08/2018 Inspector:	WJM	
Point of Compliance		
1. Is the farm under inspection located within a farm managem	nent area?	Y
If N, no further questions require completion.		
Points of Compliance for Both Farm Management Agreem	ents and Statements	
2. Has a current farm management agreement or statement (F	MAg/S) been prepared?	Y
 Is the current FMAg/S available for inspection? Does the FMAg/S identify the relevant farm management ar 	ea?	Y Y
5. Does the FMAg/S identify the fish farm site(s) to which it ap	olies?	Y
6. Does the FMAg/S identify the date of commencement of the7. Does the FMAg/S identify the date of review?	agreement or statement?	Y Y
Arrangements for Fish Health Management		
	the stocks to be introduced to the ar	
8. Does the FMAg/S identify the minimum health standards for farm?		
 Does the FMAg/S identify the vaccination requirements for s Does the FMAg/S identify the species of fish which may be 		Y
11. Does the FMAg/S identify the maximum stocking density o individual farm?		the Y
12. Does the FMAg/S identify the arrangements for the storage	e and disposal of any dead fish from a	any Y
fish farm in the area or the individual farm?		
Arrangements for The Management of Sea Lice		
13. Does the FMAg/S identify arrangements for the sharing of	data on sea lice numbers and treatme	ents? Y
14. Does the FMAg/S identify the availability and the use of me of statement?	edicines on farms covered by the agre	
15. Does the FMAg/S identify any requirements for the sensitivities on farms in the area or individual farms?	vity testing of available treatments for	
16. Does the FMAg/S identify the circumstances under which I used on farms in the area or individual farms?	biological controls and cleaner fish are	e to be Y
17. Does the FMAg/S identify the arrangements for synchrono	us treatments on farms within the are	a? Y
Live Fish Movements		
18. Does the FMAg/S identify the circumstances when live fish area or farm?	may be introduced or removed from	Recommendation of the second se
19. Does the FMAg/S identify the arrangements for the moven or individual farms?	nent of live fish on and off sites in the	area Y

Harvesting

20. Does the FMAg/S identify acceptable harvest practices on farms in the area or individual farms?	Y
Fallowing	
21. Does the FMAg/S identify the dates by which the area or individual farm will be fallow and the earliest date when a farm or area may be restocked?	Y
22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement?	Y
23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?	Y
Point of Compliance for Farm Management Agreements Only	
24. Does the farm management agreement include arrangements for persons to become, or cease to be, parties to the agreement?	Y
Management and operation	
25. Is the fish farm being managed and operated in accordance with the agreement or statement?	Y

Site No: FS1233

Case No: 2018-0327

Nature of non-compliance:

Action taken (FHI):

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

Case No:	2018-0327	Date of visit: 08/08/2018								
Site No:	FS1233	Inspector: WJM								
Results Summary	Freq.			Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp		
Report Summary										
Case Type REG/CNI/SLI/VMD	Date	Insp	2 nd Insp							
REG/CINI/SLI/VIVID	28/08/2018	VVJIVI	AJW							

marine scotland science



The Scottish Salmon Company 1 Smithy Lane Lochgilphead Argyll PA31 8TA

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOFB0169SITE NOFS1233INSPECTORWarren Murray

DATE OF VISIT08/08/2018SITE NAMEEughlamCASE NO20180327

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

All epidemiological units were inspected. However, a full EC inspection could not be completed as the water temperature was found to be above 14 degrees C. This site will be inspected at a later date.

Records

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

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

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

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

Mortality records were inspected and found to be adequately maintained.

R10

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

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

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

Inspection under the Animals and Animal Products (Examination for Residues and Maximum Residue Limits) (England and Scotland) Regulations 2013

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory with regards to parasites, fish farm management agreements and statements and containment and escapes.

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

Signed:

R10

Fish Health Inspector

Date: 28/08/2018

l

FHI 059, Version 11 Additional Case Information:

Sea lice levels currently above suggested criteria for treatment. White heads from sea lice damage apparent on site. AGD also confirmed on site but mortality levels remaining low with a weekly average of 0.15% for whole of site.

FHI 059, Version 11			Issu	ed by: FHI			Date of issue	e: 12/09/2017		
Case No:	2018-0328]	Site No:	FS0411]					
Date of Visit:		08/08/2018]		Inspector(s):	WJM				
Registration/Authorisation Details 1. Business/site details summary checked by site representative? 2. Changes made to details? Site Details										
Total No facilities		16	Facilities sto	icked	10	No facilitie	es inspected	16		
Species	SAL	LUM								
Age group	2017 S1	Adult								
No Fish	277,130	38,001								
Mean Fish Wt	2.6 Kg	unknown								
Next Fallow Date (S	ite)	August 2018		Next Input Da	ate (Site)	site closin	ng			
Recent (last 4 wks)	disease prob	lems?		Y	Any escapes	(since last	visit)?	N		
If yes, detail:	AGD			•		`	,			
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? 7 7 7 7 8. Are novements carried out by (or on behalf) of the business (not using a STB)? 1. Are any movements carried out by (or on behalf) of the business (not using a STB)? 1. Are a system in place for maintenance of transportation records? 9										
1. Mortality records		•						Y		
2. How are mortalitie If other detail:	es disposed (ot?			Whole fish -	Dundas Ch	iemicals			
3. Mortality records	complete and	d correctly ente	-					Y		
wk28 - 668 (0.17%), wk29 - 265 (0.07%), wk30 - 269 (0.07%), wk31 - 1198 4. Recent mortality (last 4 wks):										
5. Evidence of recent increased/atypical mortalities?										
If yes, facility nos/no mortality per facility/no stock per facility/reason:										
	· · · · · · · · · · · · · · · · · · ·									
6. Any other peaks i	-	uring period ch 017) mortality l		week jumped	to 10 27% w/	36 but then	reduced Co			
If yes, detail:	to gill issues	· · ·		week, jumpeu	10 10.27 /o WK	So but then	Heuuceu. Cat			
7. Have increased (en reported to	o vet or FHI?				N/A		
If yes, detail action:	iontol haar						aboat			
8. Have 'mortality ev	vents been re	sponed to FHI	r ii no, add N	ik i case and e	enter on morta	anty events	sneet.	Ŷ		

Treatments and Medicines Records	
1. Recent treatments (last 4 wks)?	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?	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	Y
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	Y
health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise	Y
transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of	Y
aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	Y
If no, detail:	
Results of Surveillance	
1. Has any animal health surveillance been carried out by, or on behalf of, the business?	Y
2. If yes, are results available for inspection?	Y
3. Any significant results?	Y
If yes, detail (if not detailed under recent disease problems). SAV & PRV confirmed on site March 2	.018
Records checked between: 19/10/2017 - 08/08/2018	

FHI 059, Version 11	Issued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0328	Site No:	FS0411
Sea Lice Inspection (Seawater Sites O 1. Has the site experienced sea lice prob		Y
	(or equivalent) fallowed synchronously on a single y	/ear class basis?
3. Does the site have access to a range (azamethiphos and emamectin benzoate) can these be deployed in a reasonable p	of licenced in-feed and bath sea lice medications (in) as well as access to suitable biological and/or med	cluding deltamethrin, chanical control measures, and
	or inspection? (Legal SSI, CoGP Annex 6)	Y
	uired standard specified in the SSI and the CoGP? (L	egal SSI, CoGP Annex 6) Y
	Is below the suggested criteria for treatment in the C	
	. <i>salmonis</i>) numbers per fish been at a level of 3 or a	above during the period that Y
If yes, have these been reported to the F	ish Health Inspectorate? If no, FHI see comment.	Y
9. Is C. elongatus infestation at a level w	hich is considered to cause significant welfare probl	lems? (CoGP 4.3.81, 5.3.50) N
	dministered or other actions taken when <i>L. salmonis</i> e <i>C. elongatus</i> is considered to have welfare implicat	
11. Has any other action been taken (wh	ere applicable)?	N/A
12. Have therapeutic treatments or the a	ctions taken had a significant impact upon the lice le	vels recorded? Y
	rried out in cooperation between participating farms' site, where fewer populations or part populations are	
	nagement procedure with waypoints describing set a lice infestation?	actions to deal with recognised Y
16. Does the stock on site appear satisfa reasons.	actory in relation to sea lice level and sea lice count o	data? If no please detail Y
Containment Inspection		
1. Has the site experienced equipment d	amage due to predators in the current or previous pr	roduction cycles? N
2. Are measures in place to mitigate aga	inst the predation experienced on site? (Detail below	v) Y
A.D.D., M.M.L., Tensioned Nets, Top) Nets	
If other, detail below:		
	n experienced on or in the vicinity of the site since th	ne last FHI inspection?
If Yes proceed with questions $4 - 9$. If No	· ·	
4. Have these been reported to Scottish	Ministers?	
5. Have these been reported to local DSI	FB forthwith (where they exist)? (CoGP – 4.4.37, 5.4	4.17)
	O and local fisheries trusts forthwith (where they exis	
7. Were methods (if any) used to recover	r escapees? If yes give detail	
0. If all noto ware deployed use this	on opposite loop with fight interacts and we	alapian divan by Coottish
Ministers? (Legal, CoGP – 4.4.38, 5.4.18		
	minimise the risk of further escapes? (Not covered i	n code but could
be considered under satisfactory me		
To. is the site inspected as satisfactory w	vith regards to containment? If no, please detail reas	son(s) Y

Site No: FS0411

Case No: 2018-0328

Nature of non-compliance:

Action taken (FHI):

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

Case No:	2018-0328	Date of visit: 08/08/2018							
Site No:	FS0411	Inspector: WJM							
Results Summary	Freq.		Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp	
	•								
Report Summary									
Case Type REG/SLI	Date	Insp	2 nd Insp						
REG/SLI	11/09/2018	WJM	ALW						

marine scotland science



The Scottish Salmon Company 1 Smithy Lane Lochgilphead Argyll PA31 8TA

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOFB0169SITE NOFS0411INSPECTORWarren Murray

 DATE OF VISIT
 08/08/2018

 SITE NAME
 Vuiabeag

 CASE NO
 20180328

Site Inspection

The information required for the public record of aquaculture production businesses regarding this site was verified and where necessary updated. The following records were 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 records show a mortality event had occurred in 2017 but had been reported to the FHI at the time of the event.
- Treatment and medicine records were inspected and appeared to be adequately maintained.
- The biosecurity measures plan for the site was inspected and found to be adequately maintained and implemented.
- 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 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). On this occasion, the average number of adult female *Lepeophtheirus salmonis* per fish had exceeded the suggested criteria for treatment as detailed in the Code of Good Practice. The operator of the site was taking appropriate measures to reduce the numbers of sea lice in accordance with the site specific lice management procedure.

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

Signed:

Date: 11/09/2018

Fish Health Inspector

FHI 059, Version 11	lssu	ied by: FHI		Date of issue: 12/09/2017		
Case No: 2018-0331				Date of visit: 01/08/2018		
Time spent on site:	J/A		lain Inspector	: JET		
Site No:SS0880Business No:SB0536	Site Name: Business Name:	Kerracher Kerracher Shellfis	h			
Case Types: 1 REG	23	4	5	6		
Water Temp (°C):	Thermometer No:]	FHI 045 completed		
Observations:	Region: HI	Water type:	S	CoGP MA:		
Dead/weak/abnormally behaving Clinical signs of disease observe Gross pathology observed? Diagnostic samples taken?		If yes, see additional information/clinical score sheet. If yes, see additional information/clinical score sheet. If yes, see additional information/clinical score sheet.				
UNI/REG only - if unable to carry						
	Si	te fallow				

Site not inspected as currently fallow. Site has not been stocked since first registered in 2014, the operator has been unable to source spat.

No case report issued

Case No:	2018-0331	Date of visit: 01/08/2018							
Site No:	SS0880]	Inspector: JET						
Results Summary	Freq.		Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp	
			-				+		
			-				+		
Report Summary									
Case Type	Date	Insp	2 nd Insp						
	_								
	_								
			1						

FHI 059, Version 11	lssu	ied by: FHI	Date of	issue: 12/09/2017
Case No: 2018-0335			Date of visit:	07/08/2018
Time spent on site:	10 minutes	Main	Inspector:	LW
Site No: SS0592 Business No: SB0391	Site Name: Business Name:	Polcrabhacaig Hebridean Oysters		
Case Types: 1 REG	23	4 5	6	
Water Temp (°C):	Thermometer No:		FHI 045 comple	eted
Observations:	Region: WI	Water type: S		
Dead/weak/abnormally behavin Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?		If yes, see addition	nal information/clinical sc nal information/clinical sc nal information/clinical sc	ore sheet.
UNI/REG only - if unable to carr	y out intended visit detail rea	ason below:		

Site is fallow and has been for several years (last reported production in 2014 of 1,000 Pacific oysters). Used to source Pacific oysters from Caledonian Oysters. No equipment currently in the water. Hope to start site up again in the future, but no definite plans.

Business and site details checked over the phone.

FHI 059, Version 11			lssu	ed by: FHI			Date of issu	ie: 12/09/2017
Case No:	2018-0335		Site No:	SS0592]			
Date of Visit:		07/08/2018			Inspector(s):	ALW]
Registration/Autho 1. Business/site deta 2. Changes made to	ails summary		ite representa	ative?			Y Y]
Site Details								
Total No facilities		0	Facilities sto	cked	0	No facilitie	s inspected	0
Species Age group No Fish								
Mean Fish Wt								
Next Fallow Date (S	ite)	Currently falle	ow	Next Input Da	ate (Site)	No definite	e plans	
Recent (last 4 wks) o If yes, detail:	disease prob	lems?		N/A	Any escapes	(since last	visit)?	N/A
Movement Records	s							
1. Movement record	s available fo	or inspection?						N/A
2. Date of last inspect		actly antorod?					Not checke	d N/A
 Are records comp Are movement records 		•						N/A
5. Are records comp								N/A
6. Are health certific	ates for intro	ductions (outw	rith GB) availa	able?				N/A
Transport Records	;							
1. Are any movemer If yes, is there a syst								
Mortality Records								
1. Mortality records a		•						N/A
2. How are mortalitie If other detail:	es disposed o	of?						
3. Mortality records	complete and	correctly ente	ered?					N/A
4. Recent mortality (•		Site fallow					
5. Evidence of recer	nt increased/a	atypical mortal	ities?					N/A
If yes, facility nos/no	mortality per	facility/no sto	ck per facility	/reason:				
6. Any other peaks in	n mortality du	uring period ch	ecked?					N/A
If yes, detail:								
7. Have increased (u	unexplained)	mortalities bee	en reported to	o vet or FHI?				N/A
If yes, detail action: 8. Have 'mortality ev	ents' been re	ported to FHI	? If no, add M	IRT case and e	enter on morta	lity events s	sheet	N/A
of flavo monality of	ond boonin							

Treatments and Medicines Records	
1. Recent treatments (last 4 wks)?	
If yes, detail:	
If other, detail:	
2. Medicines records available for inspection?	
3. Are records complete and correctly entered?	
4. Are fish in a withdrawal period?	
5. If yes, what treatment(s)?	
If other, detail:	
6. Are medicines stored appropriately?	
Biosecurity Records	
1. Biosecurity records available for inspection?	
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	
3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any	
increased (unexplained) mortality at the site been included?	
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease	
is detected been included and how and when that will be notified to Scottish Ministers?	
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?	
6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?	
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	
8. Have the biosecurity procedures been adequately implemented on site?	
If no, detail:	
Results of Surveillance	
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: 28/7/2009 - 7/8/18	

Case No:	2018-0335	Date of visit: 07/08/2018						
Site No:	SS0592	Inspector: ALW						
Results Summary	Freq.	Date of Notification						
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
Report Summary								
Case Type REG	Date	Insp	2 nd Insp					
REG	07/08/2018	ALW	PMM					





Hebridean Oysters 7 Bornish South Uist HS8 5SA

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NoSB0391SITE NoSS0592INSPECTORAndrea Warwick

DATE OF VISIT07/08/2018SITE NAMEPolcrabhacaigCASE NO20180335

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

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

A

Signed:

Fish Health Inspector

Date: 07/08/2018

FHI 059, Version 11	lss	sued by: FHI	Date of issue: 12/09/2017
Case No: 2018-0336			Date of visit: 07/08/2018
Time spent on site:	10 minutes	Main Insp	pector: ALW
Site No: SS0655 Business No: SB0391	Site Name: Business Name:	Eilean Mhic Eachain Hebridean Oysters	
Case Types: 1 REG	23	4 5	6
Water Temp (°C):	Thermometer No:		FHI 045 completed
Observations:	Region: WI	Water type: S	CoGP MA:
Dead/weak/abnormally behavin Clinical signs of disease observ Gross pathology observed? Diagnostic samples taken?		If yes, see additional	information/clinical score sheet. information/clinical score sheet. information/clinical score sheet.
UNI/REG only - if unable to car	ry out intended visit detail re	eason below:	

Site is fallow and has been for several years (last reported production in 2014 of 0.5 tonnes of mussels). Had very good spatfall when lines initially placed in water a few years ago, but mainly sea squirts since then. Had 120m of lines, but no equipment currently in the water.

Will try again with lines to see if get mussel spatfall. Looking at options for pasteurisation facility for packing mussels if site becomes viable.

Business and site details checked over the phone.

FHI 059, Version 11			lssu	ed by: FHI			Date of issu	ie: 12/09/2017
Case No:	2018-0336]	Site No:	SS0655]			
Date of Visit:		07/08/2018			Inspector(s):	ALW]
Registration/Autho 1. Business/site deta 2. Changes made to	ails summary		ite representa	ative?			Y Y	}
Site Details								
Total No facilities Species		0	Facilities sto	cked	0	No facilitie	s inspected	0
Age group No Fish								
Mean Fish Wt								
Next Fallow Date (S	ite)	Currently falle	OW	Next Input Da	ate (Site)	No definite	plans	
Recent (last 4 wks) o If yes, detail:	disease prob	lems?		N/A	Any escapes	(since last	visit)?	N/A
Movement Records	S							
1. Movement record		or inspection?						N/A
2. Date of last inspec							Not checked	
3. Are records comp		•						N/A
4. Are movement ree								N/A N/A
 5. Are records comp 6. Are health certification 		•		able?				N/A
Transport Records								
1. Are any movemer If yes, is there a syst								<u> </u>
Mortality Records								
1. Mortality records a	available for i	nspection?						N/A
2. How are mortalitie	es disposed c	of?						
If other detail:								N/A
 Mortality records of Recent mortality (•	-	Site fallow					IN/A
5. Evidence of recen	· · · · ·							N/A
If yes, facility nos/no		••		/reason:				
	6 P. 1	· · · · ·	1 10					
 Any other peaks in If yes, detail: 	n mortality du	ring period ch	ecked?					N/A
7. Have increased (u	unexplained)	mortalities bee	en reported to	o vet or FHI?				N/A
If yes, detail action:	• •		•					
8. Have 'mortality ev	ents' been re	ported to FHI?	? If no, add M	IRT case and e	enter on morta	llity events s	sheet.	N/A

Treatments and Medicines Records	
1. Recent treatments (last 4 wks)?	
If yes, detail:	
If other, detail:	
2. Medicines records available for inspection?	
3. Are records complete and correctly entered?	
4. Are fish in a withdrawal period?	
5. If yes, what treatment(s)?	
If other, detail:	
6. Are medicines stored appropriately?	
Biosecurity Records	
 Biosecurity records available for inspection? Has the manner and frequency of mortality removal, recording and safe disposal been considered? 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? If yes, detail (if not detailed under recent disease problems).	
Records checked between: 3/6/15 - 7/8/18	

Case No:	2018-0336			Date of visit:	07/08/2018			
Site No:	SS0655			Inspector:	ALW			
Results Summary	Freq.	-		Da	te of Notificat	tion		
Results Summary	r req.	Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
Report Summary								
Case Type	Date	Insp	2 nd Insp					
REG	07/08/2018	ALW	PMM					





Hebridean Oysters 7 Bornish South Uist HS8 5SA

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NoSB0391SITE NoSS0655INSPECTORAndrea Warwick

DATE OF VISIT07/08/2018SITE NAMEEilean Mhic EachainCASE NO20180336

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

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

Signed:

R10

Fish Health Inspector

Date: 07/08/2018

FHI 059, Version 11	Issued b	y: FHI	Date of issue: 12/09/2017
Case No: 2018-0337			Date of visit: 14/08/2018
Time spent on site: 2 hou	urs	Main Inspecto	or: ASM
		tir Mhor Bay errera Oysters	
Case Types: 1 ECI 2	33	45	6
Water Temp (°C): 12 T	hermometer No:	T172	FHI 045 completed
Observations: R	egion: ST	Water type: S	Cogp MA:
Dead/weak/abnormally behaving fish Clinical signs of disease observed? Gross pathology observed? Diagnostic samples taken?	n present? N N 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	t intended visit detail reason	below:	

All shellfish sent to Loch Fyne Oysters for consumption and depuration, if required.

Water categorisation changes throughout the year from A to C depending on environmental conditions. Usually worse in the summer

Site was rarely visited by the manager from 2014. The site was nearly sold but the manager has recently decided to input new stock to increase production. Some oysters have been on site for ten years

Surveillance frequency: Depuration facility for Caledonian Oysters in the same management area

FHI 059, Version 11			lssu	ed by: FHI			Date of issu	ie: 12/09/2017
Case No:	2018-0337]	Site No:	SS0730				
Date of Visit:		14/08/2018			Inspector(s):	ASM		1
Registration/Author 1. Business/site deta 2. Changes made to	ails summary		te representa	ative?			Y N]
Site Details								
Total No facilities		50	Facilities sto	cked	10	No facilitie	es inspected	50
	CGI	CGI						
Age group	1 year old	10+ year old						
No Fish	20,500	4,500						
Mean Fish Wt	1.2g	45-90g						
Next Fallow Date (Si	te)	No plans		Next Input Da	ate (Site)	Spring 201	19	
Recent (last 4 wks) o	lisease prob	lems?		N	Any escapes	s (since last	visit)?	N/A
If yes, detail:								
Movement Records	5							
1. Movement records	s available fo	or inspection?						Y
2. Date of last inspec							20/08/2012	
3. Are records compl		•						Y
4. Are movement rec								N/A
5. Are records compl				-kla2				N/A
6. Are health certifica	ates for intro	ductions (outw	Ith GB) availa	ible?				N/A
Transport Records								
1. Are any movemen		· ·		•	- /			
If yes, is there a system	em in place	for maintenance	ce of transpor	tation records	?			
Mortality Records								
1. Mortality records a	available for	inspection?						N/A
2. How are mortalitie	s disposed o	of?			Other (detail))		
		es observed						
3. Mortality records c	•	· · ·						N/A
4. Recent mortality (I			No mortality	observed				
5. Evidence of recent								N/A
If yes, facility nos/no	mortality pe	r facility/no sto	ck per facility/	/reason:				
6. Any other peaks in	n mortality dr	uring period ch	ecked?					N/A
If yes, detail:								
7. Have increased (u	inexplained)	mortalities bee	en reported to	vet or FHI?				N/A
If yes, detail action:								
8. Have 'mortality eve	ents' been re	eported to FHI?	? If no, add M	RT case and e	enter on morta	ality events s	sheet.	N/A

Treatments and Medicines Records	
1. Recent treatments (last 4 wks)?	
If yes, detail:	
If other, detail:	
2. Medicines records available for inspection?	
3. Are records complete and correctly entered?	
4. Are fish in a withdrawal period?	
5. If yes, what treatment(s)?	
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?	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	Y
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)?	Y
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	Y
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?	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: 20/08/12 - 14/08/18	

-HI 059, Version 11	Issued by: FHI			Date	of issue: 12/09
Case Number:	2018-0337 Site No:	SS073	0		
Date of Visit	14/08/2018 Inspector:	ASM]	
Number of Susceptik	ble species on site			-	
-	ies present = <u>LOW</u> risk				
f susceptible species	present, score for each pathogen		No	Yes	
	Susceptible to Bonamia ostrea (OED)		0	25	
	Susceptible to Marteilia refringens (OED, MED)		0	3	
	Susceptible to OsHV (CGI)		0	3	3
Sites within a tidal ex	xcursion	1	2-5	>6	
Site contacts	Number of sites holding susceptible species within a tidal				
	excursion	0	2	10	0
_ive shellfish moven	nents	0	1-2	>3	
Movements on	Frequency of movements on from equivalent MS	0	5	10	0
	Frequency of movements on from equivalent zone or				
	compartment including third country	0	10	20	
	Number of suppliers	0	5	10	
Movements off	Frequency of movements off within MSS Management				
	Areas	0	1	2	
	Frequency of movements off outwith MSS Management				
	riequency of merennence on <u>eachar</u> mee management				
	Areas	0	3	6	3
	· ·	0 0	3 3	6 6	3 3
Management practices	Areas		3 Secure (effluent		
-	Areas Number of destinations	0	3 Secure (effluent	6 Unsecure (no effluent	
practices	Areas Number of destinations Depuration of stock from own sites within MSS	0 None	3 Secure (effluent treatment)	6 Unsecure (no effluent treatment)	3
Water contacts with	Areas Number of destinations Depuration of stock from own sites within MSS management area	0	3 Secure (effluent	6 Unsecure (no effluent	
Water contacts with	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within	0 None 0	3 Secure (effluent treatment) 1	6 Unsecure (no effluent treatment) 2	3 0
Water contacts with	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area	0 None	3 Secure (effluent treatment)	6 Unsecure (no effluent treatment)	3
Water contacts with	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management	0 None 0	3 Secure (effluent treatment) 1 2	6 Unsecure (no effluent treatment) 2 6	3 0 6
Water contacts with	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area	0 None 0	3 Secure (effluent treatment) 1	6 Unsecure (no effluent treatment) 2	3 0
Water contacts with	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management	0 None 0	3 Secure (effluent treatment) 1 2	6 Unsecure (no effluent treatment) 2 6	3 0 6
Water contacts with depuration facilities Biosecurity	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area	0 None 0 0	3 Secure (effluent treatment) 1 2 4	6 Unsecure (no effluent treatment) 2 6 8	3 0 6
Water contacts with depuration facilities Biosecurity	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites	0 None 0 0 0	3 Secure (effluent treatment) 1 2 4 2 or 3	6 Unsecure (no effluent treatment) 2 6 8 ≥ 4	3 0 6 0
Water contacts with depuration facilities Biosecurity Contacts with other	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase	0 None 0 0 0 1	3 Secure (effluent treatment) 1 2 4 4 2 or 3 1	6 Unsecure (no effluent treatment) 2 6 8 ≥ 4 2	3 0 6 0
Water contacts with depuration facilities Biosecurity Contacts with other	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase	0 None 0 0 0 1	3 Secure (effluent treatment) 1 2 4 2 or 3 1 1	6 Unsecure (no effluent treatment) 2 6 8 ≥ 4 2 5	3 0 6 0
Water contacts with depuration facilities Biosecurity Contacts with other	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase	0 None 0 0 0 1 0	3 Secure (effluent treatment) 1 2 4 2 or 3 1 1	6 Unsecure (no effluent treatment) 2 6 8 ≥ 4 2 5	3 0 6 0
Water contacts with depuration facilities Biosecurity Contacts with other	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase Sites sharing staff and equipment	0 None 0 0 0 1 0	3 Secure (effluent treatment) 1 2 4 2 or 3 1 1 1 Yes 0	6 Unsecure (no effluent treatment) 2 6 8 ≥ 4 2 5 No	3 0 6 0 0
Water contacts with depuration facilities Biosecurity Contacts with other	Areas Number of destinations Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase Sites sharing staff and equipment	0 None 0 0 0 1 0	3 Secure (effluent treatment) 1 2 4 2 or 3 1 1 1 Yes	6 Unsecure (no effluent treatment) 2 6 8 ≥ 4 2 5 No	3 0 6 0 0

Case No:	2018-0337			Date of visit:	14/08/2018			
Site No:	SS0730			Inspector:	ASM	l		
Results Summary	Freq.			Dat	te of Notificat			
		Database	Insp	Phone	Insp	Writing	Insp	2 nd Insp
Report Summary Case Type ECI								
Case Type	Date	Insp	2 nd Insp					
ECI	30/08/2018	ASM	AJW					

marine scotland science



Kerrera Oysters Ardentrive Cottage Isle of Kerrera by Oban, Argyll PA34 4SX

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOSB0466SITE NOSS0730INSPECTORAndy Mayes

 DATE OF VISIT
 14/08/2018

 SITE NAME
 Oitir Mhor Bay

 CASE NO
 20180337

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

The surveillance frequency category of the site was assessed as low. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every fourth 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.

No mortality had been observed on site since the last inspection by Marine Scotland.

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.

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



Date: 30/08/18

FHI 059, Version 11	1	Issued by: FHI		Date of issue: 12/09/2017
Case No: 2018-0338			Date of	of visit: 15/08/2018
Time spent on site: 2	hours	Ma	in Inspector:	ASM
Site No: SS0326 Business No: SB0216	Site Name: Business Name:	Site 1 Ballimore Estate		
Case Types: 1 ECI 2	23	4 5	6	
Water Temp (°C): 12.5	Thermometer No:	T172	FHI 04	15 completed
Observations:	Region: ST	Water type:	S Co	GP MA:
Dead/weak/abnormally behaving Clinical signs of disease observed Gross pathology observed? Diagnostic samples taken?	•	N If yes, see addi	tional information/	clinical score sheet. clinical score sheet. clinical score sheet.
UNI/REG only - if unable to carry	out intended visit detail	l reason below:		

Will soon be moving old Seapa baskets off the site as the manager finds them inefficient to use.

Has recently moved oysters onto the site as the manager is thinking of increasing production soon.

The manager only sells to local restaurants and depurates oysters off site. Only stock from the Ballimore Estate is depurated at the facility.

No mortality observed, so no mortality record kept.

FHI 059, Version 11			lss	sued by: FHI			Date of issu	ie: 12/09/2017
Case No:	2018-0338		Site No:	SS032	26			
Date of Visit:		15/08/201	18		Inspector(s)	ASM		1
Registration/Autho 1. Business/site deta 2. Changes made to	ails summar		site represer	ntative?			Y Y]
Site Details								
Total No facilities		68	Facilities s	tocked	28	No facilitie	s inspected	68
Species	CGI	CGI	CGI	CGI				
Age group	1 year	15+ year	3 years	4 years				
No Fish	80,000	1,000	7,500	7,500				
Mean Fish Wt	5g	200g	60g	90g				
Next Fallow Date (S	ite)	No plans		Next Input I	Date (Site)	Summer 2	019	
Recent (last 4 wks)	disease prot	olems?			N Any escapes	s (since last	visit)?	N
If yes, detail:					rany occuped		violty.	
Movement Records	s							
1. Movement record		or inspection	2					Y
2. Date of last inspe			•				19/09/2012	
3. Are records comp		rectly entere	d?					Y
4. Are movement re	cords availa	ble for dead f	fish and waste	e?				N/A
5. Are records comp								N/A
6. Are health certific	ates for intro	oductions (ou	twith GB) ava	ailable?				N/A
Transport Records	;							
1. Are any movemer	nts carried o	ut by (or on b	ehalf) of the	business (not u	using a STB)?			
If yes, is there a sys	tem in place	for maintena	ance of transp	ortation record	ls?			
Mortality Records								
1. Mortality records	available for	inspection?						N/A
2. How are mortalitie	es disposed	of?			Other (detail)		
If other detail:	Left on the							
3. Mortality records	•	d correctly er						N/A
4. Recent mortality (· · · · · ·		None obse	erved				
5. Evidence of recer		· ·		the drag a comp				N/A
If yes, facility nos/no	monality pe	er raciiity/no s		ity/reason.				
6. Any other peaks i	n mortality d	luring period	checked?					N/A
If yes, detail:		01						
7. Have increased (u	unexplained) mortalities b	peen reported	to vet or FHI?				N/A
If yes, detail action:	antol barro			MDT	l antor ere t		h e et	N1/A
8. Have 'mortality ev	ents been r	eported to FI	H? If no, add	MRT case and	a enter on morta	ality events s	sneet.	N/A

Treatments and Medicines Records	
1. Recent treatments (last 4 wks)?	
If yes, detail:	
If other, detail:	
2. Medicines records available for inspection?	
3. Are records complete and correctly entered?	
4. Are fish in a withdrawal period?	
5. If yes, what treatment(s)?	
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?	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?	ľ
4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease	Y
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)?	Y
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?	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?	Ν
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: 19/09/12 - 15/08/18	

HI 059, Version 11	Issued by: FHI			Date	of issue: 12
Case Number:	2018-0338 Site No:	SS032	6		
Date of Visit	15/08/2018 Inspector:	ASM]	
Number of Susceptil	ble species on site				
	ies present = <u>LOW</u> risk				
f susceptible species	present, score for each pathogen		No	Yes	
	Susceptible to Bonamia ostrea (OED)		0	25	
	Susceptible to Marteilia refringens (OED, MED)		0	3	
	Susceptible to OsHV (CGI)		0	3	3
Sites within a tidal e	xcursion	1	2-5	>6	
Site contacts	Number of sites holding susceptible species within a tidal				
	excursion	0	2	10	0
Live shellfish mover	nents	0	1-2	>3	
Novements on	Frequency of movements on from equivalent MS	0	5	10	0
	Frequency of movements on from equivalent zone or				
	compartment including third country	0	10	20	
	Number of suppliers	0	5	10	
Acueronte off					
Movements off	Frequency of movements off <u>within</u> MSS Management Areas	0	1	2	1
	Frequency of movements off outwith MSS Management				
	Areas	0	3	6	
		-	-		
	Number of destinations	0	3	6	3
Management practices	Number of destinations	0			3
Water contacts with		0	3 Secure (effluent	6 Unsecure (no effluent	3
oractices	Number of destinations Depuration of stock from own sites within MSS management area	0	3 Secure (effluent	6 Unsecure (no effluent	3
Water contacts with	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within	0 None	3 Secure (effluent treatment) 1	6 Unsecure (no effluent treatment) 2	
Water contacts with	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area	0 None	3 Secure (effluent treatment)	6 Unsecure (no effluent treatment)	
Water contacts with	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within	0 None	3 Secure (effluent treatment) 1	6 Unsecure (no effluent treatment) 2	
vater contacts with depuration facilities	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management	0 None 0	3 Secure (effluent treatment) 1 2	6 Unsecure (no effluent treatment) 2 6	
Water contacts with depuration facilities Biosecurity	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites	0 None 0 0	3 Secure (effluent treatment) 1 2 4	6 Unsecure (no effluent treatment) 2 6 8	
vater contacts with depuration facilities	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area	0 None 0 0 0	3 Secure (effluent treatment) 1 2 4 2 or 3	6 Unsecure (no effluent treatment) 2 6 8 8	2
Water contacts with depuration facilities	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase	0 None 0 0 0 1	3 Secure (effluent treatment) 1 2 4 4 2 or 3 1	6 Unsecure (no effluent treatment) 2 6 8 ≥ 4 2	2
Water contacts with depuration facilities	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase	0 None 0 0 0 1	3 Secure (effluent treatment) 1 2 4 2 or 3 1 1	6 Unsecure (no effluent treatment) 2 6 8 ≥ 4 2 5	2
Water contacts with depuration facilities	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase	0 None 0 0 0 1 0	3 Secure (effluent treatment) 1 2 4 2 or 3 1 1	6 Unsecure (no effluent treatment) 2 6 8 ≥ 4 2 5	2
Water contacts with depuration facilities	Depuration of stock from own sites within MSS management area Depuration of stock from other businesses sites within MSS management area Depuration of stock from sites outwith MSS management area Number of sites Sites operating from single shorebase Sites sharing staff and equipment	0 None 0 0 0 1 0	3 Secure (effluent treatment) 1 2 4 2 or 3 1 1 1 Yes	6 Unsecure (no effluent treatment) 2 6 8 ≥ 4 2 5 No	2 0 0

Case No:	2018-0338	Date of visit: 15/08/2018						
Site No:	SS0326	Inspector: ASM						
Results Summary	Freq.	Date of Notification						
		Database	Insp		Insp	Writing	Insp	2 nd Insp
Report Summary Case Type	Date	Insp	2 nd Insp					
ECI	30/08/2018	ASM	AJW					
	ļ							
	<u> </u>							

marine scotland science



Ballimore Estate Otter Ferry Tighnabruaich Argyll PA21 2DH

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NOSB0216SITE NOSS0326INSPECTORAndy Mayes

 DATE OF VISIT
 15/08/2018

 SITE NAME
 Site 1

 CASE NO
 20180338

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

Records

The surveillance frequency category of the site was assessed as low. An inspection under the Aquatic Animal Health (Scotland) Regulations 2009 will be conducted every fourth 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.

No mortality had been observed on site since the last inspection by Marine Scotland.

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.

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



Date: 30/08/18