Case No: 2019-0348 Date of visit: 17/07/2019

Time spent on site: 2hrs Main Inspector: [redacted]

Site No: FS1240 Site Name: Highland
Business No: FB0544 Business Name: Scotland

Case Types: 1 DIA 2 3 4 5 6

Water Temp (°C): n/a Thermometer No: FHI 045 completed

Observations: Region: HI Water type: B CoGP MA

| | | |
|---|---|---|
| Dead/weak/abnormally behaving fish present? | Y | If yes, see additional information/clinical score sheet. |
| Clinical signs of disease observed? | Y | If yes, see additional information/clinical score sheet. |
| Gross pathology observed? | Y | If yes, see additional information/clinical score sheet. |
| Diagnostic samples taken? | Y | |

UNI/REG only - if unable to carry out intended visit detail reason below:

**Additional Case Information:**

One frozen fish collected for sampling - dead fish reported to have been removed from pool - NG945899.

WRFT obtained a licence to remove moribund salmon from river for sampling. Accompanied trust director on inspection of river from pool that moribund fish had been observed down to the pool at mouth of river. No dead or moribund fish observed. It was report that a total of 11 fish had been observed with similar signs to the dead fish removed and frozen. 6 fish were reported to have been in the pool on Friday 12th, however, that stretch of the river hadn't been fished over weekend.
4 dead salmon have reportedly been removed. The fish had all been observed over the previous couple of weeks. No other rivers in area reported to have been affected.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Case no: | 2019-0348 | Site No: | FS1240 | Date of visit/ Sampling: | 17/07/2019 | 17/( | | | |
| Priority samples: | VI | | BA | | PA | | MG | | HI | |
| Time sampling starts/ends: | 16:00:00 | 16:30:00 | Inspector: | [redacted] | VMD No. | 0 | | | |
| Environmental conditions: | 1 | Indoors | 2 | | 3 | | 4 | | 5 | |
| Summary samples | HIST | Y | BA | Y | MG | Y | VI | Y | PA | Y | Total Samples |

**Add Fish/Pools - click**

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Pool/Fish No | F1 | P1 | | | | | | | | | | |
| | Fish nos | 1 | 1 | | | | | | | | | | |
| | Pool Group | P1 | P1 | | | | | | | | | | |
| Stock Details | Species | SAL | SAL | | | | | | | | | | |
| | Average weight | 4kg | 4kg | | | | | | | | | | |
| | Sex | Female | Female | | | | | | | | | | |
| | Water Type | FW | FW | | | | | | | | | | |
| | Stock Origin | Wild - Little Gruinard | Wild - Little Gruinard | | | | | | | | | | |
| | Facility No | N/A | N/A | | | | | | | | | | |

07/2019 Additional Sample Information:

Fish was collected frozen, having been removed from the river by ghillie. Therefore no histology taken.

2 Total Tests assigned 5

Case No: 2019-0348 Date of visit: 17/07/2019

Site No: FS1240 Inspector: [redacted]

| Results Summary | Freq. | Date of Notification | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Database | Insp | Phone | Insp | Writing | Insp | 2nd Insp |
| MG_IHN | 0/1 | 25/07/2019 | [redacted] | | | 17/06/2020 | [redacted] | [redacted] |
| MG_IPN | 0/1 | 25/07/2019 | [redacted] | | | 17/06/2020 | [redacted] | [redacted] |
| MG_SAV | 0/1 | 25/07/2019 | [redacted] | | | 17/06/2020 | [redacted] | [redacted] |
| MG_VHS | 0/1 | 25/07/2019 | [redacted] | | | 17/06/2020 | [redacted] | [redacted] |
| PSFL | 1/1 | 01/08/2019 | [redacted] | | | 17/06/2020 | [redacted] | [redacted] |
| NSIG | 1/1 | 01/08/2019 | [redacted] | | | 17/06/2020 | [redacted] | [redacted] |

| Report Summary | | | |
|---|---|---|---|
| Case Type | Date | Insp | 2nd Insp |
| DIA | 17/06/2020 | [redacted] | [redacted] |

[redacted]

Skye & Wester Ross Fisheries Trust
Harbour Centre
Gairloch
Wester Ross
IV21 2BQ

[redacted]

# FISH HEALTH INSPECTORATE VISIT REPORT

## SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|---|---|---|---|
| **BUSINESS NO** | FB0544 | **DATE OF VISIT** | 17/07/2019 |
| **SITE NO** | FS1240 | **SITE NAME** | Highland |
| **INSPECTOR** | [redacted] | **CASE NO** | 20190348 |

## Section 1: Summary

One frozen fish was collected and sampled on return to the laboratory, *Pseudomonas fluorescens* was identified on the plates taken from gill material of fish one.

A second bacterium observed from the plates taken from kidney material of fish one, this was not fully identified but did not match the characteristics of a known fish pathogen.

Overall the level and purity of growth would not suggest these organisms are the primary source of morbidity; however, *P. fluorescens* has been associated with fish disease.

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

## Section 2: Case Detail

Observations

One frozen fish was collected for sampling. The frozen fish had been removed from a pool on the Little Gruinard soon after death. No dead or moribund fish were observed at time of inspection. It was reported that a total of 11 fish had been observed with similar signs to the dead fish that was removed and frozen.

Samples

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



Marine Laboratory, 375 Victoria Road, Aberdeen, AB11 9DB
Tel – 0131 244 3498 Fax – 0131 244 0944 Email – ms.fishhealth@gov.scot
Website - www.gov.scot/Topics/marine/science

| Fish number | Species | Stage | Origin |
|---|---|---|---|
| 1 | Atlantic salmon | 4kg | Wild - Little Gruinard |

Results

**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.

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

The following bacteria were isolated from fish one

*Pseudomonas fluorescens*

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

Infectious haematopoietic necrosis virus (IHNV)
Infectious pancreatic necrosis virus (IPNV)
Infectious salmon anaemia virus (ISAV)
Salmonid alphavirus (SAV)
Viral haemorrhagic septicemia virus (VHSV)

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).

Signed: [redacted] Date: 17/06/20

Fish Health Inspector

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



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