

Case No:	2020-0444		Date of visit:	19/10/2020	
Time spent on site:	2 hours		Main Inspector:	[REDACTED]	
Site No:	SS0893	Site Name:	Keoldale Kyle of Durness		
Business No:	SB0539	Business Name:	Cowrie Associates Ltd		
Case Types:	1 REG	2 STS	3	4	5
Water Temp (°C):	11.6	Thermometer No:	T155	FHI 045 completed	
Observations:	Region:	HI	Water type:	S	CoGP MA
Dead/weak/abnormally behaving fish present?	N/A	If yes, see additional information/clinical score sheet.			
Clinical signs of disease observed?	N/A	If yes, see additional information/clinical score sheet.			
Gross pathology observed?	N/A	If yes, see additional information/clinical score sheet.			
Diagnostic samples taken?	Y				
UNI/REG only - if unable to carry out intended visit detail reason below:					
Tide was not low enough for all facilities to be inspected.					

Additional Case Information:

Remote paperwork completed by [REDACTED], site visit and sample collection completed by [REDACTED]

Only natives oysters in the ortaks, operator may remove these from the site.

Upon arrival at site tide was too high for all facilities to be inspected so ECI could not be completed. REG conducted instead.

Facilities that were inspected appeared clean with minimal fouling. No mortality observed.

150 Native oysters were collected for statutory sampling , testing for Bonamia

Case No: 2020-0444

Site No: SS0893

Date of Visit: 19/10/2020

Inspector(s):

Registration/Authorisation Details

- 1. Business/site details summary checked by site representative? Y
- 2. Changes made to details? Y

Site Details (include cleaner fish for all sections)

Total No facilities	3800 ortacs and trestles	Facilities stocked			1000 trestles and 10 ortaks	No facilities inspected	20
Species	OED	CGI	CGI	CGI	CGI		
Age group	2015	2017	2018	2019	2020		
No Fish	~500	150,000	450,000	450,000	450,000		
Mean Fish Wt	10 to 40g	60g	35 to 40g	10 to 15g	2 to 5g		
Next Fallow Date (Site)	ongoing			Next Input Date (Site)		May 2021	
Recent (last 4 wks) disease problems?				N	Any escapes (since last visit)?	N	
If yes, detail:							

Movement Records

- 1. Movement records available for inspection? Y
- 2. Date of last inspection: 04/11/2019
- 3. Are records complete and correctly entered? Y
- 4. Are movement records available for dead fish and waste? N/A
- 5. Are records complete and correctly entered? N/A
- 6. Are health certificates for introductions (outwith GB) available? Y

Transport Records

- 1. Are any movements carried out by (or on behalf) of the business (not using a STB)?
- If yes, is there a system in place for maintenance of transportation records?

Mortality Records

- 1. Mortality records available for inspection? Y
- 2. How are mortalities disposed of? Other (detail)
- If other detail: empty shells crushed and fed to chickens or used on paths/roads
- 3. Mortality records complete and correctly entered? Y
- 4. Recent mortality (last 4 wks): 200 post cleaning in the last four weeks
- 5. Evidence of recent increased/atypical mortalities? N
- If yes, facility nos/no mortality per facility/no stock per facility/reason:
- 6. Any other peaks in mortality during period checked? N/A
- If yes, detail:
- 7. Have increased (unexplained) mortalities been reported to vet or FHI? N/A
- If yes, detail action:
- 8. Have 'mortality events' been reported to FHI? If no, enter details on mortality events sheet. N/A

Treatments and Medicines Records

1. Recent treatments (see comment)?	<input type="checkbox"/>
If yes, detail:	<input type="text"/>
If other, detail:	<input type="text"/>
2. Medicines records available for inspection?	<input type="checkbox"/>
3. Are records complete and correctly entered?	<input type="checkbox"/>
4. Are fish in a withdrawal period?	<input type="checkbox"/>
5. If yes, what treatment(s)?	<input type="text"/>
If other, detail:	<input type="text"/>
6. Are medicines stored appropriately?	<input type="checkbox"/>

Biosecurity Records

1. Biosecurity records available for inspection?	<input type="checkbox"/>	Y
2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?	<input type="checkbox"/>	Y
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?	<input type="checkbox"/>	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?	<input type="checkbox"/>	Y
5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher health status, certification if required)?	<input type="checkbox"/>	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.)?	<input type="checkbox"/>	Y
7. Is documentation available regarding the measures in place to maintain the physical containment of aquaculture animals held on site?	<input type="checkbox"/>	Y
8. Have the biosecurity procedures been adequately implemented on site?	<input type="checkbox"/>	
If no, detail:	<input type="text"/>	

Results of Surveillance

1. Has any animal health surveillance been carried out by, or on behalf of, the business?	<input type="checkbox"/>	N
2. If yes, are results available for inspection?	<input type="checkbox"/>	
3. Any significant results?	<input type="checkbox"/>	
If yes, detail (if not detailed under recent disease problems).	<input type="text"/>	

Records checked between:	<input type="text" value="04/11/2019-19/10/2020"/>
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Case no: Site No: Date of visit/
 Sampling:

Priority samples: VI BA PA MG HI

Time sampling starts/ends: Inspector: VMD No.

Environmental conditions: 1 2 3 4 5

Summary samples HIST BA MG VI PA Total Samples

Add Fish/Pools - click

Pool/Fish No	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12
Fish nos	1	2	3	4	5	6	7	8	9	10	11	12
Pool Group												
Species	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED
Average weight	mixed	mixed	mixed	mixed	mixed	mixed	mixed	mixed	mixed	mixed	mixed	mixed
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		Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay
	Stock Origin	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay
Facility No												

10/2020 Additional Sample Information:
 F1-150 also sampled for histology - Samples to be logged following PCR test. MG storage samples is for Marteilia

150 Total Tests assigned 3

F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26	F27	F28
13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED	OED
mixed	mixed	mixed	mixed	mixed	mixed	mixed	mixed	mixed	mixed	mixed	mixed	mixed	mixed	mixed	mixed
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW
Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay	Morecabe Bay

Case Number:	2020-0444	Site No:	SS0893
Date of Visit	19/10/2020	Inspector:	
Number of Susceptible species on site			
If no susceptible species present = LOW risk			
If 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
Sites within a tidal excursion			
		1	2-5
			>6
Site contacts	Number of sites holding susceptible species within a tidal excursion	0	2
			10
			0
Live shellfish movements			
		0	1-2
			>3
Movements on	Frequency of movements on from equivalent MS	0	5
	Frequency of movements on from equivalent zone or compartment including third country	0	10
	Number of suppliers	0	5
			10
			0
Movements off	Frequency of movements off <u>within</u> MSS Management Areas	0	1
	Frequency of movements off <u>outwith</u> MSS Management Areas	0	3
	Number of destinations	0	3
			6
			3
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
	Depuration of stock from other businesses sites within MSS management area	0	2
	Depuration of stock from sites outwith MSS management area	0	4
			2
			6
			8
			0
			0
			0
Biosecurity			
	Number of sites	1	2 or 3
			≥ 4
Contacts with other sites	Sites operating from single shorebase	0	1
	Sites sharing staff and equipment	0	1
			5
		Yes	No
	Disinfection of equipment between sites, use of footbaths etc	0	2
			0
			2
			0
Total Risk			40
			HIGH

Site No: SS0893

Case No: 2020-0444

Nature of non-compliance:

Action taken (FHI):

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



2020-0444-
attach.pdf

Note - attachments file must be saved to ARC folder as PDF with correct name format e.g. 2012-0123-attach or 2012-0123-attach2 etc.

MARINE SCOTLAND - SCIENCE RECORD SHEET	HI 001 Issue No Issued By Date of this Issue:	Page 2 of 2 8.00 [Redacted]
Condition of Shellfish Samples		

Case number: 2020-0444

Test to assign	Fish numbers
HI-SHELLFISH (this test locs Histology & Mogen storage confirmatory samples)	
BA-BAS-Other	
BA-TSA & NaCl-Other	
MG-OSHV	
Other (detail LIMS test name e.g. MG-BON if samples are to be primary screened)	MG-BON, MG-STORAGE MG-DINAPREP, MG-EN-DWA

Signed Analyst: [Redacted]

Date: 21/10/20
21/10/20

MARINE SCOTLAND - SCIENCE RECORD SHEET	HI 001 Issue No Issued By Date of this Issue:	Page 1 of 2 8.00 20/04/2020
Condition of Shellfish Samples		

Case number: 2020-0444 Site number: 550813

Shellfish species: OED Number of live shellfish: 150

Date of receipt: 21, 10, 20 Time of receipt: 09:00

Date of sampling: 21, 10, 20 Time sampling ended: 19:00

Dawsons batch Number: 20492

Condition of samples on receipt:
 Icepacks frozen at time of sampling?
 F207 - SYDNEY + PM12
 F117 - Foul colour, oyster shellfish + film.
 F121 - Shellfish + film. Plate taken.
 F127 - Shellfish + sand. Plate taken.
 F139 - Grits and shellfish shellfish. Plate taken.
 F85 - Small shellfish oyster. Plate taken.
 F17-298 - [Redacted]
 F99-100 - [Redacted]
 F101-150 - [Redacted]
 F85-90 - [Redacted]
 F76-84 - [Redacted]
 F91-93 - [Redacted]
 F94-97 - [Redacted]

Dead shells IIII

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8.00

20/04/2020

HI 001 Issue No Issued By Date of this Issue:

MARINE SCOTLAND - SCIENCE RECORD SHEET

Condition of Shellfish Samples

Case number: 2020-0044 Site number: 550873

Shellfish species: OED Number of live shellfish: 150

Date of receipt: 21, 10, 20 Time of receipt: 09:00

Date of sampling: 21, 10, 20 Time sampling ended: 19:00

Davidsons Batch Number: 20192

Condition of samples on receipt:

keepsacks frozen at time of sampling?

F001 - V.N.W.

F001-003 -

F004-005

~~F001-075~~

F5-45 -

F46-75 -

Signed Analyst:

Date:

21/10/2020

21/10/2020

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8.00

20/04/2020

HI 001 Issue No Issued By Date of this Issue:

MARINE SCOTLAND - SCIENCE RECORD SHEET

Condition of Shellfish Samples

Case number: 2020-0144

Test to assign Fish numbers

HI-SHELLFISH (this test logs Histology & Moigen storage confirmatory samples)

BA-BAS-Other

BA-TSA & NaCl-Other

MG-OSHV

Other (detail LIMS test name e.g. MG-BON if samples are to be primary screened)

[REDACTED]
Cowrie Associates Ltd
Easter Balfreish
Galcantray
Cawdor Nairn
IV12 5XY
[REDACTED]

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0539	DATE OF VISIT	19/10/2020
SITE No	SS0893	SITE NAME	Keoldale Kyle of Durness
INSPECTOR	[REDACTED]	CASE No	20200444

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.

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

On this occasion, the site inspection could not be conducted as the tide was not low enough for the inspector to gain access to all of the facilities on site. This inspection will be rescheduled for a later date.

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 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.



Signed:

Date: 26/10/2020

Fish Health Inspector

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

[REDACTED]
Cowrie Associates Ltd
Easter Balfreish
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[REDACTED]

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS No	SB0539	DATE OF VISIT	19/10/2020
SITE No	SS0893	SITE NAME	Keoldale Kyle of Durness
INSPECTOR	[REDACTED]	CASE No	20200444

Statutory test

Keoldale Kyle of Durness was inspected and statutory samples were obtained. One hundred and fifty native oysters (*Ostrea edulis*) were tested for the presence of *Bonamia ostreae* as part of the epidemiological investigation following confirmation of the parasite at a site which Keoldale supplied. Movement restrictions were initially applied to the site and have since been removed.

High water levels caused by strong tides at the site during the visit meant only a number of facilities could be inspected. No clinical signs of disease were observed and no increased mortality was observed amongst animals inspected

Samples

A total of 150 native oysters (*Ostrea edulis*) were collected and tested for the presence of *Bonamia ostreae*.

Results

Molecular genetics: Tissue samples were tested for segments of DNA indicative of the presence of the *Bonamia* spp. using real-time PCR (QPCR). All samples returned negative for *Bonamia ostreae*.

Histology: Tissue samples of gill, mantle and digestive gland were taken from F1 - 150. The tissue samples were fixed in Davidson's fixative.

Histopathological examination revealed all oysters appeared to be within the normal range with no evidence of Bonamiosis.

Appraisal

As all samples taken were negative, the movement restrictions that were initially applied have been revoked.

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



Signed:

Date: 21/01/2021

Fish Health Inspector

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