| FHI 059, Version 13              | I                            | ssued by: FHI               | Date of issue: 12/05/2020        |
|----------------------------------|------------------------------|-----------------------------|----------------------------------|
| Case No: 2021-0324               |                              |                             | Date of visit: 21/09/2021        |
| Time spent on site:              | 3 hours                      | Main Insp                   | ector:                           |
| Site No: FS0269                  | Site Name:                   | Kames Hatchery              |                                  |
| Business No: FB0134              | Business Name:               | Kames Fish Farming Ltd      |                                  |
| Case Types: 1 ECI                | 2 CNI 3 DIA                  | 4 5                         | 6                                |
| Water Temp (°C): 12.6            | Thermometer No:              | T172                        | FHI 045 completed                |
| Observations:                    | Region: ST                   | Water type: F               | CoGP MA                          |
| Dead/weak/abnormally behavir     | ng fish present?             | Y If yes, see additional in | nformation/clinical score sheet. |
| Clinical signs of disease observ | ved?                         |                             | nformation/clinical score sheet. |
| Gross pathology observed?        |                              | Y If yes, see additional in | nformation/clinical score sheet. |
| Diagnostic samples taken?        |                              | Y                           |                                  |
| UNI/REG only - if unable to car  | ry out intended visit detail | reason below:               |                                  |
|                                  |                              |                             |                                  |
|                                  |                              |                             |                                  |
|                                  |                              |                             |                                  |

### **Additional Case Information:**

Remote inspection conducted by , observed by (for training purposes) and (for the purpose of auditing ) or 15/09/2021. Physical inspection carried out on 21/09/2021 by (observed by and ). Diagnostic sampling carried out by ...

First batch of fish moving out in Autumn 2021 and another in spring 2022 all going to Loch Craignish Import of ova from AquaSearch in March 2019. Observed health certificate during physical inspection Waste collected at a shared disposal point at Kames pier

**Increased mortality events:** 

2019 wk 18, 4,500 deformed alvins removed

2020 wk 2, 3,500 unviable eggs (referred to as "glass eggs" by the site contact) removed: 3.38% mortality over the site 2020 wk 17, unviable eggs removed: 6.99% mortality. Not reported to FHI. Mortality sheet updated and site representative reminded of requirement to notify FHI of mortality in ova over 6% per week.

2021 wk 6: ~11,500 fish dead due to RTFS (10.25%). Florocol used as a treatment and is was successful. Mortality soon returned to background levels in the following week.

2021 wk 15: unviable eggs removed, 3,808 eggs (2.96%)

July 13th fish vaccinated with Alphaject 22 (just larger fish vaccinated). The rest of the fish will be vaccinated in Oct or Nov 2021

No more eggs from from Aquasearch in Denmark. All future eggs will come from Northern Trout in England.

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|--|---|---|---|--|--|--|---|---------------------------------------|
| Case No:   | 2021-0324   |   | Site No:  | FS0269   |  |  |   |                                       |
| Date of Visit:   |   | 21/09/2021  | ]   |  | Inspector(s):  |  |   | ı                                     |
| Registration/Author  | risation Deta   | iils  |   |  |  |  |   |                                       |
| 1. Business/site deta  |   |   | ite representa  | ative?   |  |  | Υ   | 1                                     |
| 2. Changes made to   | details?  |   |   |  |  |  | Υ   | ]                                     |
| Site Details (include  | e cleaner fisl  | h for all sect  | ions)   |  |  |  |   |                                       |
| Total No facilities  |   | 15  | Facilities sto  | cked   | 8  | No facilitie                                 | s inspected                                     | 15                                    |
| Species  | RTR   | RTR   |   |  |  |  | <u> </u>  |                                       |
| Age group  | 2021  | 2021  |   |  |  |  |   |                                       |
| No Fish  | 50,886  | 35,738  |   |  |  |  |   |                                       |
|  | 42g   | 130g  |   |  |  |  |   |                                       |
| Next Fallow Date (Si   |   | No plans  | •   | Next Input Da  | ite (Site)   | December                                     | 2021  |                                       |
| Recent (last 4 wks) o  | *   |   |   |  | Any escapes  |  |   | N                                     |
|  | •   |   | on below for fo   |  | ,  |  | ,   |                                       |
| <ol> <li>Movement records</li> <li>Date of last inspect</li> <li>Are records comp</li> <li>Are movement records</li> <li>Are records comp</li> <li>Are health certificat</li> <li>Are any movement</li> <li>Are any movement</li> <li>Mortality Records</li> <li>Mortality records at</li> <li>How are mortalitie</li> <li>If other detail:</li> </ol> | etion: lete and correctords available lete and corrected attes for introdutes carried out em in place for available for intensive disposed of | ectly entered? e for dead fis ectly entered? luctions (outwood t by (or on befor maintenance) espection? f? | sh and waste?<br>vith GB) availa<br>half) of the bu                         | able?<br>Isiness (not us<br>Itation records  | _  | )  | 26/02/2019                                      | Y Y Y Y                               |
|  |   |   |   | oler.  |  |  |   |                                       |
| 3. Mortality records o   | ·   | correctly ente  | RTFS diagno<br>Diagnosed b<br>Third party v<br>histology obs<br>company vel | osed on site. Coy<br>company vet<br>et taken samp<br>served on 07/0<br>t. wk 37: 0.11% | t. Fish vet gro<br>les from 4 fish<br>9/2021. RTF\$<br>6 (96 fish), wk | up prescribe<br>n and has dia<br>S confirmed | ed treatment of<br>agnosed RTF<br>using agar pl | of florocol.<br>S based on<br>ates by |
| <ol> <li>Recent mortality (I</li> <li>Evidence of recen</li> </ol>   | •   | typical mortal  |   | k 34: 0.99% (8   | 89 fish).  |  |   | Y                                     |
| If yes, facility nos/no  |   | • •   |   | /reason:   |  |  |   |                                       |
| See additional inform  |   | raciity/110 3to   | ock per lacility  | ricasori.  |  |  |   |                                       |
| 6. Any other peaks in  |   | ring period ch  | necked?   |  |  |  |   | Y                                     |
|  | See additiona   |   |   |  |  |  |   |                                       |
| 7. Have increased (u   |   |   |   | vet or FHI?  |  |  |   | N/A                                   |
| If yes, detail action:   |   | No unexplair  |   | 701011111:   |  |  |   | 10/                                   |
| 8. Have 'mortality ev  |   |   |   | details on mort  | ality events s   | heet.  |   | N                                     |

| Treatments and Medicines Records  |         |
|---|---------|
| 1. Recent treatments (see comment)?   | Y       |
| If yes, detail: Florfenicol   |         |
| 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)? Florfenicol   |         |
| If other, detail:   |         |
| 6. Are medicines stored appropriately?  | Y       |
|   |         |
| Biosecurity Records   |         |
| 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?   | Y       |
| 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:  |         |
| B 14 60 31  |         |
| 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?   | T T     |
| If yes, detail (if not detailed under recent disease problems).  RTFS diagnosed (see additional information of the control of | mation) |
| Records checked between: 22/06/2019 - 21/09/2021  |         |
| 1\C60143 611C6C4 DC(WCC11.  |         |

| П             | HI 059, Version 13                                   |           |                 |           |           |           |          | issued b | у. ГПІ              |               |       |
|---------------|--|-----------|-----------------|-----------|-----------|-----------|----------|----------|---------------------|---------------|-------|
|               | Case no:   | 2021-03   | 324             | Site No:  |           | FS0269    |          |          | of visit/<br>pling: | 21/09/2021    | 21/0  |
|               | Priority samples:                                    | VI        |                 | ВА        |           | РА        |          | MG       | HI                  | $\Rightarrow$ |       |
|               | Time sampling starts/ends: Environmental conditions: |           | 0:00<br>Indoors |           | 0:00      | ]<br>  3  | Inspecto | or: 4    | VM 5                | MD No.        | 0     |
|               | Summary samples                                      | HIST      |                 | ВА        | Y         | MG        | Y        | VI       | PA                  | Y Total Sar   | mples |
| A             | dd Fish/Pools - click                                |           |                 |           |           |           |          |          |                     |               |       |
|               | Pool/Fish No   | F1        | F2              | F3        | F4        | F5        | P1       |          |                     |               |       |
|               | Fish nos   | 1         | 2               | 3         |           | 5         | 1-5      |          |                     |               |       |
|               | Pool Group   | P1        | P1              | P1        | P1        | P1        |          |          |                     |               |       |
|               | Species  | RTR       | RTR             | RTR       | RTR       | RTR       | RTR      |          |                     |               |       |
|               | Average weight                                       | 120g      | 120g            | 120g      | 60g       | 100g      |          |          |                     |               |       |
|               | Sex  | N/A       | N/A             | N/A       |           | N/A       |          |          |                     |               |       |
|               | Water Type   | FW        | FW              | FW        | FW        | FW        |          |          |                     |               |       |
| Stock Details | Stock Origin<br>Facility No                          | Brow well | Brow well       | Brow well | Brow well | Brow well |          |          |                     |               |       |
| S             | I acility NO   | 11        | 11              | 12        | 0         | 1         |          |          |                     |               |       |

| 09/2021 | Addition | nal Sam  | ple Infor | mation: |   |   |  |  |  |  |  |
|---------|----------|----------|-----------|---------|---|---|--|--|--|--|--|
|         |          |          |           |         |   |   |  |  |  |  |  |
| 6       | 1        | Total Te | ests ass  | igned   | 2 | ١ |  |  |  |  |  |
|         |          |          |           |         |   |   |  |  |  |  |  |
|         |          |          |           |         |   |   |  |  |  |  |  |
|         |          |          |           |         |   |   |  |  |  |  |  |
|         |          |          |           |         |   |   |  |  |  |  |  |
|         |          |          |           |         |   |   |  |  |  |  |  |
|         |          |          |           |         |   |   |  |  |  |  |  |
|         |          |          |           |         |   |   |  |  |  |  |  |
|         |          |          |           |         |   |   |  |  |  |  |  |
|         |          |          |           |         |   |   |  |  |  |  |  |
|         |          |          |           |         |   |   |  |  |  |  |  |
|         |          |          |           |         |   |   |  |  |  |  |  |
|         |          |          |           |         |   |   |  |  |  |  |  |
|         |          |          |           |         |   |   |  |  |  |  |  |
|         |          |          |           |         |   |   |  |  |  |  |  |
|         |          |          |           |         |   |   |  |  |  |  |  |
|         |          |          |           |         |   |   |  |  |  |  |  |

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| Case no:                   | 2021-0324                          | ]        | Site N   | lo:      | FS026 | 69           | Me | ethod of | f killing: | Anaest   | hetic |
|----------------------------|------------------------------------|----------|--|----------|-------|--------------|----|----------|------------|----------|-------|
| Date of visit:             | 21/09/2021                         | 1        | Inspe  | ctor(s): |       |              |    | s        | heet Re    | elevant: | Υ     |
| <b>S</b> for strong presen | ce: M for medium presence: W for v | weak pre | sence  |          |       |              |    |          |            |          |       |
| Fish Number                |                                    | 1        |  | 2        | 3 4   | 1 5          |    |          |            |          |       |
| Time sampled after         | er death (if > 45 minutes)         |          |  |          |       |              |    |          |            |          |       |
| External Signs             | Moribund                           | S        | S  | S        | S     | S            |    |          |            |          |       |
| Behaviour                  | Lethargic                          | 3        | -  | W        | -     | 3            |    |          |            |          |       |
|                            | Hanging vertical                   |          |  |          |       |              |    |          |            |          |       |
|                            | Spiralling                         |          |  |          |       |              |    |          |            |          |       |
|                            | Flashing                           |          |  |          |       |              |    |          |            |          |       |
|                            | Loss of equilibrium                |          |  | M        |       |              |    |          |            |          |       |
| Body                       | Dark                               |          |  |          |       |              |    |          |            |          |       |
|                            | Distended abdomen                  |          | _  | S        |       |              |    |          |            |          |       |
|                            | Anorexic                           |          |  |          |       |              |    |          |            |          |       |
| Opercula                   | Scale Oedema<br>Shortened          |          | _  |          |       |              |    |          |            |          |       |
| Opercula                   | Flared                             |          | _  |          | _     | <del> </del> |    |          |            |          |       |
| Haemorrhaging              | Throat                             |          |  |          |       |              |    |          |            |          |       |
| J                          | Ventrum                            |          |  |          |       |              |    |          |            |          |       |
|                            | Base of fins                       |          |  |          |       |              |    |          |            |          |       |
|                            | Elsewhere                          |          |  |          |       |              |    |          |            |          |       |
| Eyes                       | Exophthalmic                       |          |  |          |       |              |    |          |            |          |       |
|                            | Enophthalmic (sunken)              |          | _  |          |       |              |    |          |            |          |       |
|                            | Cataract                           |          |  |          | _     |              |    |          |            |          |       |
| Gills                      | Haemorrhagic<br>Pale               |          |  |          |       |              |    |          |            |          |       |
| GIIIS                      | 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<br>Tissue breakdown     |          |  |          |       |              |    |          |            |          |       |
|                            | Enlarged                           |          |  |          |       |              |    |          |            |          |       |
|                            | Colour number(s)                   |          |  |          |       |              |    |          |            |          |       |
|                            | Granulomas                         |          |  |          |       |              |    |          |            |          |       |
|                            | Lesions                            |          |  |          |       |              |    |          |            |          |       |
| Pyloric caeca              | Petechial haem                     |          |  |          |       |              |    |          |            |          |       |
|                            | Tubules mauve                      |          | ļ.,  | -        |       |              |    |          |            |          |       |
| Culcar                     | Lack of fat                        | M        | М  | M        | М     | М            |    |          |            |          |       |
| Spleen                     | Enlarged<br>Granulomas             |          | -  |          |       |              |    |          |            |          |       |
| Gut                        | No food present                    | M        | M  | M        | М     | М            |    |          |            |          |       |
| - at                       | Yellow pseudo-faeces               |          | <del>                                     </del> |          | -     |              |    |          |            |          |       |
|                            | External haem                      |          |  |          |       |              |    |          |            |          |       |
|                            | Internal haem                      |          |  |          |       |              |    |          |            |          |       |
| Body wall                  | Haemorrhaging                      |          |  |          |       |              |    |          |            |          |       |
| Swim bladder               | Haemorrhaging                      |          |  |          |       |              |    |          |            |          |       |
|                            | Fluid filled                       |          |  |          |       |              |    |          |            |          |       |
| Kidney                     | Swollen                            |          | _  |          |       |              |    |          |            |          |       |
|                            | Grey                               |          |  |          |       |              |    |          |            |          |       |
|                            | Granular<br>Liquefied              |          |  |          |       |              |    |          |            |          |       |
| General                    | Parasites present                  |          |  |          |       |              |    |          |            |          |       |
| Contoral                   | Anaemia                            |          |  |          |       |              |    |          |            |          |       |

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Date of visit: 21/09/2021

| Signature   Sign   |
|--|
| Fish Number Time sampled after death (f > 45 minutes) External Signs Behaviour Lethargic Hanging vertical Spiralling Flashing Loss of equilibrium Body Dork Obstended abdomen Obstended abdomen Anorexic Scale Oedema Sportalling Flashing Fl |
| Time sampled after death (f) - 46 minutes) Ekternal Signs Ekhaviour  Montund  Luthargic  Hanging vertical  Spiralling  Flashing  Loss of equilibrium  Body  Dark  Anorexic  Anorexic  Scale Oddema  Apercula  Shortened  Hamming flared  Hammi |
| External Signs Behaviour  Hanging vertical  Hanging vertical  Spiralling Flashing Flashing Flashing  Loss of equilibrium  Body  Distended abdomen  Distended abdomen  Anorexic  Scale Oedema  Scale Oedema  Flashing Flashi |
| Behaviour   Moribund   |
| Lethargic  |
| Hanging vertical   |
| Spiralling   |
| Flashing   |
| Los of equilibrium   |
| Body   Dark  |
| Distanced abdomen  |
| Scale Cedema   |
| Sportened  |
| Sportened  |
| Haemorrhaging   Throat   |
| Haemorrhaging   Throat   |
| Ventrum  |
| Base of fins   |
| Elsewhere  |
| Exempthalmic   |
| Enophthalmic (sunken)  |
| Cataract   |
| Haemorrhagic   |
| Gills  |
| Necrotic   |
| Lesions  |
| Lesions  |
| Vent         Inflamed         Intelling faeces         Int  |
| Vent         Inflamed         Intelling faeces         Int  |
| Trailing faeces  |
| Lice Load  |
| Internal Signs   |
| Ascites   Clear  |
| Ascites   Clear  |
| Oedema         In tissues           Heart         Pale/anaemic           Granulomas  |
| Heart  |
| Granulomas   |
| Deformed    |
| Liver  |
| Gross haem   |
| Tissue breakdown   Enlarged   Colour number(s)      |
| Enlarged   |
| Colour number(s)   |
| Granulomas Lesions Pyloric caeca Petechial haem Tubules mauve Lack of fat Spleen Enlarged Granulomas Gut No food present Yellow pseudo-faeces External haem Internal haem Body wall Haemorrhaging Swim bladder Fluid filled Kidney Granular Liquefied General Parasites present  |
| Lesions Pyloric caeca Petechial haem Tubules mauve Lack of fat Spleen Enlarged Granulomas Gut No food present Yellow pseudo-faeces External haem Internal haem Body wall Haemorrhaging Swim bladder Haemorrhaging Fluid filled Kidney Granular Liquefied General Parasites present    Common   |
| Pyloric caeca         Petechial haem   |
| Tubules mauve Lack of fat  Spleen Enlarged Granulomas Gut No food present Yellow pseudo-faeces External haem Internal haem Body wall Haemorrhaging Swim bladder Haemorrhaging Fluid filled Kidney Granular Liquefied General Farasites present   |
| Lack of fat  |
| Spleen         Enlarged  |
| Granulomas   |
| Gut         No food present  |
| Yellow pseudo-faeces   |
| External haem  |
| Internal haem  |
| Body wall         Haemorrhaging         Image: Control of the control   |
| Swim bladder         Haemorrhaging         Image: Control of the contr  |
| Fluid filled   |
| Kidney         Swollen   |
| Grey   |
| Granular   |
| Liquefied Seneral Parasites present Seneral Se |
| General Parasites present  |
|  |
| Anaemia Anaemia  |
|  |

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|--|-------------------------------------|---|----------|------------|---------------|---------|--------------|
| Case Number:   | 2021-0324                           |   | Site No: | FS0269     | I             | nsp:    |              |
| Date of Visit  | 21/09/2021                          |   | 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      | 5            |
| with GB) of susceptible species                      |                                     | novements on from equivalent zone or including third country            | 0        | 9          | 18            | 26      |              |
| ·  | Number of sup                       |   | 0        |            | 10            | 14      | 5            |
| Movements off  | Frequency of n                      | novements off   | l 0      | 3          | 6             | 10      | 6            |
|  | Number of des                       |   | 0        |            | 6             | 10      | 3            |
| Exposure via water                                   |                                     | Site contacts   | 0        | 1-5        | 6-10          |         |              |
| Water contacts with other farms (holding species     | disinfection or l                   | ,   | 0        |            |               |         |              |
| susceptible to same diseases)                        | farms upstrean                      | or in a coastal zone with category I<br>n or within 1 tidal excursion   | 1        | 2          | 4             |         | 1            |
|  | farms upstrean                      | or in a coastal zone with category III<br>n or within 1 tidal excursion | 1        | 3          | 6             |         |              |
|  |                                     | or in a coastal zone with category V<br>n or within 1 tidal excursion   | 1        | 4          | 8             |         |              |
| Management practices                                 |                                     |   | None     | Secure     | Unsecure      |         |              |
| Water contacts with processors                       | Any processing                      | g plant discharging into adjacent waters                                | 0        | 1          | 2             |         | 0            |
| On farm processing within the rules of the directive | No on farm pro                      | cessing   | 0        |            |               |         | 0            |
|  | Processing own                      | n fish (re-cycling risk)  | 1        |            |               |         |              |
|  | Processing fish                     | from MS of equivalent status  | 2        |            |               |         |              |
|  | Processing fish<br>equivalent state | from zone or compartment of<br>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        | 1          |               |         |              |
| 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        | i          |               |         | 0            |
| ·  | Feeding unpas                       | •   | 5        | 1          |               |         |              |
| Biosecurity  |                                     | Number of sites   | 1        | 2 or 3     | ≥ 4           |         |              |
| Contacts with other sites                            | Sites operating                     | from single shorebase   | 0        | 1          | 2             |         | 2            |
|  | Sites sharing s                     | taff and equipment  | 0        | 1          | 2             |         | 2            |
| Disinfection of equipment                            | Yes                                 |   |          | ]          |               |         | 0            |
| between sites, use of footbaths etc                  | No                                  |   | 1        |            |               |         |              |
| CoGP/Regulator                                       |                                     |   |          |            |               |         |              |
| Practices in accordance with regulator or industry   | Yes                                 |   | 0        |            |               |         | 0            |
| code of practice                                     | No                                  |   | 3        |            |               |         |              |
| Platform access to cages                             | Yes                                 |   | 0        | 1          |               |         | 0            |
|  | No                                  |   | 2        |            |               |         |              |
|  |                                     |   |          |            | Total<br>Rank |         | 27<br>HIGH   |

| Case No:   | 2021-0324   | 3  | Site No:                | FS0269                      |         |
|--|---|--|-------------------------|-----------------------------|---------|
| <ol> <li>Is the CoGP Farm M</li> <li>Does the site have a</li> </ol> | nced sea lice probler<br>lanagement Area (or<br>access to a range of l<br>amectin benzoate) | ms in the previous 4 years? equivalent) fallowed synchricenced in-feed and bath seas well as access to suitable be | a lice medications (in  | cluding deltamethrin,       | es, and |
| 4. Is there a signed doo<br>Management Area (or                      |   | agement agreement or staten  | nent relevant to the s  | ite and CoGP Farm           |         |
|  |   | nspection? (Legal SSI, CoGP<br>ed standard specified in the S  | •                       | egal SSI, CoGP Annex        | 6)      |
| 7. Are sea lice (L. salm records are inspected?                      |   | pelow the suggested criteria f   | or treatment in the C   | oGP during the period th    | nat     |
|  |   | almonis) numbers per fish be<br>riod that records are inspecte   |                         | above (prior to w/b 10/6/   | 19) or  |
| If yes, have these beer  | reported to the Fish  | Health Inspectorate? If no, I  | FHI see comment.        |                             |         |
| 9. Is C. elongatus infes   | station at a level which  | ch is considered to cause sig  | nificant welfare probl  | ems? (CoGP 4.3.81, 5.3      | 3.50)   |
| suggested criteria for tr  | reatment or where C   | nistered or other actions take<br>elongatus is considered to   |                         |                             |         |
| 11. Has any other action   | •   |  |                         |                             |         |
| ·  |   | ons taken had a significant in<br>ed out in cooperation betwee   |                         |                             |         |
|  |   | e, where fewer populations o   |                         |                             | for     |
| 15. Is there a site spec scenarios during the es                     |   | gement procedure with wayp<br>e infestation?   | oints describing set a  | actions to deal with reco   | gnised  |
| 16. Do the sea lice leve   | els observed on stoc  | ks reflect sea lice count data   | ? If no please detail r | easons.                     |         |
|  |   |  |                         |                             |         |
| Containment Inspecti   | ion   |  |                         |                             |         |
|  |   | nage due to predators in the o   |                         | •                           | N       |
| 2. Are measures in pla   | ce to mitigate agains   | t the predation experienced  | on site? (Detail below  | v)                          | Υ       |
| If other, detail below:  |   |  |                         |                             |         |
| Site inside, contract wit  | th pest control comp  | any, traps available for use if  | required (not require   | ed at the time of the inspe | ection) |
| 3. Have escape incide<br>If Yes proceed with que                     |   | xperienced on or in the vicini<br>kip to question 10   | ty of the site since th | e last FHI inspection?      | N       |
| 4. Have these been rep   | ported to Scottish Min  | nisters?   |                         |                             |         |
|  |   | forthwith (where they exist)?  | •                       |                             |         |
| 6. Have these been rep   | ported to the SSPO a  | and local fisheries trusts forth   | with (where they exis   | st)? (CoGP – 4.4.37, 5.4.   | .17)    |
| 7. Were methods (if an   | y) used to recover e  | scapees? If yes give detail  |                         |                             |         |
| 8 If all nots were donly   | oved was this action  | agreed with local wild fish in   | erests and was norm     | ission given by Scottish    |         |
| Ministers? (Legal, CoG   | SP - 4.4.38, 5.4.18)  |  |                         |                             |         |
|  |   | inimise the risk of further esc  | apes? (Not covered i    | in code but could           |         |
| be considered under  | •   | sures of the Act) regards to containment? If r   | no nicaso dotail roca   | on(s)                       | V       |
| To. 15 the site inspected  | a as satisfactory with  | regards to containment? If f   | io, piedse detail leas  | on(s)                       | l'      |
|  |   |  |                         |                             |         |
|  |   |  |                         |                             |         |

Issued by: FHI

FHI 059, Version 13

Date of issue: 12/05/2020

Site No: FS0269

Case No: 2021-0324

Nature of non-compliance:

Action taken (FHI):

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

Case No: 2021-0324 Site No: FS0269 Date of visit: 21/09/2021

| Start date: | applicable) | fish:               | Average<br>weight of<br>affected<br>population: |     | Yearclass<br>(SW SAL<br>only): |        | Mortality rate recorded(%): | unexplained: | If explained, select reason(s): |
|-------------|-------------|---------------------|---|-----|--------------------------------|--------|-----------------------------|--------------|---------------------------------|
| 20/04/20    | 26/04/2020  | Eggs to 1st<br>feed | 0.1g  | RTR |                                | Weekly | 6.99                        | Explained    | Transport                       |
|             |             |                     |   |     |                                |        |                             |              |                                 |
|             |             |                     |   |     |                                |        |                             |              |                                 |
|             |             |                     |   |     |                                |        |                             |              |                                 |
|             |             |                     |   |     |                                |        |                             |              |                                 |
|             |             |                     |   |     |                                |        |                             |              |                                 |
|             |             |                     |   |     |                                |        |                             |              |                                 |
|             |             |                     |   |     |                                |        |                             |              |                                 |
|             | -           |                     |   |     |                                |        |                             |              |                                 |
|             |             |                     |   |     |                                |        |                             |              |                                 |
|             |             |                     |   |     |                                |        |                             |              |                                 |
|             |             |                     |   |     |                                |        |                             |              |                                 |
|             |             |                     |   |     |                                |        |                             |              |                                 |
|             |             |                     |   |     |                                |        |                             |              |                                 |
|             |             |                     |   |     |                                |        |                             |              |                                 |
|             |             |                     |   |     |                                |        |                             |              |                                 |

| If unexplained, select observations: |  | · · · · · · · · · · · · · · · · · · ·   | Yearclass<br>Year |
|--------------------------------------|--|---|-------------------|
|                                      | Eggs removed from consignment, recorded and disposed of. | FHI aware during an inspection on 21/09/2021 (case number: 2021-0324). Site representative reminded to contact FHI when mortality in ova exceeds 6% per week. |                   |
|                                      |  |   |                   |
|                                      |  |   |                   |
|                                      |  |   |                   |
|                                      |  |   |                   |
|                                      |  |   |                   |
|                                      |  |   |                   |
|                                      |  |   |                   |
|                                      |  |   |                   |
|                                      |  |   |                   |
|                                      |  |   |                   |
|                                      |  |   |                   |
|                                      |  |   |                   |
|                                      |  |   |                   |
|                                      |  |   |                   |

| Case No:        | 2021-0324 |            |                      | Date of visit: | 21/09/2021     |            |      |                      |
|-----------------|-----------|------------|----------------------|----------------|----------------|------------|------|----------------------|
| Site No:        | FS0269    | 7          |                      | Inspector:     |                |            |      |                      |
| Site No.        | 1 30209   | _          |                      | irispector.    |                |            |      |                      |
| Results Summary | Freq.     |            |                      | Dat            | te of Notifica | tion       |      |                      |
| ·               |           | Database   | Insp                 | Phone          | Insp           | Writing    | Insp | 2 <sup>nd</sup> Insp |
| MG IHN          | 0/1       | 06/10/2021 |                      | 24/09/2021     |                | 27/10/2021 |      |                      |
| MG IPN          | 1/1       | 06/10/2021 |                      | 24/09/2021     |                | 27/10/2021 |      |                      |
| MG SAV          | 0/1       | 06/10/2021 |                      | 24/09/2021     |                | 27/10/2021 |      |                      |
| MG VHS          | 0/1       | 06/10/2021 |                      | 24/09/2021     |                | 27/10/2021 |      |                      |
| GPAT            | 5/5       | 06/10/2021 |                      | 0610/2021      |                | 27/10/2021 |      |                      |
| GPAR            | 5/5       | 06/10/2021 |                      | 0610/2021      |                | 27/10/2021 |      |                      |
| G.salaris       | 0/5       | 06/10/2021 |                      | 0610/2021      |                | 27/10/2021 |      |                      |
| FPSY            | 4/5       | 27/10/2021 |                      | 27/10/2021     |                | 27/10/2021 |      |                      |
|                 |           |            |                      |                |                |            |      |                      |
|                 |           |            |                      |                |                |            |      |                      |
|                 |           |            |                      |                |                |            |      |                      |
|                 |           |            |                      |                |                |            |      |                      |
|                 |           |            |                      |                |                |            |      |                      |
|                 |           | 1          |                      |                |                |            |      |                      |
|                 |           | 1          |                      |                |                |            |      |                      |
|                 | 1         |            |                      |                |                |            |      |                      |
|                 |           | 1          |                      |                |                |            |      |                      |
|                 |           |            |                      |                |                |            |      |                      |
|                 |           |            |                      |                |                |            |      |                      |
|                 |           |            |                      |                |                |            |      |                      |
|                 |           |            |                      |                |                |            |      |                      |
|                 | +         |            |                      |                |                |            |      |                      |
|                 | _         |            |                      |                |                |            |      |                      |
|                 | +         | +          |                      |                |                |            |      |                      |
|                 |           |            |                      |                |                |            |      |                      |
| Report Summary  |           |            |                      | 1              |                |            |      |                      |
| Case Type       | Date      | Insp       | 2 <sup>nd</sup> Insp |                |                |            |      |                      |
| ECI, CNÍ        | 06/10/202 |            |                      |                |                |            |      |                      |
| DIA             | 27/10/202 |            |                      |                |                |            |      |                      |
|                 |           |            |                      |                |                |            |      |                      |
|                 |           |            |                      |                |                |            |      |                      |
|                 |           |            |                      |                |                |            |      |                      |
|                 | +         |            |                      |                |                |            |      |                      |
|                 | <b>—</b>  |            |                      |                |                |            |      |                      |
|                 | +         |            |                      |                |                |            |      |                      |
|                 | -         |            |                      |                |                |            |      |                      |
|                 |           |            |                      |                |                |            |      |                      |
|                 | +         |            |                      |                |                |            |      |                      |





# FISH HEALTH INSPECTORATE VISIT REPORT

#### SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0134 DATE OF VISIT 21/09/2021
SITE No FS0269 SITE NAME Kames Hatchery

CASE NO 20210324 INSPECTORS



## Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

All epidemiological units were inspected.

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

### Records

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

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

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

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

Mortality records were inspected and found to be adequately maintained.

Mortality levels had exceeded the reporting criteria since the last inspection and had 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 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: 06/10/2021
Fish Health Inspector

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





# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0134
 Date of Visit
 21/09/2021

 Site No
 FS0269
 Site Name
 Kames Hatchery

 Case No
 20210324
 Inspector

**Section 1: Summary** 

During a routine inspection, moribund fish were observed. Five fish were removed from the water for diagnostic purposes.

Histopathology examination revealed mild multifactorial proliferative branchitis. Several amoebic cells were present and one fish also displayed bacteria among gill filaments (potentially associated with Rainbow Trout Fry Syndrome [RTFS] observed on site).

Flavobacterium psychrophilum was identified on plates taken from kidney material of 4 / 5 Fish. Because of the fastidious nature of this bacterium the low level of growth observed does not reflect the actual level present in the fish and in this case the treatment with antibiotics will have reduced the number of viable bacteria. F. psychrophilum is a primary fish pathogen and a risk to fish health.

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 site was inspected as part of a risk based surveillance schedule. The inspection conducted was a routine inspection. Before the physical inspection on site it was noted that RTFS had been confirmed on site by the company biologist and a third party vet. The fish had been treated for this disease using florfenicol and mortality rates had reportedly reduced due to this treatment. It was thought that only fish in tanks 11 and 12 were affected by the disease. Some fish on site had been vaccinated using Alphaject 22.

During the physical inspection of the site, 5 fish were removed after moribund fish were observed. All fish removed were moribund and fish 3 was also lethargic, had a loss of equilibrium, a distended abdomen and a deformed tail. Fish 1 also had a deformed tail and fish 5 had physical damage on the lower jaw. During the internal examination, it was noted that all fish had a lack of fat associated with the pyloric caeca and no food present in the gut. Fish 3 also had a swollen atrium.

## **Samples**

Samples were collected from 5 fish according to the table below:

| Fish<br>number | Pool<br>number | Facility number | Species  | Stage | Origin              |
|----------------|----------------|-----------------|--|-------|---------------------|
| 1+2            | 1              | 11              | Rainbow trout<br>( <i>Oncorhynchu</i> s<br><i>myki</i> ss) | ~120g | Brow Well Fisheries |
| 3              | 1              | 12              | Rainbow trout<br>( <i>Oncorhynchu</i> s<br><i>myki</i> ss) | ~120g | Brow Well Fisheries |
| 4              | 1              | 6               | Rainbow trout<br>(Oncorhynchus<br>mykiss)                  | ~60g  | Brow Well Fisheries |
| 5              | 1              | 7               | Rainbow trout<br>(Oncorhynchus<br>mykiss)                  | ~100g | Brow Well Fisheries |

### Results

**Bacteriology:** Kidney and spleen material from fish 1-5 were inoculated onto appropriate media for the isolation of bacteria.

The following bacteria were isolated from fish 1,2,4 and 5. *Flavobacterium* sp. (kidney)

Flavobacterium psychrophilum was identified by QPCR.

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

Tissue samples were tested for the presence of infectious pancreatic necrosis virus (IPNV), by QPCR

| Pool<br>Number | Endogenous<br>control Cp<br>value |       | Reported<br>Result (PCR) |       |          |
|----------------|-----------------------------------|-------|--------------------------|-------|----------|
| P1             | 15.79                             | 31.86 | 32.03                    | 32.38 | POSITIVE |

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

**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.

**Histology:** Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from fish 1-5. The tissue samples were fixed in 10% neutral buffered formalin.

R09

Histopathological examination revealed the following:

Tissues from 5 Atlantic salmon were examined by light microscopy. The following histopathological changes were observed:

<u>Gill</u>: Very mild to mild multifocal interlamellar hyperplasia (F1-F5) and lamellar fusion (F5). F5 displayed occasional spaces (lacunae) on the hyperplasic plaques, some of the lacunae filled with cell debris and amoebic cells, (F5). All fish exhibited several amoebic cells free among gill filaments and lamellae. F5 also displayed cluster of filamentous and rod-shaped Gram-negative bacteria associated with debris among gill filaments. F5 exhibited inflammatory cell infiltration, mainly polymorphonuclear neutrophils, observed at the gill filaments centre. One third of proximal area of one gill filament dispalyed cell necrosis associated. One several aneutysmal dilation (F3).

Skin & Muscle: Within normal range.

Heart: Mild pericarditis (F2).

<u>Gut and pyloric caeca:</u> Some cell sloughing (F5) (potentially associated with post-mortem artefacts).

Pancreas: Within normal range. F1 displayed artefacts which hindered the reading.

<u>Liver</u>: Mild diffuse hepatocyte vacuolation (F1, F3).

<u>Kidney</u>: Renal tubes displayed hyaline droplets on the lining epithelium (F1, F2 & F5), heamatopoiteic tissue slightly congested.

Spleen: Slightly congested (F2, F5).

Brain: Not sampled

Eye: Not sampled.

Signed: Date: 12/11/2021

Fish Health Inspector

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



Image 1: Fish 1 and 2



Image 2: Fish 3



Image 3: Fish 4



Image 4: Fish 5

| FHI 059, Version 13  | Issu                         | ed by: FHI   | Date of issue: 12/05/2020 |  |  |  |
|--|------------------------------|--|---------------------------|--|--|--|
| Case No: 2021-0329   |                              |  | Date of visit: 14/09/2021 |  |  |  |
| Time spent on site:  | hour                         | Mair   | n Inspector:              |  |  |  |
| Site No: FS0058 Business No: FB0447  | Site Name:<br>Business Name: | Elphin Smolt Unit<br>Wester Ross Fisheric  | es Ltd                    |  |  |  |
| Case Types: 1 REG  | 2 3                          | 4 5  | 6                         |  |  |  |
| Water Temp (°C):   | Thermometer No:              |  | FHI 045 completed         |  |  |  |
| Observations:  | Region: HI                   | Water type: F  | CoGP MA:                  |  |  |  |
| Dead/weak/abnormally behaving<br>Clinical signs of disease observe<br>Gross pathology observed?<br>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  |                              |  |                           |  |  |  |
| The site   | has been fallow since 2014   | and the facilities have  | e been dismantled.        |  |  |  |
|  |                              |  |                           |  |  |  |
|  |                              |  |                           |  |  |  |
|  |                              |  |                           |  |  |  |

# **Additional Case Information:**

Site remains fallow, since 2014, and the tanks have been dismantled. There are no current plans to inactivate or to resurrect the site.

| FHI 059, Version 13   | 3  |                                 | Issu                                     | ed by: FHI               |                |              | Date of issue:   | 12/05/2020        |
|---|--|---------------------------------|--|--------------------------|----------------|--------------|------------------|-------------------|
| Case No:  | 2021-0329  |                                 | Site No:                                 | FS0058                   |                |              |                  |                   |
| Date of Visit:  |  | 14/09/202                       | 1  |                          | Inspector(s)   | :            |                  |                   |
| Registration/Auth   | orisation Det  | ails                            |  |                          |                |              |                  |                   |
| 1. Business/site de   |  |                                 | site representa                          | ative?                   |                |              | Y                |                   |
| 2. Changes made t   | •  |                                 | ·  |                          |                |              | Υ                |                   |
| Site Details (inclu   | de cleaner fis   | sh for all sect                 | tions)                                   |                          |                |              |                  |                   |
| Total No facilities   |  | 0                               | Facilities sto                           | cked                     | 0              | No facilit   | ties inspected 0 |                   |
| Species   | N/A  |                                 |  |                          |                |              |                  |                   |
| Age group   | N/A  |                                 |  |                          |                |              |                  |                   |
| No Fish   | N/A  |                                 |  |                          |                |              |                  |                   |
| Mean Fish Wt  | N/A  |                                 |  |                          |                |              |                  |                   |
| Next Fallow Date (  |  | N/A                             |  | Next Input Da            | te (Site)      | N/A          |                  |                   |
| Recent (last 4 wks)   | *  |                                 |  | •                        | Any escape     |              | et vicit\2       | N/A               |
| If yes, detail:   | disease prob   | IEIIIS!                         |  | 14/74                    | Arry escape    | s (since ias | st visit)!       | IN/A              |
| <ol> <li>Are movement results. Are records commended.</li> <li>Are health certification.</li> <li>Transport Record</li> <li>Are any movements.</li> <li>If yes, is there a system.</li> </ol> | plete and corr<br>cates for introd<br>s<br>ents carried ou | ectly entered<br>ductions (outv | ?<br>with GB) availa<br>chalf) of the bu | able?<br>usiness (not us | -              |              | E                | N/A<br>N/A<br>N/A |
| Mortality Records   | ;  |                                 |  |                          |                |              |                  |                   |
| 1. Mortality records  | available for i  | nspection?                      |  |                          |                |              |                  | N/A               |
| 2. How are mortalit   | ies disposed d   | of?                             |  |                          | Other (detai   | il)          |                  |                   |
| If other detail:  | No stock he  | ld on site sind                 | ce date of last                          | inspection.              |                |              |                  |                   |
| 3. Mortality records  |  |                                 |  |                          |                |              |                  | N/A               |
| 4. Recent mortality   | •  | •                               | N/A                                      |                          |                |              |                  |                   |
| 5. Evidence of rece   | ` ,  | atypical morta                  |  |                          |                |              |                  | N/A               |
| If yes, facility nos/n  |  | • •                             |  | /reason·                 |                |              | _                | •                 |
| 11 yes, raomity 1105/11   | o mortality per  | Taomity/110 St                  | ook per raomty                           | 71000011.                |                |              |                  |                   |
| 6. Any other peaks  | in mortality du  | ring period c                   | hecked?                                  |                          |                |              |                  | N/A               |
| If yes, detail:   |  | 3 - 553 6.                      |  |                          |                |              |                  |                   |
| 7. Have increased   | (unexplained)  | mortalities be                  | en reported to                           | vet or FHI?              |                |              |                  | N/A               |
| If yes, detail action:  |  | ortaintioo be                   | o. roportod to                           |                          |                |              |                  |                   |
| 8. Have 'mortality e  |  | Prorted to EH                   | 12 If no enter                           | details on mort          | ality events   | sheet        |                  | N/A               |
| o. Have illulality c  | VOING DECITIE  |                                 | i. Il lio, cilici                        | actails of Fillor        | anty everito a | nicct.       |                  | 14//1             |

| Treatments and Medicines Records  |                  |
|---|------------------|
| 1. Recent treatments (see comment)?   |                  |
| 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?   |                  |
| <ol> <li>Has the manner and frequency of mortality removal, recording and safe disposal been considered.</li> </ol> | d?               |
| 3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary profession               |                  |
| increased (unexplained) mortality at the site been included?  | idi di dii,      |
| 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?               | 10000. 0.1000.00 |
| 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equa                   | l 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                  | t 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: 03/10/16 - 14/09/21  |                  |

| Case No:         | 2021-0329  |          |                      | Date of visit: | 14/09/2021     |      |      |                      |
|------------------|------------|----------|----------------------|----------------|----------------|------|------|----------------------|
| Site No:         | FS0058     | 1        |                      | Inspector:     |                | l    |      |                      |
| Results Summary  | Freq.      |          |                      | Da             | te of Notifica | tion |      |                      |
|                  | · ·        | Database | Insp                 | Phone          | Insp           |      | Insp | 2 <sup>nd</sup> Insp |
|                  |            |          |                      |                |                |      |      |                      |
|                  |            |          |                      |                |                |      |      |                      |
|                  |            |          |                      |                |                |      |      |                      |
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|                  |            |          |                      |                |                |      |      |                      |
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|                  |            |          |                      |                |                |      |      |                      |
|                  |            |          |                      |                |                |      |      |                      |
|                  |            |          |                      |                |                |      |      |                      |
| Report Summary   |            |          |                      |                |                |      |      |                      |
| Case Type        | Date       | Insp     | 2 <sup>nd</sup> Insp | 1              |                |      |      |                      |
| Case Type<br>REG | 08/11/2021 | ·        |                      |                |                |      |      |                      |
|                  |            |          |                      |                |                |      |      |                      |
|                  |            |          |                      |                |                |      |      |                      |
|                  |            |          |                      |                |                |      |      |                      |
|                  |            |          |                      |                |                |      |      |                      |
|                  |            |          |                      |                |                |      |      |                      |
|                  |            |          |                      |                |                |      |      |                      |
|                  |            |          |                      |                |                |      |      |                      |
|                  |            |          |                      |                |                |      |      |                      |
|                  |            |          |                      |                |                |      |      |                      |





# FISH HEALTH INSPECTORATE VISIT REPORT

### SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 FB0447
 DATE OF VISIT
 14/09/2021

 SITE NO
 FS0058
 SITE NAME
 Elphin Smolt Unit

 CASE NO
 20210329
 INSPECTOR

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

On this occasion, the site was found to be fallow with all facilities removed. There are no plans to restock the site at this time, however the operator would prefer that the site remained active. Please ensure that a biosecurity measures plan and appropriate records are maintained in accordance with the authorisation granted to operate at the site and contact us if the site is to be restocked in the future or transferred to another business.

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

Signed:

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

Date: 08/11/2021

| FHI 059, Version 13                                  |                             | Issued by: FHI            | Date of issue: 12/05/2020         |
|--|-----------------------------|---------------------------|-----------------------------------|
| Case No: 2021-0330                                   |                             |                           | Date of visit: 15/09/2021         |
| Time spent on site:                                  | 4 Hours                     | Main Insp                 | pector:                           |
| Site No: FS0517                                      | Site Name:                  | Ardessie A                |                                   |
| Business No: FB0447                                  | Business Name:              | Wester Ross Fisheries Ltd |                                   |
| Case Types: 1 ECI                                    | 2 CNI 3 SLI                 | 4 5                       | 6                                 |
| Water Temp (°C): 13.9                                | Thermometer No:             | T148                      | FHI 045 completed                 |
| Observations:  | Region: HI                  | Water type: S             | CoGP MA M-14                      |
| Dead/weak/abnormally behaving                        | -                           |                           | information/clinical score sheet. |
| Clinical signs of disease observ                     | ed?                         |                           | information/clinical score sheet. |
| Gross pathology observed?  Diagnostic samples taken? |                             | N If yes, see additional  | information/clinical score sheet. |
| Diagnostic samples taken:                            |                             | IN                        |                                   |
| UNI/REG only - if unable to carr                     | ry out intended visit detai | il reason below:          |                                   |
|  |                             |                           |                                   |
|  |                             |                           |                                   |
|  |                             |                           |                                   |

## Additional Case Information:

Following the mortalities due to gill health issues and handling for husbandry operations, there has been a return to normal mortality, with fish shoaling as normal and no moribund fish observed. The site has planned to start harvesting from the end of this week. A seal was observed close to the pens but predator mitigation was in place. Lions mane jellyfish observed on site. Records show observed cleanerfish mortality is very low. Nets are kept clean by swim-through and air drying. Although registered separately, the two Ardessie sites are operated as one for production purposes. Inspection and remote paperwork undertaken by supervised by 27/04/22 - evidence was supplied to resolve the issue with the FMS which now meets the requirement.

| FHI 059, Version 13   |                  | _              | Issu            | ed by: FHI       | _               |              | Date of issue | e: 12/05/2020 |
|---|------------------|----------------|-----------------|------------------|-----------------|--------------|---------------|---------------|
| Case No:  | 2021-0330        |                | Site No:        | FS0517           | ]               |              |               |               |
| Date of Visit:  |                  | 15/09/2021     | ]               |                  | Inspector(s):   |              |               |               |
| Registration/Autho  | risation Deta    | iils           |                 |                  |                 |              |               |               |
| 1. Business/site deta   | ails summary     | checked by s   | ite representa  | ative?           |                 |              | Υ             |               |
| 2. Changes made to  | details?         |                |                 |                  |                 |              | Υ             |               |
| Site Details (includ  | e cleaner fis    | h for all sect | ions)           |                  |                 |              |               |               |
| Total No facilities   |                  | 12             | Facilities sto  | cked             | 10              | No facilitie | s inspected   | 12            |
| Species   | SAL              | WRS            |                 |                  |                 |              |               |               |
| Age group   | 2020 S0          | Wild           |                 |                  |                 |              |               |               |
| No Fish   | 74,478           | 1,580          |                 |                  |                 |              |               |               |
| Mean Fish Wt  | 2 Kg             | 120g           |                 |                  |                 |              |               |               |
| Next Fallow Date (S   |                  | 03/2022        |                 | Next Input Da    | ite (Site)      | 20/05/2022   | 2             |               |
| Recent (last 4 wks)   | •                |                |                 |                  | Any escapes     |              |               | N             |
| If yes, detail:   |                  |                | ted. Liver pat  | hology is likely |                 | 1            | , .           |               |
| Movement Records  |                  |                |                 |                  |                 |              |               |               |
| Movement record   |                  | r inconntion?  |                 |                  |                 |              |               |               |
|   |                  | inspection:    |                 |                  |                 |              | 20/10/2020    |               |
| 2. Date of last inspec  |                  |                | ,               |                  |                 |              | 20/10/2020    | V             |
| 3. Are records comp   |                  | •              |                 |                  |                 |              |               | T             |
| 4. Are movement re  |                  |                |                 |                  |                 |              |               | ĭ             |
| 5. Are records comp   |                  |                |                 |                  |                 |              |               | Y             |
| 6. Are health certification   | ates for introd  | luctions (outw | ith GB) availa  | able?            |                 |              |               | N/A           |
| Transport Records   | ;                |                |                 |                  |                 |              |               |               |
| 1. Are any movemen  | nts carried out  | t by (or on be | half) of the bເ | usiness (not usi | ing a STB)?     |              |               | N             |
| If yes, is there a syst   | tem in place f   | or maintenan   | ce of transpo   | rtation records  | ?               |              |               |               |
| Mortality Records   |                  |                |                 |                  |                 |              |               |               |
| 1. Mortality records a  | available for ir | nspection?     |                 |                  |                 |              |               | Y             |
| 2. How are mortalitie   |                  | •              |                 |                  | Other (detail)  |              |               |               |
| If other detail: Ensiled at Corry farm. Depending on availability for removal, ensiled waste processed by anaerobic |                  |                |                 |                  |                 |              |               |               |
| 3. Mortality records of   |                  |                |                 | ,                | ,               |              | ,             | Y             |
| 4. Recent mortality (   | •                | •              |                 | .29% (17,000)    | Week 35 0.45    | 5% (339). W  | eek 34 0.07%  | (55). Week    |
| 5. Evidence of recen  | •                | tvpical mortal |                 |                  |                 | (000), 11    |               | Y             |
| If yes, facility nos/no   |                  | • •            |                 | /reason:         |                 |              |               |               |
| D1 (1,519), D2 (1,21  |                  | •              |                 |                  | (1 106) D8 (    | 1 350) DQ (  | 1 /00) D10 (  | 1 6/2) due to |
| gill pathology  | 13), D3 (2,300   | ), D4 (3,370), | , D3 (1,302), 1 | D0 (1,307), D7   | (1,100), D0 (   | 1,559), D9 ( | 1,409), D10 ( | 1,042) due to |
| 6. Any other peaks i  | n mortality du   | ring period ch | ecked?          |                  |                 |              |               | N             |
| If yes, detail:   |                  |                |                 |                  |                 |              |               |               |
| 7. Have increased (unexplained) mortalities been reported to vet or FHI?  N/A                                       |                  |                |                 |                  |                 |              |               |               |
| If yes, detail action:  |                  |                |                 |                  |                 |              |               |               |
| 8. Have 'mortality ev   | ents' been re    | ported to EUI  | 2 If no enter   | details on mort  | ality events of | neet .       |               |               |
| o. Have mortality ev  | cillo neeli le   | ported to FILI | : If Ho, enter  | details on mort  | anty events si  | icci.        |               |               |

| Treatments and Medicines Records   |        |  |  |  |  |
|--|--------|--|--|--|--|
| 1. Recent treatments (see comment)?  | Y      |  |  |  |  |
| H2O2,  |        |  |  |  |  |
| 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  |        |  |  |  |  |
| 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      |  |  |  |  |
| 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?   |        |  |  |  |  |
| 3. Any significant results?  |        |  |  |  |  |
| If yes, detail (if not detailed under recent disease problems).  AGD associated mortality following per              | roxide |  |  |  |  |
| Vet diagnosed the fish with having discrete mixed gill pathology.  |        |  |  |  |  |
| Records checked between: 10/2020 - 10/09/2021.   |        |  |  |  |  |

| FHI 059, Version 13                                  |                                     | Issued by: FHI  |          |            | Date o        | of issue | : 12/05/2020 |
|--|-------------------------------------|---|----------|------------|---------------|----------|--------------|
| Case Number:   | 2021-0330                           |   | Site No: | FS0517     |               | Insp:    |              |
| Date of Visit  | 15/09/2021                          |   | No of m  | ovements/s | supp./dest.   |          | Score        |
| Live fish movements                                  |                                     |   | 0        | 1-5        | 6-10          | >10      |              |
| Movements on (from out                               | Frequency of m                      | novements on from equivalent MS                                       | 0        | 5          | 10            | 14       | 0            |
| with GB) of susceptible species                      |                                     | novements on from equivalent zone or                                  | 0        | 9          | 18            | 26       | 0            |
| opeo.ee  | Number of supp                      | ncluding third country  | 0        |            |               | 14       | 0            |
| Movements off  |                                     |   | I 0      |            |               | 10       | 2            |
| Movements off  | Frequency of m<br>Number of dest    |   | 0        |            | 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 b   | ed (secure water supply through porehole)                             | 0        |            |               |          |              |
| susceptible to same diseases)                        | farms upstream                      | or in a coastal zone with category I<br>n or within 1 tidal excursion | 1        | 2          | 4             |          | 2            |
|  | farms upstream                      | or in a coastal zone with category III<br>or within 1 tidal excursion | 1        | 3          | 6             |          |              |
|  |                                     | or in a coastal zone with category V<br>n or within 1 tidal excursion | 1        | 4          | 8             |          |              |
| Management practices                                 |                                     |   | None     | Secure     | Unsecure      |          |              |
| Water contacts with processors                       | Any processing                      | plant discharging into adjacent waters                                | 0        | 1          | 2             |          | 0            |
| On farm processing within the rules of the directive | No on farm pro                      | •   | 0        |            |               |          |              |
|  | Processing own                      | n fish (re-cycling risk)  | 1        |            |               |          | 1            |
|  | Processing fish                     | 2   |          |            |               |          |              |
|  | Processing fish<br>equivalent statu | 4   |          |            |               |          |              |
|  | Processing fish                     | from Category III farm  | 8        |            |               |          |              |
|  | Processing fish                     | from Category V farm  | 10       |            |               |          |              |
| Disposal of fish and fish by-                        | Site's own wast                     | te only processed.  | 0        | 1          |               |          |              |
| products   | Common proce                        | esses with other farms  | 3        |            |               |          | 3            |
|  | Collection point                    | t for waste from other farms  | 5        |            |               |          |              |
| Use of unpasteurised feeds                           | No feeding of u                     | npasteurised feed   | 0        | i          |               |          | 0            |
|  | Feeding unpast                      | teurised feed   | 5        | 1          |               |          |              |
| Biosecurity  |                                     | Number of sites   | 1        | 2 or 3     | ≥ 4           |          |              |
| Contacts with other sites                            | Sites operating                     | from single shorebase   | 0        | 1          | 2             |          | 1            |
|  | Sites sharing st                    | taff and equipment  | 0        | 1          | 2             |          | 1            |
| Disinfection of equipment between sites, use of      | Yes                                 |   | 0        |            |               |          |              |
| footbaths etc  | No                                  |   | 1        |            |               |          | 1            |
| CoGP/Regulator                                       |                                     |   |          |            |               |          |              |
| Practices in accordance with regulator or industry   | Yes                                 |   | 0        |            |               |          | 0            |
| code of practice                                     | No                                  |   | 3        |            |               |          |              |
| Platform access to cages                             | Yes                                 |   | 0        |            |               |          | 0            |
|  | No                                  |   | 2        |            |               |          |              |
|  |                                     |   |          |            | Total<br>Rank |          | 15<br>LOW    |

| FHI 059, Version 13                                      |                            | Issued by   | /: FHI                   | Date of iss   | ue: 12/05/2020 |
|--|----------------------------|---|--------------------------|---|----------------|
| Case No:   | 2021-0330                  |   | Site No:                 | FS0517  |                |
| Sea Lice Inspection (S                                   | Seawater Sites Only)       |   |                          |   |                |
| 1. Has the site experien                                 | nced sea lice problems     | in the previous 4 years?                                  |                          |   | N              |
| 2. Is the CoGP Farm M                                    | anagement Area (or ed      | quivalent) fallowed synchr                                | ronously on a single y   | ear class basis?  | Υ              |
|  | mectin benzoate) as v      |   | •                        | cluding deltamethrin,<br>chanical control measures, and | Υ              |
| 4. Is there a signed doo<br>Management Area (or e        | _                          | ement agreement or stater                                 | ment relevant to the s   | site and CoGP Farm                                      | Υ              |
| 5. Are sea lice count re                                 | cords available for insp   | pection? (Legal SSI, CoGF                                 | P Annex 6)               |   | Y              |
| 6. Do records adequate                                   | ely reflect the required   | standard specified in the S                               | SSI and the CoGP? (L     | egal SSI, CoGP Annex 6)                                 | Υ              |
| 7. Are sea lice ( <i>L. salme</i> records are inspected? |                            | ow the suggested criteria t                               | for treatment in the C   | oGP during the period that                              | Υ              |
|  |                            | nonis) numbers per fish be<br>od that records are inspect |                          | above (prior to w/b 10/6/19) or                         | N              |
| If yes, have these been                                  | reported to the Fish H     | lealth Inspectorate? If no,                               | FHI see comment.         |   | N/A            |
| 9. Is C. elongatus infes                                 | tation at a level which    | is considered to cause sig                                | nificant welfare probl   | lems? (CoGP 4.3.81, 5.3.50)                             | N              |
| •  |                            |   |                          | levels have exceeded the tions? (CoGP 4.3.82, 5.3.51)   | N/A            |
| 11. Has any other actio                                  | n been taken (where a      | pplicable)?   |                          |   | Y              |
| •  |                            | s taken had a significant in                              |                          |   | Υ              |
|  |                            | out in cooperation betwee                                 |                          |   | Y              |
| 14. Is there a harvesting sea lice?                      | g strategy for the site, v | where fewer populations o                                 | or part populations are  | e held without treatment for                            | Y              |
| 15. Is there a site speci scenarios during the es        |                            |   | points describing set    | actions to deal with recognised                         | Υ              |
| 16. Do the sea lice leve                                 | els observed on stocks     | reflect sea lice count data                               | ? If no please detail r  | reasons.  | Υ              |
|  |                            |   |                          |   |                |
|  |                            |   |                          |   |                |
| Containment Inspection                                   |                            | ro duo to prodotoro in the                                | ourrent or provious p    | roduction evolog?                                       | N              |
| · ·  |                            | ge due to predators in the or<br>he predation experienced |                          | •   | IN<br>V        |
| Predator net   | e to miligate against t    | ne predation experienced                                  | on site: (Detail belov   | *)  |                |
| enclosing the pen  |                            |   |                          |   |                |
| group  |                            |   |                          |   |                |
| If other, detail below:                                  |                            |   |                          |   |                |
|  |                            |   |                          |   |                |
| •  | •                          | erienced on or in the vicin                               | ity of the site since th | e last FHI inspection?                                  | N              |
| If Yes proceed with que                                  | ·                          | •   |                          |   |                |
| 4. Have these been rep                                   |                            |   |                          |   |                |
| · ·  |                            | rthwith (where they exist)?                               | •                        | •   |                |
| 6. Have these been rep                                   | orted to the SSPO and      | d local fisheries trusts forth                            | with (where they exis    | st)? (CoGP – 4.4.37, 5.4.17)                            |                |
| 7. Were methods (if any                                  | y) used to recover esca    | apees? If yes give detail                                 |                          |   |                |
| 8. If all nets were deplo                                | oved was this action ac    | greed with local wild fish in                             | terests and was pern     | nission given by Scottish                               |                |
| Ministers? (Legal, CoG                                   | P – 4.4.38, 5.4.18)        |   | -                        |   |                |
|  |                            | mise the risk of further esc                              | apes? (Not covered       | in code but could                                       |                |
| be considered under                                      | •                          | egards to containment? If r                               | no nlease detail reas    | con(s)  | Y              |
| 10. 10 the one moperter                                  | a do oddolactory with re   | agardo to contaminent: Il I                               | no, picuse detail leas   | (S)   | -              |
|  |                            |   |                          |   |                |

| FHI 059, Version 13  | Issued by: FHI   | Date of issue: 12/05/2020 |
|--|--|---------------------------|
| Case No: 2021-0330   | Site No: FS0517  |                           |
| Date of Visit: 15/09/20  | 21 Inspector:  |                           |
| Point of Compliance  |  |                           |
| Is the farm under inspection locate  If N no further questions require some  | •  | Y                         |
| If N, no further questions require com   | ipietion.  |                           |
| <ol> <li>Has a current farm management a</li> <li>Is the current FMAg/S available for</li> <li>Does the FMAg/S identify the releving</li> <li>Does the FMAg/S identify the fish f</li> </ol> | vant farm management area?<br>farm site(s) to which it applies?<br>of commencement of the agreement or staten  | ed? Y Y Y Y               |
| Arrangements for Fish Health Mana<br>8. Does the FMAg/S identify the mininfarm?  | agement<br>mum health standards for the stocks to be intro   | oduced to the area or Y   |
| 10. Does the FMAg/S identify the spe   | cination requirements for stocks held in the area<br>ecies of fish which may be stocked into the area<br>ximum stocking density of any pen on any farm | a or farm?                |
| 12. Does the FMAg/S identify the arrafish farm in the area or the individual   | angements for the storage and disposal of any farm?  | dead fish from any        |
| Arrangements for The Managemen<br>13. Does the FMAg/S identify arrange   | nt of Sea Lice<br>ements for the sharing of data on sea lice numl  | bers and treatments?      |
| 14. Does the FMAg/S identify the ava of statement?   | ailability and the use of medicines on farms cov   | ered by the agreement     |
| 15. Does the FMAg/S identify any req<br>lice on farms in the area or individual  | quirements for the sensitivity testing of available farms?   |                           |
| 16. Does the FMAg/S identify the circused on farms in the area or individual   | cumstances under which biological controls and<br>al farms?  | d cleaner fish are to be  |
|  | angements for synchronous treatments on farm   | ns within the area?       |
| Live Fish Movements  18. Does the FMAg/S identify the circ area or farm?   | cumstances when live fish may be introduced o  | r removed from the        |
| 19. Does the FMAg/S identify the arra or individual farms?   | angements for the movement of live fish on and   | d off sites in the area   |

| Harvesting 20. Does the FMAg/S identify acceptable harvest practices on farms in the area or individual farms?  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? 22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement?  23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?  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?  Management and operation 25. Is the fish farm being managed and operated in accordance with the agreement or statement?  26. What is the version no/date of issue of the FMAg/S?  Site staff advised to update the FMS with a date for review. | FHI 059, Version 13   | Issued by: FHI   | Date of issue: 12/05/2020 |
|--|---|--|---------------------------|
| 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?  22. Does the FMAg/S identify whether one or more year classes may be stocked onto sites covered by the agreement or statement?  23. Does the FMAg/S identify whether broodstock or potential broodstock are to be kept on any site covered by the agreement or statement?  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?  Management and operation  25. Is the fish farm being managed and operated in accordance with the agreement or statement?  Y  21/07/2021  | _   | ble harvest practices on farms in the area or indi   | vidual farms?             |
| 24. Does the farm management agreement include arrangements for persons to become, or cease to be, parties to the agreement?  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?  27/07/2021   | 21. Does the FMAg/S identify the date date when a farm or area may be rested 22. Does the FMAg/S identify whether agreement or statement?  23. Does the FMAg/S identify whether | ocked? one or more year classes may be stocked onto some or more year classes may be stocked onto some or more year classes may be stocked onto some or more year. | sites covered by the      |
| 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?  21/07/2021   | 24. Does the farm management agree  |  | me, or cease to be, N/A   |
| 26. What is the version no/date of issue of the FMAg/S?  21/07/2021  | Management and operation  |  |                           |
| Site staff advised to update the FMS with a date for review.   |   |  | statement? Y              |
|  |   |  |                           |

Site No: FS0517

Case No: 2021-0330

Nature of non-compliance:

Action taken (FHI):

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

|                                  |                          | _        |                      |                |                | _       |      |                      |
|----------------------------------|--------------------------|----------|----------------------|----------------|----------------|---------|------|----------------------|
| Case No:                         | 2021-0330                |          |                      | Date of visit: | 15/09/2021     |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
| Site No:                         | FS0517                   |          |                      | Inspector:     |                |         |      |                      |
| D                                | <b>F</b>                 |          |                      | D-             | 4£NI-4:6       | 4:      |      |                      |
| Results Summary                  | Freq.                    | Database | lnon                 |                | te of Notifica |         | lnon | and .                |
|                                  |                          | Database | Insp                 | Phone          | Insp           | Writing | Insp | 2 <sup>nd</sup> Insp |
|                                  |                          |          |                      |                |                |         |      |                      |
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|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
| Damant Communication             |                          |          |                      |                |                |         |      |                      |
| Report Summary                   | Dete                     | laas     | ond .                |                |                |         |      |                      |
| Case Type                        | Date                     | Insp     | 2 <sup>nd</sup> Insp |                |                |         |      |                      |
| ECI, CNI, SLI<br>Case Completion | 23/11/2021<br>28/01/2022 |          |                      |                |                |         |      |                      |
| Case Completion                  | 20/01/2022               |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |
|                                  |                          |          |                      |                |                |         |      |                      |





#### SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 FB0447
 DATE OF VISIT
 15/09/2021

 SITE NO
 FS0517
 SITE NAME
 Ardessie A

 CASE NO
 20210330
 INSPECTOR

## Case completion report

A recommendation in relation to the above case was made for implementation by 08/12/2021. Following submission of the required documentation, evidence has now been provided to Marine Scotland to demonstrate that the recommendation has 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: 28/01/2022
Fish Health Inspector

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

Medicine records were inspected and found to be adequately maintained.

## Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory with regards to parasites, containment and escapes.

The farm management agreement/statement was inspected and found to be inadequately maintained. Please see the attached annex detailing the points that must be addressed.

Please ensure that these points have been addressed by 08 December 2021. 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:

Fish Health Inspector

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

Date: 23/11/2021

## 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<sup>(1)</sup> 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:

• The statement or agreement must identify the date of review (farm management agreements or statements must be reviewed at least every two years).

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

| FHI 059, Version 13  | Į:                           | ssued by: FHI                          | Date of issue: 12/05/2020   |
|--|------------------------------|--|---|
| Case No: 2021-0331   |                              |  | Date of visit: 15/09/2021   |
| Time spent on site:  | 4.5 hours                    | Main Ins                               | pector:   |
| Site No: FS0675 Business No: FB0447  | Site Name:<br>Business Name: | Ardessie B<br>Wester Ross Fisheries Lt | d   |
| Case Types: 1 ECI  | 2 CNI 3 SLI                  | 4 VMD 5 DIA                            | 6   |
| Water Temp (°C): 13.7  | Thermometer No:              | T148                                   | FHI 045 completed   |
| Observations:  | Region: HI                   | Water type: S                          | CoGP MA M-14  |
| Dead/weak/abnormally behavir<br>Clinical signs of disease obser-<br>Gross pathology observed?<br>Diagnostic samples taken? | -                            | Y If yes, see additional               | information/clinical score sheet.<br>information/clinical score sheet.<br>information/clinical score sheet. |
| UNI/REG only - if unable to car  | ry out intended visit detail | reason below:                          |   |
|  |                              |  |   |
|  |                              |  |   |

### **Additional Case Information:**

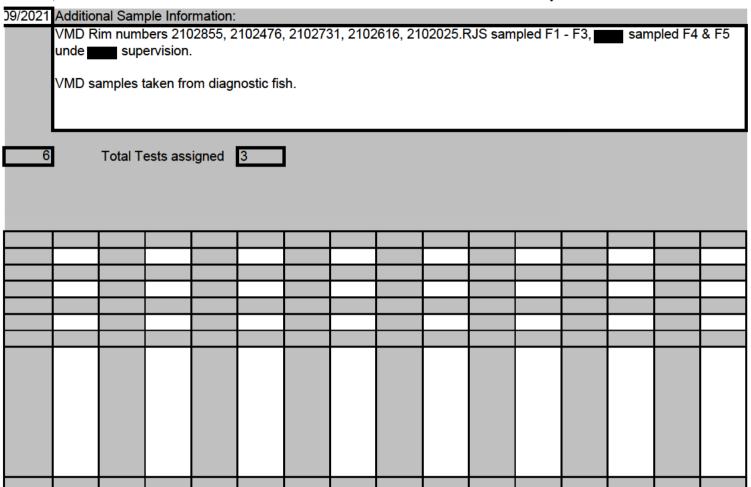
On the date of inspection mortality was 1,800 fish for the site, with the highest numbers of mortality occurring in the middle of the pen group. Moribund fish were near the surface and particularly in pen corners. A number of fish were also observed gasping on the surface or working their opercula. Pens were being aerated. Lions Mane jelly fish observed on site and some fish were seen to have signs of interaction with jellyfish tentacles. Upon inspection of the gills of the fish removed, evidence of mild gill damage was observed, attributed to PGD by site staff. Site began H2O2 treatment on the day of inspection based on veterinary advice. The company currently operates both Ardessie A and B as one site. Veterinary reports are for the two sites referenced as one. Site advised that when conducting veterinary site visits to distinguish between the two sites. A bung was observed missing on one of the mort bins stored at the shore base, site staff reminded to ensure all bungs remain in place for biosecurity. A seal was observed near the site but predator mitigation was in place. Observed cleanerfish mortality is low.

Inspection and remote paperwork undertaken by supervised by VMD samples by Sampling F1 - F3 by and F4 & F5 by supervised by supervised by Supervised by Supervised with FMS which now meets the requirement.

| FHI 059, Version 13                |                  | _               | Issu            | ed by: FHI       | _               |               | Date of issue    | e: 12/05/2020 |
|------------------------------------|------------------|-----------------|-----------------|------------------|-----------------|---------------|------------------|---------------|
| Case No:                           | 2021-0331        |                 | Site No:        | FS0675           |                 |               |                  |               |
| Date of Visit:                     |                  | 15/09/2021      | ]               |                  | Inspector(s):   |               |                  |               |
| Registration/Autho                 |                  |                 |                 |                  |                 |               |                  |               |
| 1. Business/site deta              | ails summary     | checked by s    | ite representa  | ative?           |                 |               | Υ                |               |
| 2. Changes made to                 | details?         |                 |                 |                  |                 |               | Υ                |               |
| Site Details (includ               | e cleaner fis    | h for all secti | ions)           |                  |                 | _             |                  |               |
| Total No facilities                |                  | 14              | Facilities sto  | cked             | 11              | No facilitie  | s inspected      | 14            |
| Species                            | SAL              | Wrasse          |                 |                  |                 |               |                  |               |
| Age group                          | 2020 S0          | Wild            |                 |                  |                 |               |                  |               |
| No Fish                            | 114,728          | 1,825           |                 |                  |                 |               |                  |               |
| Mean Fish Wt.                      | 2.4kg            | 120g            |                 |                  |                 |               |                  |               |
| Next Fallow Date (S                |                  | 03/2022         |                 | Next Input Da    | ite (Site)      | 20/5/2022     |                  |               |
| Recent (last 4 wks)                | disease probl    | ems?            |                 | Y                | Any escapes     | (since last   | visit)?          | N             |
| ` '                                |                  |                 | are healthy a   | at the moment    |                 | •             | •                |               |
|                                    |                  |                 |                 |                  |                 |               |                  |               |
| Movement Records                   |                  |                 |                 |                  |                 |               |                  |               |
| Movement records                   |                  | r inspection?   |                 |                  |                 |               | 00/40/0000       | Y             |
| 2. Date of last inspec             |                  |                 |                 |                  |                 |               | 20/10/2020       |               |
| 3. Are records comp                |                  | •               |                 |                  |                 |               |                  | Y             |
| 4. Are movement red                |                  |                 |                 | •                |                 |               |                  | Y             |
| <ol><li>Are records comp</li></ol> |                  |                 |                 |                  |                 |               |                  | Y             |
| 6. Are health certification        | ates for introd  | luctions (outw  | ith GB) availa  | able?            |                 |               |                  | N/A           |
| Transport Records                  |                  |                 |                 |                  |                 |               |                  |               |
| 1. Are any movemen                 | nts carried out  | by (or on bel   | half) of the bu | isiness (not usi | ing a STB)?     |               |                  | N             |
| If yes, is there a syst            | tem in place f   | or maintenan    | ce of transpor  | rtation records  | ?               |               |                  |               |
| Mortality Records                  |                  |                 |                 |                  |                 |               |                  |               |
| 1. Mortality records a             | available for ir | nspection?      |                 |                  |                 |               |                  | Y             |
| 2. How are mortalitie              |                  | •               |                 |                  | Ensiled - on s  | site          |                  |               |
| If other detail:                   | Ensiled at Co    |                 |                 |                  |                 |               |                  |               |
| 3. Mortality records of            |                  |                 | ered?           |                  |                 |               |                  | Y             |
| 4. Recent mortality (              | •                | •               |                 | 18% (4798) We    | eek 35 0.26%    | (299). Weel   | k 34 0.12% (1    | 38). Week     |
| 5. Evidence of recen               |                  | tvpical mortal  |                 | (112)            |                 | (===),        | (1               | Y             |
| If yes, facility nos/no            |                  | ••              |                 | /reason:         |                 |               |                  |               |
| D11 (1126), D12 (64                | • • •            | •               |                 |                  | 98) D18 (460    | ) D19 (509)   | ) D20 (148) I    | 021 (87) Gill |
| health.                            |                  |                 |                 | (101), 217 (0    | 00), 2 10 (100  | ), 2 10 (000) | ), B20 (1.10), I |               |
| 6. Any other peaks in              | n mortality du   | ring period ch  | necked?         |                  |                 |               |                  | N             |
| If yes, detail:                    |                  |                 |                 |                  |                 |               |                  |               |
| 7. Have increased (d               | ınexplained) ı   | mortalities be  | en reported to  | vet or FHI?      |                 |               |                  | N/A           |
| If yes, detail action:             |                  |                 |                 |                  |                 |               |                  |               |
| 8. Have 'mortality ev              | ents' been re    | ported to FHI   | ? If no, enter  | details on mort  | ality events sh | neet.         |                  | Y             |

| Treatments and Medicines Records  |
|---|
| 1. Recent treatments (see comment)?   |
| H2O2,   |
| If yes, detail: T.M.S.  |
| 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?  |
| Discounties Bossel I.   |
| Biosecurity Records   |
| Biosecurity records available for inspection?  Yellow the records available for inspection?   |
| 2. Has the manner and frequency of mortality removal, recording and safe disposal been considered?  |
| 3. Has the manner and period in which the APB will notify Scottish Ministers or veterinary professional of any increased (unexplained) mortality at the site been included? |
| 4. Has the action that will be taken in the event that the presence or suspicion of the presence of a listed disease  |
| is detected been included and <i>how</i> and <i>when</i> that will be notified to Scottish Ministers?   |
| 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or higher  |
| health status, certification if required)?  |
|   |
| 6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minimise  |
| transmission of disease been covered (movement of staff, visitors, equipment, live or dead fish etc.)?  |
| 7. Is documentation available regarding the measures in place to maintain the physical containment of   |
| aquaculture animals held on site?   |
| 8. Have the biosecurity procedures been adequately implemented on site?   |
| If no, detail:  |
| Results of Surveillance   |
| 1. Has any animal health surveillance been carried out by, or on behalf of, the business?   |
| 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: 20/10/20 - 10/09/21  |

| П               | 11 009, Version 13          |            |            |          |            |            |          | 155 | ueu by. F  | 111 |        |             |       |
|-----------------|-----------------------------|------------|------------|----------|------------|------------|----------|-----|------------|-----|--------|-------------|-------|
|                 | Case no:                    | 2021-03    | 331        | Site No: |            | FS0675     |          |     | Date of vi |     | 15/0   | 09/2021     | 15/0  |
|                 | Priority samples:           | VI         |            | ВА       |            | РА         |          | MG  |            | HI  |        |             |       |
|                 | Time sampling starts/ends:  |            | 80:00      |          | 0:00       |            | Inspecto | or: |            |     | VMD No | ). <b> </b> | 5     |
|                 | Environmental conditions:   | 1          | Indoors    | 2        |            | 3          |          | 4   | $\Box$     | 5   |        |             |       |
|                 | Summary samples             | HIST       | Y          | ВА       | Y          | MG         | Y        | VI  |            | PA  |        | Total Sa    | mples |
|                 |                             |            |            |          |            |            |          |     |            |     |        |             |       |
| A               | dd Fish/Pools - click       |            |            |          |            |            |          |     |            |     |        |             |       |
|                 | Pool/Fish No                | F1         | F2         | F3       | F4         | F5         | P1       |     |            |     |        |             |       |
|                 | Fish nos                    | 1          | 2          | 3        | 4          | 5          |          |     |            |     |        |             |       |
|                 | Pool Group                  |            |            |          |            |            |          |     |            |     |        |             |       |
|                 | Species                     | SAL        | SAL        | SAL      | SAL        | SAL        |          |     |            |     |        |             |       |
|                 | Average weight              | 2.4kg      | 2.4kg      | 2.4kg    | 2.4kg      | 2.4kg      |          |     |            |     |        |             |       |
|                 | Sex                         | N/A        | N/A        | N/A      |            | N/A        |          |     |            |     |        |             |       |
|                 | Water Type                  | SW         | SW         | SW       | SW         | SW         |          |     |            |     |        |             |       |
|                 |                             |            |            |          |            |            |          |     |            |     |        |             |       |
|                 |                             |            |            |          |            |            |          |     |            |     |        |             |       |
|                 |                             |            |            |          |            |            |          |     |            |     |        |             |       |
|                 |                             | ج          | ے          | 5        | ۶          | Ε.         |          |     |            |     |        |             |       |
| <u> Details</u> |                             | arı        | ari        | Farm     | ari        | arı        |          |     |            |     |        |             |       |
| )et             |                             | , Y        | \<br>F     | γF       | ,<br>F     | γ          |          |     |            |     |        |             |       |
| $\overline{}$   |                             | Corry Farm | Corry Farm | Corry    | Corry Farm | Corry Farm |          |     |            |     |        |             |       |
| toc             | Stock Origin<br>Facility No | D17        | D17        | D17      | D17        | D17        |          |     |            |     |        |             |       |
| S               | I acility 140               | ווט        | ווט        | ווע      | ווע        | ווע        |          |     |            |     |        |             |       |



FHI 059, Version 13 Issued by: FHI Date of issue: 12/05/2020

| Case no:                    | 2021-0331                          |           | Site No | ):      | FS067  | 5      | Me | Method of killing: Per |         | Percus   | ercussive |  |
|-----------------------------|------------------------------------|-----------|---------|---------|--------|--------|----|------------------------|---------|----------|-----------|--|
| Date of visit:              | 15/09/2021                         | l         | Inspec  | tor(s): |        |        |    | s                      | heet Re | elevant: | Y         |  |
| <b>S</b> for strong present | ce: M for medium presence: W for v | veak pres | ence    |         |        |        |    |                        |         |          |           |  |
| Fish Number                 |                                    | F1        | F2      | F3      | F4     | F5     |    |                        |         |          |           |  |
|                             | r death (if > 45 minutes)          | 1 hour    | 1 hour  | 1 hour  | 1 hour | 1 hour |    |                        |         |          |           |  |
| External Signs              |                                    |           |         |         |        |        |    |                        |         |          |           |  |
| Behaviour                   | Moribund                           | S         | S       | S       | S      | S      |    |                        |         |          |           |  |
|                             | Lethargic                          | S         | S       | S       | S      | S      |    |                        |         |          |           |  |
|                             | Hanging vertical                   |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Spiralling                         |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Flashing                           |           |         |         |        |        |    |                        |         |          |           |  |
| Darda                       | Loss of equilibrium                |           |         |         |        |        |    |                        |         |          |           |  |
| Body                        | Dark Distended abdomen             |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Anorexic                           |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Scale Oedema                       |           |         |         |        |        |    |                        |         |          |           |  |
| Opercula                    | Shortened                          |           |         |         |        |        |    |                        |         |          |           |  |
| o por ouru                  | Flared                             |           |         |         |        |        |    |                        |         |          |           |  |
| Haemorrhaging               | Throat                             |           |         |         |        |        |    |                        |         |          |           |  |
| gg                          | Ventrum                            |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Base of fins                       |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Elsewhere                          |           |         |         |        |        |    |                        |         |          |           |  |
| Eyes                        | Exophthalmic                       |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Enophthalmic (sunken)              |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Cataract                           |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Haemorrhagic                       |           |         |         |        |        |    |                        |         |          |           |  |
| Gills                       | Pale                               |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Zoned                              |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Necrotic                           |           |         |         |        |        |    |                        |         |          |           |  |
| Lesions                     | Flank                              |           |         |         |        |        |    |                        |         |          |           |  |
| Mont                        | Elsewhere                          |           |         |         |        |        |    |                        |         |          |           |  |
| Vent                        | Inflamed                           |           |         |         |        |        |    |                        |         |          |           |  |
| Lice Load                   | Trailing faeces Estimate numbers   |           |         |         |        |        |    |                        |         |          |           |  |
| Lice Load                   | Estimate numbers                   |           |         |         |        |        |    |                        |         |          |           |  |
| Internal Signs              |                                    |           |         |         |        |        |    |                        |         |          |           |  |
| Ascites                     | Clear                              |           |         |         |        |        |    |                        |         |          |           |  |
| , 1001100                   | Bloody                             |           |         |         |        |        |    |                        |         |          |           |  |
| Oedema                      | In tissues                         |           |         |         |        |        |    |                        |         |          |           |  |
| Heart                       | Pale/anaemic                       |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Granulomas                         |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Deformed                           |           |         |         |        |        |    |                        |         |          |           |  |
| Liver                       | Petechial haem                     |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Gross haem                         |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Tissue breakdown                   |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Enlarged                           |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Colour number(s)                   | 4         | 4       | 4       | 5      | 4      |    |                        |         |          |           |  |
|                             | Granulomas                         |           |         |         |        |        |    |                        |         |          |           |  |
| Pyloric caeca               | Lesions<br>Petechial haem          |           |         |         |        |        |    |                        |         |          |           |  |
| r yionic caeca              | Tubules mauve                      |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Lack of fat                        |           |         |         |        |        |    |                        |         |          |           |  |
| Spleen                      | Enlarged                           |           |         |         |        |        |    |                        |         |          |           |  |
| - р. с. с.                  | Granulomas                         |           |         |         |        |        |    |                        |         |          |           |  |
| Gut                         | No food present                    |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Yellow pseudo-faeces               | S         | S       | S       | S      | S      |    |                        |         |          |           |  |
|                             | External haem                      |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Internal haem                      |           |         |         |        |        |    |                        |         |          |           |  |
| Body wall                   | Haemorrhaging                      |           |         |         |        |        |    |                        |         |          |           |  |
| Swim bladder                | Haemorrhaging                      |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Fluid filled                       |           |         |         |        |        |    |                        |         |          |           |  |
| Kidney                      | Swollen                            |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Grey                               |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Granular                           |           |         |         |        |        |    |                        |         |          |           |  |
|                             | Liquefied                          |           |         |         |        |        |    |                        |         |          |           |  |
| General                     | Parasites present                  |           |         |         |        |        |    |                        |         |          |           |  |

Case no: 2021-0331

Date of visit: 15/09/2021

| S for strong presence. W for welding presence. W for w Time sampled after death (if > 45 minutes) External Signs External Sign |                | M.C. P. W.C.                       |   |               |   |  |  |  |  |
|--|----------------|------------------------------------|---|---------------|---|--|--|--|--|
| Time sampled after death (if > 4 minutes) External Signs Behaviour Lethargic Hanging vertical Spiralling Flashing Loss of equilibrium Body Dark Anorexic Scale Ocdema Apercula Shortened Flared Hamming Throat Flared Hamming Throat  Exemphitabilite Exemphit |                | ce: M for medium presence: W for v | ^ | _             |   |  |  |  |  |
| External Signs   |                | r death (if > 45 minutes)          |   | _             |   |  |  |  |  |
| Behaviour   Moribund   |                | r death (ii > 45 minutes)          |   | _             |   |  |  |  |  |
| Lethargic  |                | Moribund                           |   |               |   |  |  |  |  |
| Hanging vertical   Spiralling   | Dellavioui     |                                    |   | _             | _ |  |  |  |  |
| Spiralling   |                |                                    |   |               |   |  |  |  |  |
| Flashing   |                |                                    |   | $\overline{}$ |   |  |  |  |  |
| Loss of equilibrium  |                |                                    |   |               |   |  |  |  |  |
| Body   |                |                                    |   | $\overline{}$ |   |  |  |  |  |
| Distended abdomen  | Body           |                                    |   |               |   |  |  |  |  |
| Anorexic   Scale Oedema   Scale Oedema   Shortened     |                |                                    |   | $\overline{}$ |   |  |  |  |  |
| Special   Shortened   Shorte   |                |                                    |   |               |   |  |  |  |  |
| Flared   |                | Scale Oedema                       |   |               |   |  |  |  |  |
| Haemorrhaging   Throat   | Opercula       | Shortened                          |   |               |   |  |  |  |  |
| Ventrum  |                | Flared                             |   |               |   |  |  |  |  |
| Ventrum  | Haemorrhaging  | Throat                             |   |               |   |  |  |  |  |
| Elsewhere  |                | Ventrum                            |   |               |   |  |  |  |  |
| Elsewhere  |                | Base of fins                       |   |               |   |  |  |  |  |
| Enophthalmic (sunken)  |                |                                    |   |               |   |  |  |  |  |
| Enophthalmic (sunken)  | Eyes           | Exophthalmic                       |   |               |   |  |  |  |  |
| Haemorrhagic   |                |                                    |   |               |   |  |  |  |  |
| Gills  |                |                                    |   |               |   |  |  |  |  |
| Zoned  |                |                                    |   |               |   |  |  |  |  |
| Necrotic   | Gills          |                                    |   |               |   |  |  |  |  |
| Lesions  |                |                                    |   |               |   |  |  |  |  |
| Elsewhere  |                |                                    |   |               |   |  |  |  |  |
| Vent         Inflamed         Intalling faeces         Internal Signs  | Lesions        |                                    |   |               |   |  |  |  |  |
| Trailing faeces  |                |                                    |   |               |   |  |  |  |  |
| Lice Load  | Vent           |                                    |   | _             |   |  |  |  |  |
| Internal Signs   |                |                                    |   |               |   |  |  |  |  |
| Ascites   Clear  | Lice Load      | Estimate numbers                   |   | _             |   |  |  |  |  |
| Ascites   Clear  |                |                                    |   |               |   |  |  |  |  |
| Bloody   |                |                                    |   | _             |   |  |  |  |  |
| Oedema         In tissues           Heart         Pale/anaemic           Granulomas  | Ascites        |                                    |   |               |   |  |  |  |  |
| Heart  | 0              |                                    |   | _             |   |  |  |  |  |
| Granulomas   |                |                                    |   | _             |   |  |  |  |  |
| Deformed    | Heart          |                                    |   | $\rightarrow$ |   |  |  |  |  |
| Liver  |                |                                    |   | _             |   |  |  |  |  |
| Gross haem   | Liver          |                                    |   | _             |   |  |  |  |  |
| Tissue breakdown   Enlarged   Colour number(s)      | Liver          |                                    |   | _             |   |  |  |  |  |
| Enlarged   |                |                                    |   |               |   |  |  |  |  |
| Colour number(s)   |                |                                    |   |               |   |  |  |  |  |
| Granulomas Lesions Pyloric caeca Petechial haem Tubules mauve Lack of fat Spleen Enlarged Granulomas Gut No food present Yellow pseudo-faeces External haem Internal haem Body wall Haemorrhaging Swim bladder Haemorrhaging Fluid filled Kidney Granular Granular Liquefied General Parasites present   |                | Colour number(e)                   |   |               |   |  |  |  |  |
| Lesions  |                |                                    |   | _             |   |  |  |  |  |
| Pyloric caeca Petechial haem Tubules mauve Lack of fat Spleen Enlarged Granulomas Gut No food present Yellow pseudo-faeces External haem Internal haem Internal haem Swim bladder Haemorrhaging Fluid filled Kidney Granular Liquefied General Parasites present   |                |                                    |   |               |   |  |  |  |  |
| Tubules mauve Lack of fat  Spleen Enlarged Granulomas Gut No food present Yellow pseudo-faeces External haem Internal haem Body wall Haemorrhaging Swim bladder Haemorrhaging Fluid filled Kidney Granular Liquefied General  Tubules mauve  Internal  | Pyloric caeca  |                                    |   |               |   |  |  |  |  |
| Lack of fat  | . yioiio cacca |                                    |   |               |   |  |  |  |  |
| Spleen         Enlarged  |                |                                    |   |               |   |  |  |  |  |
| Granulomas   | Spleen         |                                    |   |               |   |  |  |  |  |
| Gut         No food present  |                |                                    |   |               |   |  |  |  |  |
| Yellow pseudo-faeces   | Gut            |                                    |   |               |   |  |  |  |  |
| External haem  |                |                                    |   |               |   |  |  |  |  |
| Internal haem  |                |                                    |   |               |   |  |  |  |  |
| Body wall         Haemorrhaging  |                | Internal haem                      |   |               |   |  |  |  |  |
| Swim bladder         Haemorrhaging   | Body wall      |                                    |   |               |   |  |  |  |  |
| Fluid filled   |                |                                    |   |               |   |  |  |  |  |
| Kidney         Swollen   |                |                                    |   |               |   |  |  |  |  |
| Grey   | Kidney         |                                    |   |               |   |  |  |  |  |
| Granular Liquefied General Parasites present   |                |                                    |   |               |   |  |  |  |  |
| Liquefied Seneral Parasites present Seneral Se |                |                                    |   |               |   |  |  |  |  |
| General Parasites present  |                |                                    |   |               |   |  |  |  |  |
|  | General        |                                    |   |               |   |  |  |  |  |
| Anaemia  |                | Anaemia                            |   |               |   |  |  |  |  |

| FHI 059, Version 13                                  |                                     | Issued by: FHI  |          |            | Date of       | of issue | : 12/05/2020 |
|--|-------------------------------------|---|----------|------------|---------------|----------|--------------|
| Case Number:   | 2021-0331                           |   | Site No: | FS0675     |               | Insp:    |              |
| Date of Visit  | 15/09/2021                          |   | No of m  | ovements/s | supp./dest.   |          | Score        |
| Live fish movements                                  |                                     |   | 0        | 1-5        | 6-10          | >10      |              |
| Movements on (from out                               | Frequency of m                      | novements on from equivalent MS                                       | 0        | 5          | 10            | 14       | 0            |
| with GB) of susceptible species                      |                                     | novements on from equivalent zone or                                  | 0        | 9          | 18            | 26       | 0            |
|  | Number of supp                      | ocluding third country  | 0        |            |               | 14       | 0            |
| Movements off  |                                     |   | 1 0      |            |               | 10       | 3            |
| Movements on   | Frequency of m<br>Number of dest    |   | 0        |            | 6             | 10       | 3            |
| Exposure via water                                   |                                     | Site contacts   | , 0      | 1-5        | 6-10          |          |              |
| Water contacts with other farms (holding species     | disinfection or b                   | •   | 0        |            |               |          |              |
| susceptible to same diseases)                        | farms upstream                      | or in a coastal zone with category I<br>or within 1 tidal excursion   | 1        | 2          | 4             |          | 2            |
|  | farms upstream                      | or in a coastal zone with category III or within 1 tidal excursion    | 1        | 3          | 6             |          |              |
|  |                                     | or in a coastal zone with category V<br>n or within 1 tidal excursion | 1        | 4          | 8             |          |              |
| Management practices                                 |                                     |   | None     | Secure     | Unsecure      |          |              |
| Water contacts with processors                       | Any processing                      | plant discharging into adjacent waters                                | 0        | 1          | 2             |          | 0            |
| On farm processing within the rules of the directive | No on farm pro                      | •   | 0        |            |               |          |              |
|  | Processing owr                      | n fish (re-cycling risk)  | 1        |            |               |          | 1            |
|  | Processing fish                     | from MS of equivalent status  | 2        |            |               |          |              |
|  | Processing fish<br>equivalent statu | from zone or compartment of us  | 4        |            |               |          |              |
|  | Processing fish                     | from Category III farm  | 8        |            |               |          |              |
|  | Processing fish                     | from Category ∨ farm  | 10       |            |               |          |              |
| Disposal of fish and fish by-                        | Site's own wast                     | e only processed.   | 0        | 1          |               |          |              |
| products   | Common proce                        | sses with other farms   | 3        | 1          |               |          | 3            |
|  | Collection point                    | for waste from other farms  | 5        |            |               |          |              |
| Use of unpasteurised feeds                           | No feeding of u                     | npasteurised feed   | 0        | ĺ          |               |          | 0            |
|  | Feeding unpast                      | teurised feed   | 5        | 1          |               |          |              |
| Biosecurity  |                                     | Number of sites   | 1        | 2 or 3     | ≥ 4           |          |              |
| Contacts with other sites                            | Sites operating                     | from single shorebase   | 0        | 1          | 2             |          | 1            |
|  | Sites sharing st                    | aff and equipment   | 0        | 1          | 2             |          | 1            |
| Disinfection of equipment between sites, use of      | Yes                                 |   | 0        |            |               |          |              |
| footbaths etc  | No                                  |   | 1        |            |               |          | 1            |
| CoGP/Regulator                                       |                                     |   |          |            |               |          |              |
| Practices in accordance with regulator or industry   | Yes                                 |   | 0        |            |               |          | 0            |
| code of practice                                     | No                                  |   | 3        |            |               |          |              |
| Platform access to cages                             | Yes                                 |   | 0        | 1          |               |          | 0            |
|  | No                                  |   | 2        |            |               |          |              |
|  |                                     |   |          |            | Total<br>Rank |          | 15<br>LOW    |

| Case No:   | 2021-0331   | Site No:                  | FS0675                       |           |
|--|---|---------------------------|------------------------------|-----------|
| Sea Lice Inspection (S                                   | Seawater Sites Only)  |                           |                              |           |
| •  | nced sea lice problems in the previous 4 years?   |                           |                              | N         |
| 2. Is the CoGP Farm M                                    | lanagement Area (or equivalent) fallowed synchi   | ronously on a single y    | ear class basis?             | Υ         |
| 3. Does the site have a                                  | ccess to a range of licenced in-feed and bath se  | a lice medications (inc   | cluding deltamethrin,        | Υ         |
| •  | amectin benzoate) as well as access to suitable in a reasonable period of time?                                 | biological and/or mec     | hanical control measures,    | and       |
| 4. Is there a signed doo<br>Management Area (or e        | cumented farm management agreement or stater equivalent)?   | ment relevant to the si   | ite and CoGP Farm            | Υ         |
| 5. Are sea lice count re                                 | cords available for inspection? (Legal SSI, CoGF  | Annex 6)                  |                              | Υ         |
| 6. Do records adequate                                   | ely reflect the required standard specified in the S  | SSI and the CoGP? (L      | egal SSI, CoGP Annex 6)      | Υ         |
| 7. Are sea lice ( <i>L. salmi</i> records are inspected? | onis) record levels below the suggested criteria (CoGP Annex 6)   | for treatment in the Co   | oGP during the period that   | Υ         |
|  | female sea lice ( <i>L. salmonis</i> ) numbers per fish b<br>0/6/19) during the period that records are inspect |                           | above (prior to w/b 10/6/19) | ) or N    |
| If yes, have these been                                  | reported to the Fish Health Inspectorate? If no,  | FHI see comment.          |                              | N/A       |
| 9. Is C. elongatus infes                                 | station at a level which is considered to cause sig   | nificant welfare proble   | ems? (CoGP 4.3.81, 5.3.50    | D) N      |
| •  | eatments been administered or other actions tak<br>reatment or where <i>C. elongatus</i> is considered to       |                           |                              | N/A<br>1) |
| 11. Has any other actio                                  | on been taken (where applicable)?   |                           |                              | Y         |
| •  | eatments or the actions taken had a significant ir  | mpact upon the lice le    | vels recorded?               | Υ         |
| · ·  | ere conducted, carried out in cooperation betwee  |                           |                              | Υ         |
| 14. Is there a harvesting sea lice?                      | g strategy for the site, where fewer populations of   | or part populations are   | held without treatment for   | Y         |
|  | ific written lice management procedure with ways<br>scalation of a sea lice infestation?                        | points describing set a   | actions to deal with recogni | sed Y     |
| 16. Do the sea lice leve                                 | els observed on stocks reflect sea lice count data  | ? If no please detail re  | easons.                      | Y         |
|  |   |                           |                              |           |
| Containment Inspecti                                     | on  |                           |                              |           |
| •  | nced equipment damage due to predators in the   | current or previous pro   | oduction cycles?             | N         |
| •  | ce to mitigate against the predation experienced  |                           | •                            | Υ         |
| Cages are  |   | ·                         |                              |           |
| enclosed by a  |   |                           |                              |           |
| predator net   |   |                           |                              |           |
| If other, detail below:                                  |   |                           |                              |           |
|  |   |                           |                              |           |
| •  | nts or events been experienced on or in the vicin   | ity of the site since the | e last FHI inspection?       | N         |
|  | estions 4 – 9. If No skip to question 10  |                           |                              |           |
| •  | ported to Scottish Ministers?   | ) (C-CD 4 4 27 E 4        | 1.47\                        |           |
|  | ported to local DSFB forthwith (where they exist)?<br>ported to the SSPO and local fisheries trusts forth       | •                         | •                            | \         |
| o. Have these been rep                                   | offed to the 33FO and local fisheries trusts forth  | IWILLI (WITETE LITEY EXIS | i)! (COGF = 4.4.37, 3.4.17   | ,         |
| 7. Were methods (if any                                  | y) used to recover escapees? If yes give detail   |                           |                              |           |
|  |   |                           |                              |           |
|  | oyed was this action agreed with local wild fish in   | terests and was perm      | ission given by Scottish     |           |
| Ministers? (Legal, CoG                                   |   |                           |                              |           |
|  | en to prevent and minimise the risk of further esc  | capes? (Not covered in    | n code but could             |           |
|  | r satisfactory measures of the Act)   |                           |                              |           |
| 10. Is the site inspected                                | d as satisfactory with regards to containment? If   | no, please detail reas    | on(s)                        | Υ         |
|  |   |                           |                              |           |
|  |   |                           |                              |           |

Issued by: FHI

FHI 059, Version 13

Date of issue: 12/05/2020

| FHI 059, Version 13  | Issued by: FHI   | Date of issue: 12/05/2020 |
|--|--|---------------------------|
| Case No: 2021-0331   | Site No: FS0675  |                           |
| Date of Visit: 15/09/2021  | Inspector:   |                           |
| Point of Compliance  1. Is the farm under inspection located v   | within a farm management area?   | N.                        |
| If N, no further questions require comple  | _  | Ÿ                         |
| <ol> <li>Has a current farm management agree</li> <li>Is the current FMAg/S available for instance</li> <li>Does the FMAg/S identify the relevant</li> <li>Does the FMAg/S identify the fish farm</li> </ol> | t farm management area? m site(s) to which it applies? commencement of the agreement or statem   | ed? Y Y Y Y               |
| Arrangements for Fish Health Manager 8. Does the FMAg/S identify the minimularm?   | ement<br>m health standards for the stocks to be intro   | oduced to the area or Y   |
| 10. Does the FMAg/S identify the specie  | ation requirements for stocks held in the area<br>es of fish which may be stocked into the area<br>num stocking density of any pen on any farm | a or farm?                |
|  | gements for the storage and disposal of any rm?  | dead fish from any        |
| Arrangements for The Management of 13. Does the FMAg/S identify arrangement  | of Sea Lice<br>ents for the sharing of data on sea lice numb   | bers and treatments?      |
| 14. Does the FMAg/S identify the availal of statement?   | bility and the use of medicines on farms cov   | ered by the agreement Y   |
| 15. Does the FMAg/S identify any requir lice on farms in the area or individual far  | rements for the sensitivity testing of available rms?  |                           |
| 16. Does the FMAg/S identify the circum used on farms in the area or individual fa   | nstances under which biological controls and<br>arms?  | d cleaner fish are to be  |
|  | gements for synchronous treatments on farm   | ns within the area?       |
| Live Fish Movements  18. Does the FMAg/S identify the circum area or farm?   | nstances when live fish may be introduced o  | r removed from the        |
| 19. Does the FMAg/S identify the arrang or individual farms?   | gements for the movement of live fish on and   | d off sites in the area   |

| FHI 059, Version 13   | Issued b               | y: FHI                                 | Date of            | issue: 12/05/2020 |
|---|------------------------|--|--------------------|-------------------|
| Harvesting 20. Does the FMAg/S identify acceptable ha   | arvest practices on fa | rms in the area or indivi              | dual farms?        | Y                 |
| Fallowing 21. Does the FMAg/S identify the dates by vidate when a farm or area may be restocked                     |                        | ividual farm will be fallow            | and the earliest   | Y                 |
| 22. Does the FMAg/S identify whether one of agreement or statement?   |                        | may be stocked onto sit                | es covered by the  | Y                 |
| 23. Does the FMAg/S identify whether brood covered by the agreement or statement?                                   | dstock or potential br | oodstock are to be kept                | on any site        | Y                 |
| Point of Compliance for Farm Management 24. Does the farm management agreement parties to the agreement?            | _                      | -                                      | e, or cease to be, | N/A               |
| Management and operation 25. Is the fish farm being managed and ope 26. What is the version no/date of issue of the |                        | with the agreement or st<br>21/07/2021 | atement?           | Y                 |
| Site staff advised to update the FMS with a   | date for review.       |  |                    |                   |
|   |                        |  |                    |                   |
|   |                        |  |                    |                   |
|   |                        |  |                    |                   |
|   |                        |  |                    |                   |
|   |                        |  |                    |                   |
|   |                        |  |                    |                   |
|   |                        |  |                    |                   |
|   |                        |  |                    |                   |
|   |                        |  |                    |                   |

Site No: FS0675

Case No: 2021-0331

Nature of non-compliance:

Action taken (FHI):

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

 Case No:
 2021-0331
 Date of visit:
 15/09/2021

 Site No:
 FS0675
 Inspector:

| Results Summary   | Freq. | Date of Notification |      |            |      |            |      |                      |  |
|---|-------|----------------------|------|------------|------|------------|------|----------------------|--|
|   | ·     | Database             | Insp | Phone      | Insp | Writing    | Insp | 2 <sup>nd</sup> Insp |  |
| AGD, P. theridion,<br>Salmon Pox virus PCR                          | 5/5   | 24/09/2012           |      | 22/09/2021 |      | 24/11/2021 |      |                      |  |
| IHN, IPN, ISA, VHS,<br>SAV PCR                                      | 0/1   | 24/09/2021           |      | 22/09/2021 |      | 24/11/2021 |      |                      |  |
| Vibrio sp and<br>unspecified<br>environmental bacteria<br>from gill | 5/5   | 14/10/2021           |      | 12/10/2021 |      | 24/11/2021 |      |                      |  |
| Unspecified<br>environmental bacteria<br>from kidney                | 1/5   | 14/10/2021           |      | 12/10/2021 |      | 24/11/2021 |      |                      |  |
| Histology - AMGD,<br>CGDH, GPAT,                                    | 5/5   | 14/10/2021           |      | 12/10/2021 |      | 24/11/2021 |      |                      |  |
| Histology - EPIT  | 1/5   | 14/10/2021           |      | 12/10/2021 |      | 24/11/2021 |      |                      |  |
| Histology - LPAT  | 2/5   | 14/10/2021           |      | 12/10/2021 |      | 24/11/2021 |      |                      |  |
|   |       |                      |      |            |      |            |      |                      |  |
|   |       |                      |      |            |      |            |      |                      |  |
|   |       |                      |      |            |      |            |      |                      |  |
|   |       |                      |      |            |      |            |      |                      |  |

| Report Summary     |            |      |                      |
|--------------------|------------|------|----------------------|
| Case Type          | Date       | Insp | 2 <sup>nd</sup> Insp |
| ECI, CNI, SLI, VMD | 23/11/2021 |      |                      |
| DIA                | 24/11/2021 |      |                      |
| Case Completion    | 28/01/2022 |      |                      |
|                    |            |      |                      |
|                    |            |      |                      |
|                    |            |      |                      |
|                    |            |      |                      |
|                    |            |      |                      |
|                    |            |      |                      |
|                    |            |      |                      |
|                    |            |      |                      |
|                    |            |      |                      |





#### SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 FB0447
 DATE OF VISIT
 15/09/2021

 SITE NO
 FS0675
 SITE NAME
 Ardessie B

 CASE NO
 20210331
 INSPECTOR

# **Section 1: Summary**

The site was visited as part of the Scottish Government's routine risk based health surveillance. During the physical inspection, five fish were removed for diagnostic sampling.

Histopathology examination revealed multifactorial proliferative gill pathology, which included the presence of several amoebic cells suggestive of amoebic gill disease, confirmed by QPCR and some epitheliocystis. Mild multifocal hepatic necrosis noted in one fish.

Due to gill health issues observed on site, samples were screened for salmon gill poxvirus (SPGV) & Paranucleospora theridion (syn. Desmozoon lepeophtherii) by QPCR and tested positive for both pathogens.

Vibrio sp. was identified on plates taken from gill material of 5/5 fish. A second bacterium was isolated on plates taken from gill material of 5/5 fish and kidney material of 1/5 fish but was not fully identified and did not match the characteristics of a known fish pathogen. The level and purity of growth would not suggest that either would be implicated as primary pathogen in fish morbidity and are likely to be of environmental origin.

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, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009. During the inspection, it was observed that mortality had increased and was thought to be due to a gill health issue, as it was known that *Neoparamoeba perurans* (AGD) was present on the site.

Clinical signs of disease included morbidity and lethargy present in all 5 fish sampled, with fish demonstrating increased ventilation of the gills. Internally, all fish had pseudo-faeces present in the gut and Fish 1 had a flaccid ventricle.

## **Samples**

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

| Fish<br>number | Pool<br>number | Facility number | Species         | Stage                    | Origin     |  |
|----------------|----------------|-----------------|-----------------|--------------------------|------------|--|
| F1 – F5        | P1             | D17             | Atlantic salmon | 2020 S0<br>Grower 2.4 Kg | Corry Farm |  |

### Results

**Bacteriology:** Kidney and gill material from Fish 1-5 were inoculated onto appropriate media for the isolation of bacteria.

*Vibrio* sp. was identified on plates taken from gill material of 5/5 fish. A second bacterium which was not fully identified but did not match the characteristics of a known fish pathogen was observed on plates taken from gill material of 5/5 fish and kidney material of 1/5 fish. The level and purity of growth would not suggest that either would be implicated as the primary pathogen in fish morbidity and are likely to be of environmental origin.

**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<br>Number | Endogenous<br>control Cp value |       | Reported<br>Result (PCR) |       |          |
|----------------|--------------------------------|-------|--------------------------|-------|----------|
| F1             | 21.77                          | 25.84 | 25.88                    | 25.96 | POSITIVE |
| F2             | 21.77                          | 27.23 | 27.22                    | 27.29 | POSITIVE |
| F3             | 22.61                          | 27.87 | 27.94                    | 27.85 | POSITIVE |
| F4             | 21.52                          | 24.48 | 24.34                    | 24.37 | POSITIVE |
| F5             | 22.03                          | 28.64 | 28.61                    | 28.66 | POSITIVE |

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

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

Neoparamoeba perurans (AGD)

| Fish<br>Number | Endogenous<br>control Cp value |       | Reported<br>Result (PCR) |       |          |
|----------------|--------------------------------|-------|--------------------------|-------|----------|
| F1             | 21.77                          | 27.90 | 28.11                    | 28.21 | POSITIVE |
| F2             | 21.77                          | 26.89 | 27.05                    | 26.99 | POSITIVE |
| F3             | 22.61                          | 28.70 | 28.67                    | 28.70 | POSITIVE |
| F4             | 21.52                          | 28.23 | 28.22                    | 28.36 | POSITIVE |
| F5             | 22.03                          | 27.52 | 27.61                    | 27.66 | POSITIVE |

Paranucleospora theridion

| Fish<br>Number | Endogenous<br>control Cp value |       | Reported<br>Result (PCR) |       |          |
|----------------|--------------------------------|-------|--------------------------|-------|----------|
| F1             | 21.77                          | 31.53 | 31.64                    | 31.63 | POSITIVE |
| F2             | 21.77                          | 34.25 | 34.15                    | 34.62 | POSITIVE |
| F3             | 22.61                          | 37.05 | 36.64                    | 36.44 | POSITIVE |
| F4             | 21.52                          | 35.01 | 34.83                    | 35.15 | POSITIVE |
| F5             | 22.03                          | 29.46 | 29.39                    | 29.47 | POSITIVE |

**Histology:** Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hindgut, liver, spleen and kidney were taken from Fish 1 – 5 and the pseudobranch from Fish 3. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

Gill: Mild to moderate multifocal interlamellar hyperplasia with occasional spaces (lacunae), some filled with cell debris and amoebic cells, lamellar fusion, (F1-F5), displacement of chloride cells and some prominent goblet cells. F5 displayed some haemorrhage on the hyperplasic plaque. Few amoebic cells resembling *Neoparamoeba perurans* (F1-F5) and few numbers of basophilic epithelial inclusions (likely epitheliocystis) (F2) were noted. F2 also displayed a focal area of inflammatory cell infiltration at the centre of one gill filament and the vessels exhibited several free polymorphonuclear neutrophil cells. Some free blood among gill filament and lamellar congestion noted (likely associated with killing method) and several aneurysmal dilation, mainly noted in F5. Some fish displayed some autolysis artefacts.

Pseudobranch: Within normal range (only F3).

Skin & Muscle: Within normal range.

Heart: Within normal range. F5 - no atrium in section.

Gut and pyloric caeca: Some cell sloughing (F5) (potentially associated with post-mortem artefacts).

Pancreas: Minor focal area of inflammatory cell infiltration surrounding pancreatic acinar tissue (potentially associated with vaccine administration) (F1).

Liver: Mild multifocal hepatic necrosis (F1) and vacuolated macrophages (F1-F5). Mild diffuse hepatocyte vacuolation and some sinusoidal hepatic congestion noted in F5.

Kidney and Spleen: Within normal range.

Brain and Eye: Not sampled.

Signed:

Fish Health Inspector

Date: 24/11/2021

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

R09





#### SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 FB0447
 DATE OF VISIT
 15/09/2021

 SITE NO
 FS0675
 SITE NAME
 Ardessie B

 CASE NO
 20210331
 INSPECTOR

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

### Records

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

## Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory with regards to parasites, containment and escapes.

The farm management agreement/statement was inspected and found to be inadequately maintained. Please see the attached annex detailing the points that must be addressed.

Please ensure that these points have been addressed by 08 December 21. 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:

Fish Health Inspector

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

Date: 23/11/2021

## 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<sup>(1)</sup> 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:

• The statement or agreement must identify the date of review (farm management agreements or statements must be reviewed at least every two years).

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





#### SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 FB0447
 DATE OF VISIT
 15/09/2021

 SITE NO
 FS0675
 SITE NAME
 Ardessie B

 CASE NO
 20210331
 INSPECTOR

## Case completion report

A recommendation in relation to the above case was made for implementation by 08/12/2021. Following submission of the required documentation, evidence has now been provided to Marine Scotland to demonstrate that the recommendation has 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:

Fish Health Inspector

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

Date: 28/01/2022

| FHI 059, Version 13  | Is                           | sued by: FHI                             | Date of issue: 12/05/2020 |  |  |  |  |
|--|------------------------------|--|---------------------------|--|--|--|--|
| Case No: 2021-0332   |                              |  | Date of visit: 13/09/2021 |  |  |  |  |
| Time spent on site:  | 1 hour                       | Main Inspec                              | tor:                      |  |  |  |  |
| Site No: FS1316 Business No: FB0569  | Site Name:<br>Business Name: | Lentran Aquaponics<br>Lentran Aquaponics |                           |  |  |  |  |
| Case Types: 1 REG  | 2 3                          | 4 5                                      | 6                         |  |  |  |  |
| Water Temp (°C):   | Thermometer No:              |  | FHI 045 completed         |  |  |  |  |
| Observations:  | Region: HI                   | Water type: F                            | CoGP MA:                  |  |  |  |  |
| Dead/weak/abnormally behaving fish present?  Clinical signs of disease observed?  Gross pathology observed?  Diagnostic samples taken?  If yes, see additional information/clinical score solutional information/clinical score solutions. |                              |  |                           |  |  |  |  |
| UNI/REG only - if unable to carry out intended visit detail reason below:  |                              |  |                           |  |  |  |  |
| The site has not been in operation for some time - no records maintained since site dismantled as no fish stocks held.   |                              |  |                           |  |  |  |  |
|  |                              |  |                           |  |  |  |  |
|  |                              |  |                           |  |  |  |  |

### **Additional Case Information:**

The site in Inverness has been dismantled and is to be deregistered along with the business. The new site at Lentran is still under construction and has no fish or plants being grown. The owner intends to grow micro-greens and may or may not stock with Tilapia. Owner will contact the FHI when/if in operation.

| FHI 059, Version 13     | 3               |                  | Iss              | ued by: FHI     |               |              | Date of issu   | ue: 12/05/2020 |
|-------------------------|-----------------|------------------|------------------|-----------------|---------------|--------------|----------------|----------------|
| Case No:                | 2021-0332       |                  | Site No:         | FS1316          | 6             |              |                |                |
| Date of Visit:          |                 | 13/09/202        | 1                |                 | Inspector(s   | ):           |                |                |
| Registration/Author     | orisation Det   | ails             |                  |                 |               |              |                |                |
| 1. Business/site det    | tails summary   | checked by       | site represent   | tative?         |               |              | Υ              |                |
| 2. Changes made to      | o details?      |                  |                  |                 |               |              | Υ              | ]              |
| Site Details (includ    | de cleaner fis  | sh for all sec   | tions)           |                 |               |              |                |                |
| Total No facilities     |                 | 0                | Facilities st    | ocked           | 0             | No facili    | ties inspected | 0              |
| Species                 | N/A             |                  |                  |                 |               |              |                |                |
| Age group               | N/A             |                  |                  |                 |               |              |                |                |
| No Fish                 | N/A             |                  |                  |                 |               |              |                |                |
| Mean Fish Wt            | N/A             |                  |                  |                 |               |              |                |                |
| Next Fallow Date (S     |                 | N/A              |                  | Next Input Da   |               | N/A          |                |                |
| Recent (last 4 wks)     | disease prob    | lems?            |                  | N/A             | Any escape    | es (since la | st visit)?     | N/A            |
| If yes, detail:         |                 |                  |                  |                 |               |              |                |                |
| Movement Record         | ls              |                  |                  |                 |               |              |                |                |
| 1. Movement record      | ds available fo | r inspection?    | •                |                 |               |              |                | N/A            |
| 2. Date of last inspe   |                 | •                |                  |                 |               |              | 03/09/2019     |                |
| 3. Are records com      | plete and corr  | ectly entered    | l?               |                 |               |              |                | N/A            |
| 4. Are movement re      | ecords availab  | ole for dead fi  | sh and waste     | ?               |               |              |                | N/A            |
| 5. Are records com      | plete and corr  | ectly entered    | l?               |                 |               |              |                | N/A            |
| 6. Are health certific  | cates for intro | ductions (out    | with GB) avail   | lable?          |               |              |                | N/A            |
| Transport Records       | s               |                  |                  |                 |               |              |                |                |
| 1. Are any moveme       |                 | ıt bv (or on be  | ehalf) of the b  | usiness (not us | sing a STB)?  |              |                |                |
| If yes, is there a sys  |                 |                  |                  |                 | -             |              |                |                |
| Mortality Records       |                 |                  |                  |                 |               |              |                |                |
| 1. Mortality records    | available for i | inspection?      |                  |                 |               |              |                | N/A            |
| 2. How are mortaliti    |                 | •                |                  |                 | Other (deta   | ıil)         |                |                |
| If other detail:        |                 |                  | last date of i   | nspection.      |               | ,            |                |                |
| 3. Mortality records    |                 |                  |                  |                 |               |              |                | N/A            |
| 4. Recent mortality     | (last 4 wks):   |                  | N/A              |                 |               |              |                |                |
| 5. Evidence of rece     | nt increased/a  | atypical morta   |                  |                 |               |              |                | N/A            |
| If yes, facility nos/no | o mortality per | r facility/no st | ock per facilit  | y/reason:       |               |              |                |                |
| 6. Any other peaks      | in mortality du | ring period o    | hecked?          |                 |               |              |                | N/A            |
| If yes, detail:         | mortality de    | ig poriod o      |                  |                 |               |              |                | ,,,            |
| 7. Have increased (     | (unexplained)   | mortalities be   | een reported t   | to vet or FHI?  |               |              |                | N/A            |
| If yes, detail action:  |                 |                  |                  |                 |               |              |                |                |
| 8. Have 'mortality e    | vents' been re  | ported to FH     | II? If no, enter | details on mor  | tality events | sheet.       |                | N/A            |

| Treatments and Medicines Records  |             |
|---|-------------|
| 1. Recent treatments (see comment)?   |             |
| 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?   |             |
| 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   | l 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 lis | ted 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 of     | r higher    |
| health status, certification if required)?  |             |
|   |             |
| 6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to           |             |
| 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:                   |             |
| ii iio, detaii.   |             |
| 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: 03/09/2019 - 14/09/2021  |             |

| Casa Na          | 2024 0222  |          |                      | D         | 40/00/0        | 004     |      |                     |  |  |
|------------------|------------|----------|----------------------|-----------|----------------|---------|------|---------------------|--|--|
| Case No:         | 2021-0332  | _        |                      | Date of v | isit: 13/09/20 | 021     |      |                     |  |  |
| Site No:         | FS1316     |          |                      | Inspec    | tor:           |         |      |                     |  |  |
| Results Summary  | Freq.      | T        | Date of Notification |           |                |         |      |                     |  |  |
| ·                |            | Database | e Insp               | Phone     | Insp           | Writing | Insp | 2 <sup>nd</sup> Ins |  |  |
|                  |            |          |                      |           |                |         |      |                     |  |  |
|                  |            |          |                      |           |                |         |      |                     |  |  |
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|                  |            |          |                      |           |                |         |      |                     |  |  |
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|                  |            |          |                      |           |                |         |      |                     |  |  |
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|                  |            |          |                      |           |                |         |      |                     |  |  |
|                  |            |          |                      |           |                |         |      |                     |  |  |
|                  | _          |          |                      |           |                |         |      |                     |  |  |
|                  |            |          |                      |           |                |         |      |                     |  |  |
|                  |            |          |                      |           |                |         |      |                     |  |  |
|                  |            |          |                      |           |                |         |      |                     |  |  |
|                  |            |          |                      |           |                |         |      |                     |  |  |
|                  |            |          |                      |           |                |         |      |                     |  |  |
|                  |            |          |                      |           |                |         |      |                     |  |  |
| Report Summary   |            |          |                      |           |                |         |      |                     |  |  |
| Case Type<br>REG | Date       | Insp     | 2 <sup>nd</sup> Insp |           |                |         |      |                     |  |  |
| REG              | 08/11/2021 | 1        |                      |           |                |         |      |                     |  |  |
|                  |            | -        |                      |           |                |         |      |                     |  |  |
|                  | _          |          |                      |           |                |         |      |                     |  |  |
|                  |            |          |                      |           |                |         |      |                     |  |  |
|                  |            |          |                      |           |                |         |      |                     |  |  |
|                  |            |          |                      |           |                |         |      |                     |  |  |
|                  |            |          |                      |           |                |         |      |                     |  |  |
|                  |            |          |                      |           |                |         |      |                     |  |  |
|                  |            |          |                      |           |                |         |      |                     |  |  |
|                  |            |          |                      |           |                |         |      |                     |  |  |





### SUMMARY FOR INFORMATION OF SITE OPERATOR

Business No FB0569 Date of Visit 13/09/2021

SITE NO FS1316 SITE NAME Lentran Aquaponics

CASE NO 20210332 INSPECTOR

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

On this occasion, the site was found to be fallow with all facilities removed. There are no plans to restock the site at this time therefore the status of the site and the business will be changed to deregistered and the authorisation to operate as an aquaculture production business will be revoked.

Please contact us to renew the authorisation to operate as an aquaculture production business if the new site is to be stocked in the future.

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

Signed:

Fish Health Inspector

The Fish Health Inspectorate Service Charter detailing standards of service is available on the Marine Scotland website at <a href="https://www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter">www.gov.scot/Topics/marine/Fish-Shellfish/FHI/charter</a>

Date: 08/11/2021

| FHI 059, Version 13   |                 | Issued by: FHI               | Date of issue: 12/05/2020       |  |  |  |
|---|-----------------|------------------------------|---------------------------------|--|--|--|
| Case No: 2021-0333  |                 |                              | Date of visit: 14/09/2021       |  |  |  |
| Time spent on site:   | 6 hours         | Main Inspe                   | ctor:                           |  |  |  |
| Site No: FS0056   | Site Name:      | Ardmair                      |                                 |  |  |  |
| Business No: FB0447   | Business Name:  | Wester Ross Fisheries Ltd    |                                 |  |  |  |
| Case Types: 1 ECI   | 2 CNI 3 SLI     | 4 VMD 5 DIA                  | 6                               |  |  |  |
| Water Temp (°C): 13.4   | Thermometer No: | T148                         | FHI 045 completed               |  |  |  |
| Observations:   | Region: HI      | Water type: S                | CoGP MA M-11                    |  |  |  |
| Dead/weak/abnormally behaving   | •               |                              | formation/clinical score sheet. |  |  |  |
| Clinical signs of disease observ  | ed?             |                              | formation/clinical score sheet. |  |  |  |
| Gross pathology observed? Diagnostic samples taken?                       |                 | Y If yes, see additional inf | formation/clinical score sheet. |  |  |  |
| UNI/REG only - if unable to carry out intended visit detail reason below: |                 |                              |                                 |  |  |  |
|   |                 |                              |                                 |  |  |  |
|   |                 |                              |                                 |  |  |  |
|   |                 |                              |                                 |  |  |  |

### **Additional Case Information:**

Inspection and remote paperwork by supervision.

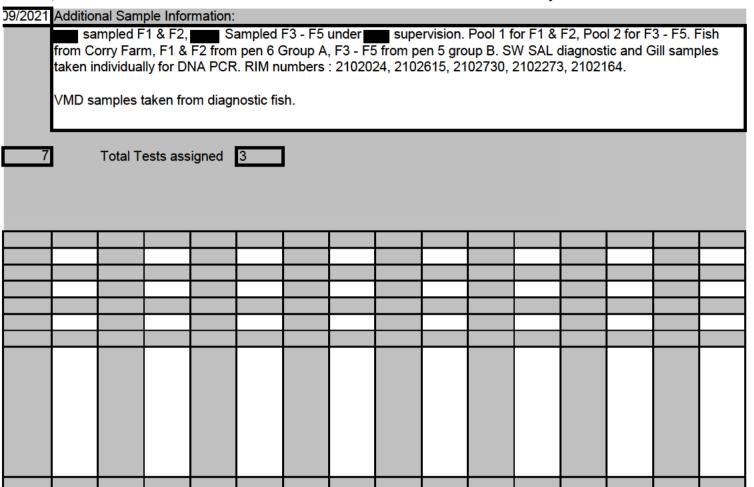
Mortalities removed by dead sock and ensiled at Ardmair shorebase before disposal by biogas or incineration. Ardmair is currently divided into two pen groups, A and B. At the time of inspection the site was experiencing approximately 600 mortalities per day. Pharmaq Analytiq diagnosed complex gill disease in week 35 with AGD present. Upon inspection fish behaviour was lethargic with numbers of moribund fish observed near the surface and around the corners of pens. Recent mortality has occurred at both pen groups, with group B more affected. Mortality per pen on group B on the day of inspection was approximately 70 per pen with population N23 (currently in pen 5) the worst effected. The smaller grade fish were significantly more affected than the large grade. The fish on pen group A were displaying similar clinical signs of disease, although was not as wide spread. H2O2 treatments 23 & 24, 30 & 31 August and 01 September. Samples taken for diagnostics were pooled, two fish from population S6 (currently in pen 6 on pen group A) and 3 fish from population N23 (currently pen 5 on pen group B). Wrasse are stocked on site and are working well, with no signs of elevated numbers of sea lice. On inspection of the site's FMS the date of review was not present, FHI have advised that this is to be updated. Evidence of updated FMS was supplied on 27/01/22 and met the requirement -

| FHI 059, Version 13  |                  |                 | Issu            | ed by: FHI       |                 |              | Date of issu     | e: 12/05/2020 |
|--|------------------|-----------------|-----------------|------------------|-----------------|--------------|------------------|---------------|
| Case No:   | 2021-0333        |                 | Site No:        | FS0056           |                 |              |                  |               |
| Date of Visit:   |                  | 14/09/2021      | l               |                  | Inspector(s):   |              |                  | ı             |
| Registration/Author  |                  |                 |                 |                  |                 |              |                  |               |
| 1. Business/site deta  |                  | checked by si   | ite representa  | ative?           |                 |              | Υ                |               |
| 2. Changes made to   | details?         |                 |                 |                  |                 |              | Y                | ]             |
| Site Details (includ   | le cleaner fis   | h for all secti | ions)           |                  |                 |              |                  |               |
| Total No facilities  |                  | 30              | Facilities sto  | cked             | 25              | No facilitie | es inspected     | 30            |
| Species  | SAL              | Wrasse          |                 |                  |                 |              |                  |               |
|  | 2020 S0          | Wild caught     |                 |                  |                 |              |                  |               |
| Age group  |                  |                 |                 |                  |                 |              |                  |               |
| No Fish  | 216,312          | 3,480           |                 |                  |                 |              |                  |               |
| Mean Fish Wt   | 1.6kg            | 120g            |                 |                  |                 |              |                  |               |
| Next Fallow Date (S  | ite)             | 07/2022         |                 | Next Input Da    | te (Site)       | 08/2022      |                  |               |
| Recent (last 4 wks)  | disease probl    | ems?            |                 | Y                | Any escapes     | (since last  | visit)?          | N             |
| If yes, detail:  | Complex gill     | pathology wit   | h AGD prese     | nt, the site sus | tained some e   | elevated mo  | rtality followin | ng peroxide   |
| Manager Danager  |                  |                 |                 |                  |                 |              |                  |               |
| Movement Record  | _                |                 |                 |                  |                 |              |                  |               |
| 1. Movement record   |                  | r inspection?   |                 |                  |                 |              | 44/00/0040       | 1             |
| 2. Date of last inspe  |                  | anthu antarad?  |                 |                  |                 |              | 11/09/2019       |               |
| <ol> <li>Are records comp</li> <li>Are movement re</li> </ol>  |                  | •               |                 | ,                |                 |              |                  |               |
|  |                  |                 |                 |                  |                 |              |                  |               |
| <ol><li>Are records comp</li><li>Are health certific</li></ol> |                  | •               |                 | abla?            |                 |              |                  | N/A           |
| o. Are nealth certific   | ates for introc  | iuctions (outw  | illi Gb) avalla | able :           |                 |              |                  | IV/A          |
| Transport Records  |                  |                 |                 |                  |                 |              |                  |               |
| 1. Are any movemen   |                  | t by (or on bel | half) of the bu | usiness (not us  | ing a STB)?     |              |                  | N             |
| If yes, is there a sys   |                  | • •             |                 | •                | •               |              |                  |               |
| ,,   |                  |                 |                 |                  |                 |              |                  |               |
| <b>Mortality Records</b>                                       |                  |                 |                 |                  |                 |              |                  |               |
| 1. Mortality records   | available for ii | nspection?      |                 |                  |                 |              |                  | Y             |
| 2. How are mortalitie  | es disposed o    | f?              |                 |                  | Ensiled - on :  | site         |                  |               |
| If other detail:   |                  |                 |                 |                  |                 |              |                  |               |
| 3. Mortality records   | complete and     | correctly ente  | ered?           |                  |                 |              |                  | Y             |
| 4. Recent mortality (  | last 4 wks):     |                 | Wk 33 - 0.03    | 3%, Wk 34 - 0.   | 58%, Wk 35 -    | 2.58%, Wk    | 36 - 1.05%       |               |
| 5. Evidence of recer   | nt increased/a   | typical mortali | ities?          |                  |                 |              |                  | Y             |
| If yes, facility nos/no  | mortality per    | facility/no sto | ck per facility | /reason:         |                 |              |                  |               |
| Pen group B affecte  | d, cages 23,2    | 4,25 had high   | est mortality.  |                  |                 |              |                  |               |
| 6. Any other peaks i   | n mortality du   | ring period ch  | ecked?          |                  |                 |              |                  | N             |
| If yes, detail:  |                  |                 |                 |                  |                 |              |                  |               |
| 7. Have increased (  | unexplained) i   |                 |                 |                  |                 |              |                  | Y             |
| If yes, detail action:   |                  |                 |                 | iver pathology   |                 |              | cro jellies      |               |
| 8 Have 'mortality ev   | ents' heen re    | norted to FHI'  | 2 If no enter   | details on mort  | ality events sh | neet         |                  | Y             |

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|-------------------------------------|----------------|---------------------------|
| Treatments and Medicines Records    |                |                           |
| 1. Recent treatments (see comment)? |                | Y                         |
| LIDOD                               |                |                           |

| 1. Recent treatments (see comment)?  |                      |                    |                 |                          | Y |  |  |  |  |
|--|----------------------|--------------------|-----------------|--------------------------|---|--|--|--|--|
| H2O2,  |                      |                    |                 |                          |   |  |  |  |  |
| If yes, detail: T.M.S.   |                      |                    |                 |                          |   |  |  |  |  |
| If other, detail:  |                      |                    |                 |                          |   |  |  |  |  |
| 2. Medicines records available for inspect   |                      |                    |                 |                          | Y |  |  |  |  |
| 3. Are records complete and correctly entered?   |                      |                    |                 |                          |   |  |  |  |  |
| 4. Are fish in a withdrawal period?  |                      |                    |                 |                          |   |  |  |  |  |
| 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 inspec  | tion?                |                    |                 |                          | Y |  |  |  |  |
| 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  |                      |                    | ion of the pres | ence of a listed disease |   |  |  |  |  |
| is detected been included and how and w  | when that will be no | otified to Scottis | h Ministers?    |                          | Y |  |  |  |  |
| 5. Has the health status of aquaculture ar   | nimals being stocke  | ed on the farm :   | site been cove  | red (equal or higher     | Y |  |  |  |  |
| health status, certification if required)?   |                      |                    |                 |                          |   |  |  |  |  |
|  |                      |                    |                 |                          |   |  |  |  |  |
| 6. Have the husbandry and biosecurity me   | easures implement    | ted between ea     | ch epidemiolo   | gical unit to minimise   | Y |  |  |  |  |
| transmission of disease been covered (m  | •                    |                    | •               | •                        |   |  |  |  |  |
| 7. Is documentation available regarding th   | ne measures in pla   | ce to maintain t   | the physical co | ontainment of            | Y |  |  |  |  |
| aquaculture animals held on site?  |                      |                    |                 | '                        |   |  |  |  |  |
| 8. Have the biosecurity procedures been  | adequately implem    | ented on site?     |                 |                          | Y |  |  |  |  |
| If no, detail:   |                      |                    |                 |                          |   |  |  |  |  |
|  |                      |                    |                 |                          |   |  |  |  |  |
| Results of Surveillance  |                      |                    |                 |                          |   |  |  |  |  |
| 1. Has any animal health surveillance bee  | en carried out by, o | r on behalf of, t  | the business?   |                          | Y |  |  |  |  |
| 2. If yes, are results available for inspection?   |                      |                    |                 |                          |   |  |  |  |  |
| 3. Any significant results?  |                      |                    |                 |                          |   |  |  |  |  |
| If yes, detail (if not detailed under recent disease problems).  Complex gill disease identified, AGD p        |                      |                    |                 |                          |   |  |  |  |  |
| Significant, mixed becoming complex, acute and chronic gill pathology.   |                      |                    |                 |                          |   |  |  |  |  |
| Records checked between: October 2019 - 10.09.21   |                      |                    |                 |                          |   |  |  |  |  |

| Case no:                      | 2021-03  | 333   | Site No:   |                       | FS0056   |                       |                        | Date of vi   |          | 14/0                   | 9/2021                 | 14/0              |
|-------------------------------|--|---|--|-----------------------|--|-----------------------|------------------------|--|----------|------------------------|------------------------|-------------------|
| Priority samples:             | VI   |   | ВА   |                       | РА   |                       | MG                     |  | ı:<br>HI |                        |                        |                   |
| Time sampling<br>starts/ends: |  |   |  | 0:00                  |  | Inspecto              | or:                    |  | _        | VMD No                 | . [                    | 5                 |
| Environmental conditions:     | 1  | indoors   |  |                       | 3  |                       | 4                      | _  | 5        |                        |                        |                   |
| Summary samples               | HIST   | Y   | ВА   | Y                     | MG   | Y                     | VI                     |  | РА       |                        | Total Sa               | mples             |
| ld Fish/Pools - click         |  |   |  |                       |  |                       |                        |  |          |                        |                        |                   |
|                               | F1   | F2  | F3   |                       |  | P1                    |                        |  |          |                        |                        |                   |
|                               | 1  |   | 3  |                       |  | 1-2                   | 3-5                    |  |          |                        |                        |                   |
|                               |  |   |  |                       |  |                       |                        |  |          |                        |                        |                   |
|                               |  |   |  |                       |  |                       |                        |  |          |                        |                        |                   |
|                               |  |   |  |                       |  |                       |                        |  |          |                        |                        |                   |
|                               |  |   |  |                       |  |                       |                        |  |          |                        |                        |                   |
| Water Type                    | SW   | SW  | SW   | SW                    | SW   | SW                    | SW                     |  |          |                        |                        |                   |
|                               |  |   |  |                       |  |                       |                        |  |          |                        |                        |                   |
|                               |  |   |  |                       |  |                       |                        |  |          |                        |                        |                   |
|                               |  |   |  |                       |  |                       |                        |  |          |                        |                        |                   |
|                               | Ε  | E   | E  | E                     | Ε  | E                     | E                      |  |          |                        |                        |                   |
|                               | Far  | Far   | Far  | Far                   | Far  | Far                   | Far                    |  |          |                        |                        |                   |
|                               | 7  | Σ   | l Y  | Y                     | Σ  | Į.                    | ιΣ                     |  |          | - 1                    |                        |                   |
| Stock Origin                  | Sor  | Sor   | Cor  | Sor                   | Cor  | Sor                   | Cor                    |  |          | - 1                    |                        |                   |
|                               |  |   |  |                       |  |                       |                        |  |          |                        |                        |                   |
|                               | Priority samples:  Time sampling starts/ends: Environmental conditions:  Summary samples  d Fish/Pools - click  Pool/Fish No Fish nos Pool Group Species Average weight Sex Water Type | Priority samples:  Time sampling starts/ends: Environmental conditions:  Summary samples  HIST  d Fish/Pools - click  Pool/Fish No F1 Fish nos Pool Group Species Average weight Sex Water Type  Stock Origin | Priority samples:  Time sampling 12:00:00 starts/ends: Environmental conditions: 1 Indoors  Summary samples HIST Y  d Fish/Pools - click  Pool/Fish No F1 F2 Fish nos 1 2 Pool Group P1 P1 Species SAL SAL Average weight 1.6kg 1.6kg Sex N/A N/A Water Type SW SW  Stock Origin | Priority samples:  VI | Priority samples:  VI BA  Time sampling 12:00:00 14:30:00 starts/ends: Environmental conditions: 1 Indoors 2  Summary samples HIST Y BA Y  d Fish/Pools - click  Pool/Fish No F1 F2 F3 F4 Fish nos 1 2 3 4 Pool Group P1 P1 P2 P2 Species SAL SAL SAL SAL SAL Average weight 1.6kg 1.6kg 1.6kg 1.6kg Sex N/A N/A N/A N/A N/A Water Type SW SW SW SW  Stock Origin Starts/ends. | Priority samples:  VI | Priority samples:   VI | Priority samples: VI BA PA MG  Time sampling 12:00:00 14:30:00 Inspector:  Environmental conditions: 1 Indoors 2 3 4  Summary samples HIST Y BA Y MG Y VI  Id Fish/Pools - click  Pool/Fish No F1 F2 F3 F4 F5 P1 P2  Fish nos 1 2 3 4 5 1-2 3-5  Pool Group P1 P1 P2 P2 P2 P2  Species SAL | Sampling | Priority samples:   VI | Priority samples:   VI | Priority samples: |



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| Case no:                            | 2021-0333                          |           | Site No | ):      | FS0056 |        | Method of killing: Percussive |  |   |  |  |
|-------------------------------------|------------------------------------|-----------|---------|---------|--------|--------|-------------------------------|--|---|--|--|
| Date of visit:                      | 14/09/2021                         | ı         | Inspec  | tor(s): |        |        | Sheet Relevant:               |  | Y |  |  |
| S for strong present                | ce: M for medium presence: W for v | veak pres | ence    |         |        |        |                               |  |   |  |  |
| Fish Number                         |                                    | 1         | 2       | 3       | 3 4 5  |        |                               |  |   |  |  |
| Time sampled afte<br>External Signs | r death (if > 45 minutes)          | 60 min    | 60 min  | 60 min  | 70 min | 75 min |                               |  |   |  |  |
| Behaviour                           | Moribund                           | M         | М       | S       | S      | S      |                               |  |   |  |  |
|                                     | Lethargic                          | М         | М       | S       | S      | S      |                               |  |   |  |  |
|                                     | Hanging vertical                   |           |         |         |        |        |                               |  |   |  |  |
|                                     | Spiralling                         |           |         |         |        |        |                               |  |   |  |  |
|                                     | Flashing                           |           |         |         |        |        |                               |  |   |  |  |
|                                     | Loss of equilibrium                |           |         |         |        |        |                               |  |   |  |  |
| Body                                | Dark                               |           |         |         |        |        |                               |  |   |  |  |
|                                     | Distended abdomen                  |           |         |         |        |        |                               |  |   |  |  |
|                                     | Anorexic                           |           |         |         |        |        |                               |  |   |  |  |
|                                     | Scale Oedema                       |           |         |         |        |        |                               |  |   |  |  |
| Opercula                            | Shortened                          |           |         |         |        |        |                               |  |   |  |  |
|                                     | Flared                             |           |         |         |        |        |                               |  |   |  |  |
| Haemorrhaging                       | Throat                             |           |         |         |        |        |                               |  |   |  |  |
|                                     | Ventrum                            |           |         |         |        |        |                               |  |   |  |  |
|                                     | Base of fins                       |           |         |         |        |        |                               |  |   |  |  |
|                                     | Elsewhere                          |           |         |         |        |        |                               |  |   |  |  |
| Eyes                                | Exophthalmic                       |           |         |         |        |        |                               |  |   |  |  |
|                                     | Enophthalmic (sunken)              |           |         |         |        |        |                               |  |   |  |  |
|                                     | Cataract                           |           |         |         |        |        |                               |  |   |  |  |
|                                     | Haemorrhagic                       |           |         |         |        |        |                               |  |   |  |  |
| Gills                               | Pale                               | VA/       |         |         |        |        |                               |  |   |  |  |
|                                     | Zoned                              | W         |         |         |        |        |                               |  |   |  |  |
|                                     | Necrotic                           |           |         |         |        |        |                               |  |   |  |  |
| Lesions                             | Flank                              |           |         |         |        |        |                               |  |   |  |  |
|                                     | Elsewhere                          |           |         |         |        |        |                               |  |   |  |  |
| Vent                                | Inflamed                           |           |         |         |        |        |                               |  |   |  |  |
|                                     | Trailing faeces                    |           |         |         |        |        |                               |  |   |  |  |
| Lice Load                           | Estimate numbers                   |           |         |         |        |        |                               |  |   |  |  |
| Internal Ciana                      |                                    |           |         |         |        |        |                               |  |   |  |  |
| Internal Signs<br>Ascites           | Clear                              |           |         |         |        |        |                               |  |   |  |  |
| ASCILES                             | Bloody                             |           |         |         |        |        |                               |  |   |  |  |
| Oedema                              | In tissues                         |           |         |         |        |        |                               |  |   |  |  |
| Heart                               | Pale/anaemic                       |           |         |         |        |        |                               |  |   |  |  |
| ricart                              | Granulomas                         |           |         |         |        |        |                               |  |   |  |  |
|                                     | Deformed                           |           |         |         |        |        |                               |  |   |  |  |
| Liver                               | Petechial haem                     |           |         |         |        |        |                               |  |   |  |  |
| Livoi                               | Gross haem                         |           |         |         |        |        |                               |  |   |  |  |
|                                     | Tissue breakdown                   |           |         |         |        |        |                               |  |   |  |  |
|                                     | Enlarged                           |           |         |         |        |        |                               |  |   |  |  |
|                                     | Colour number(s)                   | 3         | 4       | 4       | 4      | 4      |                               |  |   |  |  |
|                                     | Granulomas                         |           |         |         |        |        |                               |  |   |  |  |
|                                     | Lesions                            |           |         |         |        |        |                               |  |   |  |  |
| Pyloric caeca                       | Petechial haem                     |           |         |         |        |        |                               |  |   |  |  |
|                                     | Tubules mauve                      | w         |         |         |        |        |                               |  |   |  |  |
|                                     | Lack of fat                        |           |         |         |        |        |                               |  |   |  |  |
| Spleen                              | Enlarged                           |           |         |         |        |        |                               |  |   |  |  |
|                                     | Granulomas                         |           |         |         |        |        |                               |  |   |  |  |
| Gut                                 | No food present                    |           |         |         |        |        |                               |  |   |  |  |
|                                     | Yellow pseudo-faeces               |           |         | S       | S      | S      | s                             |  |   |  |  |
|                                     | External haem                      |           |         |         |        |        |                               |  |   |  |  |
|                                     | Internal haem                      | W         | W       |         |        |        |                               |  |   |  |  |
| Body wall                           | Haemorrhaging                      |           |         |         |        |        |                               |  |   |  |  |
| Swim bladder                        | Haemorrhaging                      |           |         |         |        |        |                               |  |   |  |  |
|                                     | Fluid filled                       |           |         |         |        |        |                               |  |   |  |  |
| Kidney                              | Swollen                            |           |         |         |        |        |                               |  |   |  |  |
|                                     | Grey                               |           |         |         |        |        |                               |  |   |  |  |
|                                     | Granular                           |           |         |         |        |        |                               |  |   |  |  |
|                                     | Liquefied                          |           |         |         |        |        |                               |  |   |  |  |
| General                             | Parasites present                  |           |         |         |        |        |                               |  |   |  |  |
|                                     | Angomia                            |           |         |         |        |        |                               |  |   |  |  |

Case no: 2021-0333

Date of visit: 14/09/2021

| Date of visit:      | 14/09/2021                         |               |  |  |  |  |  |
|---------------------|------------------------------------|---------------|--|--|--|--|--|
| S for strong preser | nce: M for medium presence: W for  | и             |  |  |  |  |  |
| Fish Number         | ice. In for medium presence. W for | <del>''</del> |  |  |  |  |  |
|                     | er death (if > 45 minutes)         |               |  |  |  |  |  |
| External Signs      | er death (ii > 40 inindtes)        |               |  |  |  |  |  |
| Behaviour           | Moribund                           |               |  |  |  |  |  |
| Denavious           | Lethargic                          |               |  |  |  |  |  |
|                     | Hanging vertical                   |               |  |  |  |  |  |
|                     | Spiralling                         |               |  |  |  |  |  |
|                     | Flashing                           |               |  |  |  |  |  |
|                     | Loss of equilibrium                |               |  |  |  |  |  |
| Body                | Dark                               |               |  |  |  |  |  |
|                     | Distended abdomen                  |               |  |  |  |  |  |
|                     | Anorexic                           |               |  |  |  |  |  |
|                     | Scale Oedema                       |               |  |  |  |  |  |
| Opercula            | Shortened                          |               |  |  |  |  |  |
| •                   | Flared                             |               |  |  |  |  |  |
| Haemorrhaging       | Throat                             |               |  |  |  |  |  |
|                     | Ventrum                            |               |  |  |  |  |  |
|                     | Base of fins                       |               |  |  |  |  |  |
|                     | Elsewhere                          |               |  |  |  |  |  |
| Eyes                | Exophthalmic                       |               |  |  |  |  |  |
|                     | Enophthalmic (sunken)              |               |  |  |  |  |  |
|                     | Cataract                           |               |  |  |  |  |  |
|                     | Haemorrhagic                       |               |  |  |  |  |  |
| Gills               | Pale                               |               |  |  |  |  |  |
|                     | Zoned                              |               |  |  |  |  |  |
|                     | Necrotic                           |               |  |  |  |  |  |
| Lesions             | Flank                              |               |  |  |  |  |  |
|                     | Elsewhere                          |               |  |  |  |  |  |
| Vent                | Inflamed                           |               |  |  |  |  |  |
|                     | Trailing faeces                    |               |  |  |  |  |  |
| Lice Load           | Estimate numbers                   |               |  |  |  |  |  |
|                     |                                    |               |  |  |  |  |  |
| Internal Signs      |                                    |               |  |  |  |  |  |
| Ascites             | Clear                              |               |  |  |  |  |  |
|                     | Bloody                             |               |  |  |  |  |  |
| Oedema              | In tissues                         |               |  |  |  |  |  |
| Heart               | Pale/anaemic                       |               |  |  |  |  |  |
|                     | Granulomas                         |               |  |  |  |  |  |
|                     | Deformed                           |               |  |  |  |  |  |
| Liver               | Petechial haem                     |               |  |  |  |  |  |
|                     | Gross haem                         |               |  |  |  |  |  |
|                     | Tissue breakdown                   |               |  |  |  |  |  |
|                     | Enlarged                           |               |  |  |  |  |  |
|                     | Colour number(s)                   |               |  |  |  |  |  |
|                     | Granulomas                         |               |  |  |  |  |  |
| Pulorio casas       | Lesions Petechial haem             |               |  |  |  |  |  |
| Pyloric caeca       | Tubules mauve                      |               |  |  |  |  |  |
|                     | Lack of fat                        |               |  |  |  |  |  |
| Spleen              | Enlarged                           |               |  |  |  |  |  |
| Оріссії             | Granulomas                         |               |  |  |  |  |  |
| Gut                 | No food present                    |               |  |  |  |  |  |
| out                 | Yellow pseudo-faeces               |               |  |  |  |  |  |
|                     | External haem                      |               |  |  |  |  |  |
|                     | Internal haem                      |               |  |  |  |  |  |
| Body wall           | Haemorrhaging                      |               |  |  |  |  |  |
| Swim bladder        | Haemorrhaging                      |               |  |  |  |  |  |
| - IIIII Diuudoi     | Fluid filled                       |               |  |  |  |  |  |
| Kidney              | Swollen                            |               |  |  |  |  |  |
| uiioj               | Grey                               |               |  |  |  |  |  |
|                     | Granular                           |               |  |  |  |  |  |
|                     | Liquefied                          |               |  |  |  |  |  |
| General             | Parasites present                  |               |  |  |  |  |  |
|                     | Anaemia                            |               |  |  |  |  |  |
|                     | / siwonina                         |               |  |  |  |  |  |

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|--|-------------------------------------|---|----------|------------|---------------|----------|--------------|
| Case Number:   | 2021-0333                           |   | Site No: | FS0056     |               | Insp:    |              |
| Date of Visit  | 14/09/2021                          |   | No of m  | ovements/s | supp./dest.   |          | Score        |
| Live fish movements                                  |                                     |   | 0        | 1-5        | 6-10          | >10      |              |
| Movements on (from out                               | Frequency of m                      | novements on from equivalent MS                                       | 0        | 5          | 10            | 14       | 0            |
| with GB) of susceptible species                      |                                     | novements on from equivalent zone or                                  | 0        | 9          | 18            | 26       | 0            |
|  | Number of supp                      | ocluding third country  | 0        |            | 10            | 14       | 0            |
| Movements off  | Frequency of m                      |   | 1 0      |            | 6             | 10       | 3            |
| Movements on   | Number of dest                      |   | 0        |            | 6             | 10       | 3            |
| Exposure via water                                   |                                     | Site contacts   | . 0      | 1-5        | 6-10          |          |              |
| Water contacts with other farms (holding species     | disinfection or b                   | •   | 0        |            |               |          |              |
| susceptible to same diseases)                        | farms upstream                      | or in a coastal zone with category I<br>or within 1 tidal excursion   | 1        | 2          | 4             |          | 1            |
|  | farms upstream                      | or in a coastal zone with category III<br>or within 1 tidal excursion | 1        | 3          | 6             |          |              |
|  |                                     | or in a coastal zone with category V<br>n or within 1 tidal excursion | 1        | 4          | 8             |          |              |
| Management practices                                 |                                     |   | None     | Secure     | Unsecure      |          |              |
| Water contacts with processors                       | Any processing                      | plant discharging into adjacent waters                                | 0        | 1          | 2             |          | 0            |
| On farm processing within the rules of the directive | No on farm pro                      | •   | 0        |            |               |          |              |
|  | Processing own                      | n fish (re-cycling risk)  | 1        |            |               |          | 1            |
|  | Processing fish                     | from MS of equivalent status  | 2        |            |               |          |              |
|  | Processing fish<br>equivalent statu | from zone or compartment of us  | 4        |            |               |          |              |
|  |                                     | from Category III farm  | 8        |            |               |          |              |
|  | Processing fish                     | from Category ∨ farm  | 10       |            |               |          |              |
| Disposal of fish and fish by-                        | Site's own wast                     | te only processed.  | 0        | 1          |               |          | 0            |
| products   | Common proce                        | sses with other farms   | 3        | 1          |               |          |              |
|  | Collection point                    | for waste from other farms  | 5        |            |               |          |              |
| Use of unpasteurised feeds                           | No feeding of u                     | npasteurised feed   | 0        | i          |               |          | 0            |
|  | Feeding unpast                      | teurised feed   | 5        |            |               |          |              |
| Biosecurity  |                                     | Number of sites   | 1        | 2 or 3     | ≥ 4           |          |              |
| Contacts with other sites                            | Sites operating                     | from single shorebase   | 0        | 1          | 2             |          | 0            |
|  | Sites sharing st                    | aff and equipment   | 0        | 1          | 2             |          | 0            |
| Disinfection of equipment between sites, use of      | Yes                                 |   | 0        |            |               |          | 0            |
| footbaths etc  | No                                  |   | 1        |            |               |          |              |
| CoGP/Regulator                                       |                                     |   |          |            |               |          |              |
| Practices in accordance with regulator or industry   | Yes                                 |   | 0        |            |               |          | 0            |
| code of practice                                     | No                                  |   | 3        |            |               |          |              |
| Platform access to cages                             | Yes                                 |   | 0        |            |               |          | 0            |
|  | No                                  |   | 2        |            |               |          |              |
|  |                                     |   |          |            | Total<br>Rank |          | 8<br>LOW     |

| FHI 059, Version 13   | Issued by: FHI                           | Date of issu                    | ue: 12/05/2020 |
|---|--|---------------------------------|----------------|
| Case No: 2021-0333  | Site No:                                 | FS0056                          |                |
| Sea Lice Inspection (Seawater Sites Only)  1. Has the site experienced sea lice problems in the previo  2. Is the CoGP Farm Management Area (or equivalent) fal               |  | year class basis?               | N<br>Y         |
| 3. Does the site have access to a range of licenced in-feed<br>azamethiphos and emamectin benzoate) as well as acces<br>can these be deployed in a reasonable period of time? |  |                                 | Y              |
| 4. Is there a signed documented farm management agreer<br>Management Area (or equivalent)?  | ment or statement relevant to the        | site and CoGP Farm              | Υ              |
| <ol> <li>Are sea lice count records available for inspection? (Leg</li> <li>Do records adequately reflect the required standard spe</li> </ol>                                |  | Legal SSI, CoGP Annex 6)        | Y<br>Y         |
| 7. Are sea lice ( <i>L. salmonis</i> ) record levels below the suggerecords are inspected? (CoGP Annex 6)   | ested criteria for treatment in the C    | CoGP during the period that     | Υ              |
| 8. Have average adult female sea lice ( <i>L. salmonis</i> ) number 2 or above (from w/b 10/6/19) during the period that record   |  | above (prior to w/b 10/6/19) or | N              |
| If yes, have these been reported to the Fish Health Inspect   | torate? If no, FHI see comment.          |                                 | N/A            |
| 9. Is C. elongatus infestation at a level which is considered   | d to cause significant welfare prob      | elems? (CoGP 4.3.81, 5.3.50)    | N              |
| <ol> <li>Have therapeutic treatments been administered or othe<br/>suggested criteria for treatment or where C. elongatus is c</li> </ol>                                     |  |                                 | N/A            |
| 11. Has any other action been taken (where applicable)?   |  |                                 | Υ              |
| 12. Have therapeutic treatments or the actions taken had a  | a significant impact upon the lice l     | evels recorded?                 | Υ              |
| 13. Are treatments, where conducted, carried out in cooper  | ration between participating farms       | 5?                              | Υ              |
| 14. Is there a harvesting strategy for the site, where fewer presentings are lice?  | populations or part populations ar       | e held without treatment for    | Y              |
| 15. Is there a site specific written lice management procedused scenarios during the escalation of a sea lice infestation?  | ure with waypoints describing set        | actions to deal with recognised | Υ              |
| 16. Do the sea lice levels observed on stocks reflect sea lice  | ce count data? If no please detail       | reasons.                        | Υ              |
| Containment Inspection  |  |                                 |                |
| 1. Has the site experienced equipment damage due to pre-  | dators in the current or previous p      | roduction cycles?               | N              |
| 2. Are measures in place to mitigate against the predation  | experienced on site? (Detail below       | w)                              | Υ              |
| secondary<br>predator box nets  |  |                                 |                |
| If other, detail below:   |  |                                 |                |
| Predator exclusion nets   |  |                                 |                |
| 3. Have escape incidents or events been experienced on  | or in the vicinity of the site since the | he last FHI inspection?         | N              |
| If Yes proceed with questions 4 – 9. If No skip to question   | 10                                       | •                               |                |
| 4. Have these been reported to Scottish Ministers?  |  |                                 |                |
| 5. Have these been reported to local DSFB forthwith (wher   | e they exist)? (CoGP - 4.4.37, 5.        | 4.17)                           |                |
| 6. Have these been reported to the SSPO and local fisheric  |  | -                               |                |
| 7. Were methods (if any) used to recover escapees? If yes   | give detail                              |                                 |                |
| 8. If gill nets were deployed was this action agreed with loc   | al wild fish interests and was perr      | mission given by Scottish       |                |
| Ministers? (Legal, CoGP – 4.4.38, 5.4.18)   |  |                                 |                |
| 9. What action was taken to prevent and minimise the risk   |  | in code but could               |                |
| be considered under satisfactory measures of the Ac<br>10. Is the site inspected as satisfactory with regards to con  |  | son(s)                          | Y              |
|   | ines predee detail four                  | (-)                             |                |

| FHI 059, Version 13  | Issued by: FHI   | Date of issue: 12/05/2020 |
|--|--|---------------------------|
| Case No: 2021-0333   | Site No: FS0056  |                           |
| Date of Visit: 14/09/2021  | Inspector:   |                           |
| Point of Compliance  1. Is the farm under inspection located v   | vithin a farm management area?   | V                         |
| If N, no further questions require comple  | _  | <u> </u>                  |
| <ol> <li>Has a current farm management agree</li> <li>Is the current FMAg/S available for in</li> <li>Does the FMAg/S identify the relevant</li> <li>Does the FMAg/S identify the fish farm</li> </ol> | nt farm management area? m site(s) to which it applies? commencement of the agreement or statem  | Y Y Y Y                   |
| Arrangements for Fish Health Manag<br>8. Does the FMAg/S identify the minimularm?  | ement<br>im health standards for the stocks to be intro  | oduced to the area or Y   |
| 10. Does the FMAg/S identify the species   | ation requirements for stocks held in the area<br>es of fish which may be stocked into the area<br>num stocking density of any pen on any farm | a or farm?                |
|  | gements for the storage and disposal of any orm?   | dead fish from any        |
| Arrangements for The Management of 13. Does the FMAg/S identify arrangem   | of Sea Lice<br>ents for the sharing of data on sea lice numb   | pers and treatments?      |
| 14. Does the FMAg/S identify the availa of statement?  | bility and the use of medicines on farms cove  | ered by the agreement Y   |
| 15. Does the FMAg/S identify any requir lice on farms in the area or individual far  | rements for the sensitivity testing of available rms?  |                           |
| 16. Does the FMAg/S identify the circum used on farms in the area or individual f  | nstances under which biological controls and<br>arms?  | I cleaner fish are to be  |
|  | gements for synchronous treatments on farm   | ns within the area?       |
| Live Fish Movements 18. Does the FMAg/S identify the circum area or farm?  | nstances when live fish may be introduced o  | r removed from the        |
| 19. Does the FMAg/S identify the arrang or individual farms?   | gements for the movement of live fish on and   | d off sites in the area   |

| FHI 059, Version 13   | Issued b               | y: FHI                                 | Date of            | issue: 12/05/2020 |
|---|------------------------|--|--------------------|-------------------|
| Harvesting 20. Does the FMAg/S identify acceptable ha   | arvest practices on fa | rms in the area or indivi              | dual farms?        | Y                 |
| Fallowing 21. Does the FMAg/S identify the dates by vidate when a farm or area may be restocked                     |                        | ividual farm will be fallow            | and the earliest   | Y                 |
| 22. Does the FMAg/S identify whether one of agreement or statement?   |                        | may be stocked onto sit                | es covered by the  | Y                 |
| 23. Does the FMAg/S identify whether brood covered by the agreement or statement?                                   | dstock or potential br | oodstock are to be kept                | on any site        | Y                 |
| Point of Compliance for Farm Management 24. Does the farm management agreement parties to the agreement?            | _                      | -                                      | e, or cease to be, | N/A               |
| Management and operation 25. Is the fish farm being managed and ope 26. What is the version no/date of issue of the |                        | with the agreement or st<br>21/07/2021 | atement?           | Y                 |
| Site staff advised to update the FMS with a   | date for review.       |  |                    |                   |
|   |                        |  |                    |                   |
|   |                        |  |                    |                   |
|   |                        |  |                    |                   |
|   |                        |  |                    |                   |
|   |                        |  |                    |                   |
|   |                        |  |                    |                   |
|   |                        |  |                    |                   |
|   |                        |  |                    |                   |
|   |                        |  |                    |                   |

Site No: FS0056

Case No: 2021-0333

Nature of non-compliance:

Action taken (FHI):

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

 Case No:
 2021-0333
 Date of visit: 14/09/2021

 Site No:
 FS0056
 Inspector:

| Results Summary                             | Freq. |                     |      | Da         | te of Notificat | tion          |      |                      |
|---|-------|---------------------|------|------------|-----------------|---------------|------|----------------------|
|   |       | Database            | Insp | Phone      | Insp            | Writing       | Insp | 2 <sup>nd</sup> Insp |
| AGD PCR                                     | 4/5   | 24/09/2021          |      | 22/09/2021 |                 | 24/11/2021    |      |                      |
| P.theridion, Salmon                         | 5/5   | 24/09/2021          |      | 22/09/2021 |                 |               |      |                      |
| Pox PCR                                     |       |                     |      |            |                 | 24/11/2021    |      |                      |
| IHN, ISA, IPN, VHS,<br>SAV PCR              | 0/2   | 24/09/2021          |      | 22/09/2021 |                 | 24/11/2021    |      |                      |
| Unidenfied Bacteria<br>likely environmental | 3/5   | 14/10/2021          |      | 12/10/2021 |                 | 24/11/2021    |      |                      |
| Histo - CGDH, EPIT,<br>GPAT                 | 5/5   | 14/10/2021          |      | 12/10/2021 |                 | 24/11/2021    |      |                      |
| Histo - AMGD, PMCH                          | 3/5   | 14/10/2021          |      | 12/10/2021 |                 | 24/11/2021    |      |                      |
| QPCR - Candidatus<br>Piscichlamydia         | 0/5   | 14/10/2021          |      | 12/10/2021 |                 |               |      |                      |
| salmonis                                    |       |                     |      |            |                 | 24/11/2021    |      |                      |
| QPCR - Candidatus<br>Syngnamydia salmonis   | 4/5   | 14/10/2021          |      | 12/10/2021 |                 |               |      |                      |
|   |       |                     |      |            |                 | 24/11/2021    |      |                      |
| QPCR - Candidatus<br>Branchiomonas          | 5/5   | 14/10/2021          |      | 12/10/2021 |                 | 0.4/4.4/0.004 |      |                      |
| cysticola                                   | 1/5   | 4 4 / 4 0 / 0 0 0 4 |      | 40/40/0004 |                 | 24/11/2021    |      |                      |
| Histo - HPAT                                | 1/5   | 14/10/2021          |      | 12/10/2021 |                 | 24/11/2021    |      |                      |
|   |       |                     |      |            |                 |               |      |                      |
|   |       |                     |      |            |                 |               |      |                      |
|   |       |                     |      |            |                 |               |      |                      |
|   |       |                     |      |            |                 |               |      |                      |
|   |       |                     |      |            |                 |               |      |                      |
|   |       |                     |      |            |                 |               |      |                      |
|   |       |                     |      |            |                 |               |      |                      |
|   |       |                     |      |            |                 |               |      |                      |

| Report Summary     |            |      |                      |
|--------------------|------------|------|----------------------|
| Case Type          | Date       | Insp | 2 <sup>nd</sup> Insp |
| ECI, CNI, SLI, VMD | 08/11/2021 |      |                      |
| DIA                | 24/11/2021 |      |                      |
| Case completion    | 28/01/2022 |      |                      |
|                    |            |      |                      |
|                    |            |      |                      |
|                    |            |      |                      |
|                    |            |      |                      |
|                    |            |      |                      |
|                    |            |      |                      |
|                    |            |      |                      |
|                    |            |      |                      |
|                    |            |      |                      |





#### SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO FB0447 DATE OF VISIT 14/09/2021 SITE NO FS0056 SITE NAME Ardmair INSPECTOR

### Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

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

### Records

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

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

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

Mortality records were inspected and found to be adequately maintained.

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

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

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

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

Medicine records were inspected and found to be adequately maintained.

Samples were taken to be analysed for veterinary residues.

### Inspection under the Aquaculture and Fisheries (Scotland) Act 2007

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

On this occasion the site was found to be satisfactory with regards to parasites, containment and escapes.

The farm management agreement/statement was inspected and found to be inadequately maintained. Please see the attached annex detailing the points that must be addressed.

Please ensure that these points have been addressed by 08 December 2021. 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:

Fish Health Inspector

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

Date: 08/11/2021

## 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<sup>(1)</sup> 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:

• The statement or agreement must identify the date of review (farm management agreements or statements must be reviewed at least every two years).

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





#### SUMMARY FOR INFORMATION OF SITE OPERATOR

 BUSINESS NO
 FB0447
 DATE OF VISIT
 14/09/2021

 SITE NO
 FS0056
 SITE NAME
 Ardmair

 CASE NO
 20210333
 INSPECTOR

## **Section 1: Summary**

The site was visited as part of the Scottish Government's routine risk based health surveillance. During the physical inspection, five fish were removed for diagnostic sampling.

Histopathology examination revealed mild multifactorial proliferative gill pathology, which included the presence of several amoebic cells suggestive of amoebic gill disease, confirmed by QPCR and epitheliocystis. Some fish also displayed evidence of some gill vascular disturbance. Mild multifocal hepatic necrosis, minor peritonitis and minor cardiac inflammation.

Due to the histopathological examination being suggestive of epitheliocystis, samples were screened for *Candidatus* Branchiomonas cysticola, *Candidatus* Syngnamydia salmonis and *Candidatus* Piscichlamydia salmonis by QPCR and tested positive for *Candidatus* Branchiomonas cysticola and *Candidatus* Syngnamydia salmonis.

Due to gill health issues observed on site, samples were screened for salmon gill poxvirus (SPGV) and *Paranucleospora theridion* (syn. *Desmozoon lepeophtherii*) by QPCR and tested positive for both pathogens.

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, in accordance with the Aquatic Animal Health (Scotland) Regulations 2009. During the inspection, it was observed that a recent increase in mortality due to complex gill disease had been reported to the competent authority following veterinary involvement.

Clinical signs of disease included morbidity and lethargy present in all 5 fish sampled. Fish 1 had zonation in the gills. Internally, the tubules of the pyloric caeca and the hindgut of Fish 1 were inflamed. Fish 2 had an inflamed hindgut. Fish 3 – 5 had pseudo-faeces present in the gut.

## **Samples**

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

| Fish<br>number | Pool<br>number | Facility number | Species         | Stage                    | Origin     |
|----------------|----------------|-----------------|-----------------|--------------------------|------------|
| F1 & F2        | P1             | 6               | Atlantic salmon | 2020 S0<br>Grower 1.6 Kg | Corry Farm |
| F3 – F5        | P2             | 5               | Atlantic salmon | 2020 S0<br>Grower 1.6 Kg | Corry Farm |

### Results

**Bacteriology:** Kidney and gill material from Fish 1-5 were inoculated onto appropriate media for the isolation of bacteria.

The predominant bacterium observed on plates taken from kidney material of fish 1-3 was not fully identified, however, it did not match the characteristics of a known fish pathogen and is likely to be of environmental origin.

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

Candidatus Branchiomonas cysticola

| Fish<br>Number | Endogenous<br>control Cp<br>value |       | Cp Values | Reported Result<br>(PCR) |          |
|----------------|-----------------------------------|-------|-----------|--------------------------|----------|
| F1             | 21.19                             | 22.28 | 22.26     | 22.24                    | POSITIVE |
| F2             | 20.57                             | 24.13 | 23.97     | 24.14                    | POSITIVE |
| F3             | 22.19                             | 21.06 | 21.08     | 21.06                    | POSITIVE |
| F4             | 21.38                             | 19.69 | 19.91     | 19.89                    | POSITIVE |
| F5             | 20.59                             | 20.55 | 20.45     | 20.47                    | POSITIVE |

Candidatus Syngnamydia salmonis

| Fish<br>Number | Endogenous<br>control Cp<br>value |       | Cp Values | Reported Result<br>(PCR) |          |
|----------------|-----------------------------------|-------|-----------|--------------------------|----------|
| F1             | -                                 | -     | -         | -                        | NEGATIVE |
| F2             | 20.57                             | 34.99 | 35.07     | 35.19                    | POSITIVE |
| F3             | 22.19                             | 29.68 | 29.69     | 29.72                    | POSITIVE |
| F4             | 21.38                             | 26.59 | 26.51     | 26.48                    | POSITIVE |
| F5             | 20.59                             | 28.18 | 27.98     | 27.94                    | POSITIVE |

The samples tested negative for Candidatus Piscichlamydia salmonis.

**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<br>Number | Endogenous<br>control Cp<br>value |       | Cp Values | Reported Result<br>(PCR) |          |
|----------------|-----------------------------------|-------|-----------|--------------------------|----------|
| F1             | 20.98                             | 36.49 | 36.61     | 36.70                    | POSITIVE |
| F2             | 20.88                             | 28.93 | 28.71     | 28.72                    | POSITIVE |
| F3             | 22.37                             | 30.63 | 30.53     | 30.55                    | POSITIVE |
| F4             | 21.82                             | 25.31 | 25.32     | 25.37                    | POSITIVE |
| F5             | 20.94                             | 31.83 | 31.71     | 31.84                    | POSITIVE |

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

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

Neoparamoeba perurans (AGD)

| Fish<br>Number | Endogenous control Cp value |       | Cp Values | Reported Result<br>(PCR) |          |
|----------------|-----------------------------|-------|-----------|--------------------------|----------|
| F1             | -                           | -     | -         | -                        | NEGATIVE |
| F2             | 20.88                       | 33.56 | 33.12     | 33.62                    | POSITIVE |
| F3             | 22.37                       | 29.94 | 30.05     | 29.84                    | POSITIVE |
| F4             | 21.82                       | 26.98 | 27.22     | 27.08                    | POSITIVE |
| F5             | 20.94                       | 28.59 | 28.57     | 28.63                    | POSITIVE |

Paranucleospora theridion

| Fish<br>Number | Endogenous<br>control Cp<br>value |       | Cp Values | Reported Result<br>(PCR) |          |
|----------------|-----------------------------------|-------|-----------|--------------------------|----------|
| F1             | 20.98                             | 37.10 | 37.18     | 37.64                    | POSITIVE |
| F2             | 20.88                             | 31.17 | 31.00     | 31.03                    | POSITIVE |
| F3             | 22.37                             | 27.46 | 27.56     | 27.64                    | POSITIVE |
| F4             | 21.82                             | 29.65 | 29.65     | 29.70                    | POSITIVE |
| F5             | 20.94                             | 29.08 | 29.06     | 29.15                    | POSITIVE |

**Histology:** Tissue samples of gill, skin and skeletal muscle, heart, pyloric caeca, pancreas, hind gut, liver, spleen and kidney were taken from Fish 1-5 and brain from Fish 2. The tissue samples were fixed in 10% neutral buffered formalin.

Histopathological examination revealed the following:

<u>Gill:</u> Mild multifocal interlamellar hyperplasia and lamellar fusion (F1-F5). Occasional spaces (lacunae), some filled with cell debris and amoebic cells, lamellar fusion, (F2-F5), displacement of chloride cells and some prominent goblet cells. Some lamellar thickness and vascular disturbance (F3-F5), F2 also displayed a pustule-like structure within the hyperplastic plaque. A few amoebic

cells resembling *Neoparamoeba perurans* (F3-F5) and high numbers of basophilic epithelial inclusions (likely epitheliocystis) (F1-F5). Some free blood among the gill filament and lamellar congestion noted (likely associated with percussive stunning method) and several aneurysmal dilations were observed. Fish 3 to 5 displayed autolysis artefacts which hindered the reading.

Skin & Muscle: Small focal area with inflammation and fibrosis of endomysium of skeletal red muscle fibres (F2, F5).

<u>Heart:</u> Mild multifocal inflammatory cell infiltration noted in the two chambers (F2). Some pericarditis (F2). No atrium in Section: F3, F4 & F5.

<u>Gut and pyloric caeca:</u> Small focal area of haemorrhage noted in adipose tissue (F4). Minor focal area of inflammatory cell infiltration of abdominal adipose tissue (potentially associated with vaccine administration). Some cell sloughing (F5) (potentially associated with post-mortem artefacts).

Pancreas: Within normal range.

<u>Liver:</u> Minor to mild multifocal hepatic necrosis (F3-F4), F4 also displayed some haemorrhage. Small focal area of inflammatory cell infiltration. Mild diffuse hepatocyte vacuolation (F1) and some sinusoidal hepatic congestion noted in F3.

Kidney: A small distinct area with granulomatous inflammation (F4).

Spleen: Small focal areas of absence of haematopoietic tissue (F1 & F2).

Brain: Within normal range (only F2).

Eye: Not sampled.

Signed:

Fish Health Inspector

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

Date: 24/11/2021





#### SUMMARY FOR INFORMATION OF SITE OPERATOR

 Business No
 FB0447
 Date of Visit
 14/09/2021

 Site No
 FS0056
 Site Name
 Ardmair

 Case No
 20210333
 Inspector

## Case completion report

A recommendation in relation to the above case was made for implementation by 08/12/2021. Following submission of the required documentation, evidence has now been provided to Marine Scotland to demonstrate that the recommendation has 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: 28/01/2022
Fish Health Inspector

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| FHI 059, Version 13  |                              | Issued by: FHI                  | Date of issue: 12/05/2020  |
|--|------------------------------|---------------------------------|--|
| Case No: 2021-0343   |                              |                                 | Date of visit: 21/09/2021  |
| Time spent on site:  | 1 hour                       | Main Inspe                      | ector:   |
| Site No: SS0913 Business No: SB0533  | Site Name:<br>Business Name: | Ard Mhor<br>Traigh Mhor Oysters |  |
| Case Types: 1 ECI  | 2 3                          | 4 5                             | 6  |
| Water Temp (°C): N/A   | Thermometer No:              |                                 | FHI 045 completed  |
| Observations:  | Region: WI                   | Water type: S                   | CoGP MA  |
| Dead/weak/abnormally behavin<br>Clinical signs of disease observ<br>Gross pathology observed?<br>Diagnostic samples taken? | -                            | N If yes, see additional in     | nformation/clinical score sheet.<br>nformation/clinical score sheet.<br>nformation/clinical score sheet. |
| UNI/REG only - if unable to car  | ry out intended visit deta   | ail reason below:               |  |
|  |                              |                                 |  |
|  |                              |                                 |  |

FHI 059, Version 13 Issued by: FHI Date of issue: 12/05/2020

### **Additional Case Information:**

OED input from Morecombe Bay via Garbh Lingeigh. Input from Morecombe to Garbh in July 2020 and moved to Ard in May 2021.

Inspection ; paperwork No depuration done all site are class A all year round

Input planned; 400,000 at 2g from Morecombe Bay in Sept 2021 CGI

Stock graded every 3 months. Any increase and unusual mortalities will be recorded then. Grading has not taken place in the last 18 months due to covid restrictions.

Predator mortality has increased as access was not possible during COVID lockdown period to clear stocks of crabs. Stock has been grown on trays on long lines at other sites and was unable to be graded for 18 month period due to COVID and weather. Crabs have therefore grown in the trays and predated on the oysters. The trays are being brought ashore from the offshore sites and transferred to trestle bags and on to Ard Mhor. These stocks are graded about three weeks after being put onto Ard Mhor. This allows the oysters to "harden" and results in less damage at grading. Estimated 15% losses over period occuring at the offshore sites.

| FHI 059, Version 13      |                |                | Issu            | ed by: FHI      |                 |               | Date of issu  | e: 12/05/2020 |
|--------------------------|----------------|----------------|-----------------|-----------------|-----------------|---------------|---------------|---------------|
| Case No:                 | 2021-0343      | ]              | Site No:        | SS0913          |                 |               |               |               |
| Date of Visit:           |                | 21/09/2021     | ]               |                 | Inspector(s):   |               |               | ı             |
| Registration/Author      | isation Deta   | ails           |                 |                 |                 |               |               |               |
| 1. Business/site detail  | ils summary    | checked by s   | ite representa  | ative?          |                 |               | Y             |               |
| 2. Changes made to       | details?       |                |                 |                 |                 |               | Υ             | 1             |
| Site Details (include    | e cleaner fis  | h for all sect | ions)           |                 |                 |               |               |               |
| Total No facilities      |                | 4//            | Facilities sto  | cked            | 400             | No facilitie  | s inspected   | 4//           |
| Species                  | CGI            | OED            |                 |                 |                 |               | T             |               |
| Age group                | 2015-2017      | 2020           |                 |                 |                 |               |               |               |
|                          | 429,000        | 80,000         |                 |                 |                 |               |               |               |
|                          | 10-53g         | 7g             |                 |                 |                 |               |               |               |
| Next Fallow Date (Sit    |                | not known      |                 | Next Input Da   | ate (Site)      | Sept 2021     | - Morecombe   | e bay         |
| Recent (last 4 wks) d    | isease probl   |                |                 | •               | Any escapes     |               |               | N             |
| If yes, detail:          |                |                |                 |                 |                 |               |               |               |
| Movement Records         |                |                |                 |                 |                 |               |               |               |
| Movement records         |                | r inspection?  |                 |                 |                 |               |               | Y             |
| 2. Date of last inspec   |                | ilispection:   |                 |                 |                 |               | 29/10/2019    |               |
| 3. Are records complete  |                | actly entered? | ,               |                 |                 |               | 29/10/2010    | Y             |
| 4. Are movement rec      |                | •              |                 | ,               |                 |               |               | N/A           |
| 5. Are records complete. |                |                |                 |                 |                 |               |               | N/A           |
| 6. Are health certifica  |                | •              |                 | able?           |                 |               |               | N/A           |
| O. Are reality certifica | les for introd | luctions (outw | Alli OD) availe | IDIC:           |                 |               |               | 1 47          |
| Transport Records        |                |                |                 |                 |                 |               |               |               |
| 1. Are any movement      |                |                |                 | •               | _               |               |               |               |
| If yes, is there a syste | em in place f  | or maintenan   | ce of transpor  | rtation records | ?               |               |               |               |
| Mortality Records        |                |                |                 |                 |                 |               |               |               |
| 1. Mortality records a   | vailable for i | nspection?     |                 |                 |                 |               |               | N/A           |
| 2. How are mortalities   |                |                |                 |                 | Other (detail   | )             |               |               |
| 10 41 1 4 11             |                |                | eway away fro   | om site         |                 |               |               |               |
| 3. Mortality records c   |                |                |                 |                 |                 |               |               | N/A           |
| 4. Recent mortality (la  | •              |                | see additiona   | al info.        |                 |               |               |               |
| 5. Evidence of recent    | •              | typical mortal |                 |                 |                 |               |               | N             |
| If yes, facility nos/no  |                | • •            |                 | /reason:        |                 |               |               |               |
|                          |                |                |                 |                 |                 |               |               |               |
| 6. Any other peaks in    | mortality du   | ring period ch | necked?         |                 |                 |               |               | Y             |
| If yes, detail:          | accross sites  | s - crab preda | ition, 15% loss | ses occurs at l | ong line sites  | but shells ar | e graded at A | Ard Mhor      |
| 7. Have increased (un    | nexplained)    | mortalities be | en reported to  | o vet or FHI?   |                 |               |               | N/A           |
| If yes, detail action:   |                |                |                 |                 |                 |               |               |               |
| 8. Have 'mortality eve   | ents' been re  | ported to FHI  | ? If no, enter  | details on mor  | tality events s | neet.         |               | N/A           |

| Treatments and Medicines Records   |           |
|--|-----------|
| 1. Recent treatments (see comment)?  |           |
| If yes, detail:  |           |
| If other, detail:  |           |
| 2. Medicines records available for inspection?   |           |
| 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?   |           |
| The modern of the special spec |           |
| Biosecurity Records  |           |
| 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 a   | 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 of  | lisease   |
| is detected been included and how and when that will be notified to Scottish Ministers?  | Y         |
| 5. Has the health status of aquaculture animals being stocked on the farm site been covered (equal or hig  | her Y     |
| health status, certification if required)?   |           |
|  |           |
| 6. Have the husbandry and biosecurity measures implemented between each epidemiological unit to minim  | mise 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  | Υ         |
| aquaculture animals held on site?  |           |
| 8. Have the biosecurity procedures been adequately implemented on site?  | Y         |
| If no, detail:   |           |
| Results of Surveillance  |           |
| Has any animal health surveillance been carried out by, or on behalf of, the business?   | N         |
| 2. If yes, are results available for inspection?   | <u>'`</u> |
| 3. Any significant results?  |           |
| If yes, detail (if not detailed under recent disease problems).  |           |
| ii yoo, astan (ii not dotallod diidoi foodiit dioodoo problemo).   |           |
| Records checked between: 29/10/19- 21/9/21   |           |

| FHI 059, Version 13    | Issued by: FHI   |        |               | Date         | of issue: 12 |
|------------------------|--|--------|---------------|--------------|--------------|
| Case Number:           | 2021-0343 Site No:   | SS091  | 3             |              |              |
| Date of Visit          | 21/09/2021 Inspector:                                      |        |               |              |              |
| Number of Susceptil    | ole species on site  |        |               |              |              |
|                        | ies present = <u>LOW</u> risk                              |        |               | .,           |              |
| If susceptible species | present, score for each pathogen                           |        | No            | Yes          |              |
|                        | Susceptible to Bonamia ostrea (OED)                        |        | 0             | 25           | 25           |
|                        | Susceptible to Marteilia refringens (OED, MED)             |        | 0             | 3            | 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           | 10           |
| Live shellfish moven   | nents  | 0      | 1-2           | >3           |              |
| Movements on           | Frequency of movements on from equivalent MS               | 0      | 5             | 10           | U            |
|                        | Frequency of movements on from equivalent zone or          |        |               |              |              |
|                        | compartment including third country                        | 0      | 10            | 20           | ш            |
|                        | Number of suppliers  | 0      | 5             | 10           | 0            |
| 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            | ш            |
|                        | Number of destinations                                     | 0      | 3             | 6            | 0            |
|                        |  |        | Secure        | Unsecure     |              |
| Management             |  |        | (effluent     | (no effluent |              |
| practices              |  | None   | treatment)    | treatment)   |              |
| Water contacts with    | Depuration of stock from own sites within MSS              |        |               |              |              |
| depuration facilities  | management area  | 0      | 1             | 2            | 0            |
|                        | Depuration of stock from other businesses sites within     |        |               |              |              |
|                        | MSS management area  | 0      | 2             | 6            | l 1          |
|                        | Depuration of stock from sites outwith MSS management      |        |               |              |              |
|                        | area   | 0      | 4             | 8            | oxdot        |
| Biosecurity            | Number of sites  | 1      | 2 or 3        | ≥ 4          |              |
| Contacts with other    | Sites operating from single shorebase                      | 0      | 1             | 2            | 2            |
| sites                  | Sites sharing staff and equipment                          | 0      | 1             | 5            | 5            |
|                        |  |        | Yes           | No           |              |
|                        |  |        |               |              |              |
|                        |  |        |               |              |              |
|                        | Disinfection of equipment between sites, use of footbath   | s etc  | 0             | 2            | 0            |
|                        | Disinfection of equipment between sites, use of footbath   | is etc |               | 2            |              |
|                        | Disinfection of equipment between sites, use of footbath   | is etc | Total<br>Risk | 2            | 48<br>HIGH   |

| Case No:         | 2021-0343       |          |                      | Date of visit:       | 21/09/2021 |         |      |                      |  |
|------------------|-----------------|----------|----------------------|----------------------|------------|---------|------|----------------------|--|
| Site No:         | SS0913          | 1        |                      | Inspector:           |            | ı       |      |                      |  |
| Results Summary  | Freq.           |          |                      | Date of Notification |            |         |      |                      |  |
| ,                | · ·             | Database | Insp                 | Phone                | Insp       | Writing | Insp | 2 <sup>nd</sup> Insp |  |
|                  |                 |          |                      |                      |            |         |      |                      |  |
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| Damant Cumrus    |                 |          |                      |                      |            |         |      |                      |  |
| Report Summary   | D 1             |          | and .                |                      |            |         |      |                      |  |
| Case Type<br>ECI | Date 47/44/2024 | Insp     | 2 <sup>nd</sup> Insp |                      |            |         |      |                      |  |
| EOI              | 17/11/2021      |          |                      |                      |            |         |      |                      |  |
|                  |                 |          |                      |                      |            |         |      |                      |  |
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|                  |                 |          |                      |                      |            |         |      |                      |  |





#### SUMMARY FOR INFORMATION OF SITE OPERATOR

BUSINESS NO SB0533 DATE OF VISIT 21/09/2021 SITE NO SS0913 SITE NAME Ard Mhor

CASE No 20210343 INSPECTOR

Inspection under the Aquatic Animal Health (Scotland) Regulations 2009

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

All epidemiological units were inspected. 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.

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.

Signed:

Fish Health Inspector

Date: 19/11/2021

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