



Health Management & Mortality Management Plan (HMP) Inspection (with reference to requirements of HMP and C.O.L. Dec2010)

NB. Section19: Unless otherwise noted: "For all types of management plans referenced in this licence..., the licence holder shall keep all records required by these conditions... on-site for the duration of the production cycle..."

Operation Description and Information Reported to DFO

AQLicence #: _____ and Company Name: _____

Fish transfer inventory (s.4.1(b), 4.2(b): _____ & approx. date of last transfer: _____

Elevated mortality reports (s.14.1) (>4000kg, if any): YES ☐ NO ☐ Date: _____

Average lice abundance (as per latest report, (s. 9.2): NA ☐

Fem: _____ Mot: _____ Chal: _____ Calig: _____ Report Date: _____

Any dates where ">3 trigger" was reached in past 3 months? YES ☐ Date: _____ NO ☐

Pens reported as last assessed for lice: NA ☐ Ref Pen: _____; Pen _____; Pen _____

Most recent Fish Health Events reported (if any) (s.9.3): _____

Inspection date and time: _____

Farm personnel interviewed: _____

HMP inspection conducted by DFO staff: _____

Additional activities on this inspection date: Fish Health ☐ Sea Lice ☐ Other: ☐ _____

*Requirements highlighted in yellow are important and need immediate on-site discussion or attention, if deemed deficient by DFO staff.

1. Biosecurity (s.14.2a(vi); 13.24; HMP s.5)

- Is a functional footbath present at all arrival locations? YES ☐ NO ☐
- Type of disinfectant used in bath: Virkon ☐ Bleach ☐ Ovadine ☐ Pucks ☐ Other ☐
- Is there a footbath at other critical traffic points on-site (i.e. ramps)? YES ☐ NO ☐ NA ☐
- While on-site, was the footbath used by site staff? YES ☐ NO ☐ Not Observed ☐
- Is there evidence, other than footbaths, of minimizing potential pathogen transfer (i.e. sanitizers, sprayers, net dips, other)? YES ☐ NO ☐
- Are footbaths and disinfection liquid(s) disposed of in mort totes? YES ☐ NO ☐ Other: _____

Visitor protocol (s.15.2; HMP s.5):

- Are there signs directing visitors to a well-marked moorage areas / dock? YES ☐ NO ☐
- Are there signs indicating restricted moorage areas? (e.g. at mort float) YES ☐ NO ☐
- Are visitor and biosecurity procedures communicated? YES ☐ NO ☐

2. Feed, Nutrition & Medication (App V. Required Elements HMP; (s.5))

- Is feed stored in a contained, protected location (not in weather elements)? YES ☐ NO ☐
- Are feeds on site within best before date? YES ☐ NO ☐ NA ☐
- Is feed, observed as being fed to fish, free of visible mould or contaminants? YES ☐ NO ☐ Not Observed ☐

If medicated feed is on-site (s.7.2; 5):

- If yes, is it recorded in the Rx file on-site? YES ☐ NO ☐ NA ☐
- If yes, are the med feed bags easily identified and properly stored? YES ☐ NO ☐ NA ☐

3. Monitoring Water Quality (HMP s.5; 7.1(k))

- Are microscopes and other plankton monitoring equipment available? YES ☐ NO ☐
- Is equipment available for measuring water quality? YES ☐ NO ☐
- Is equipment on-site to respond to blooms or low D.O. (e.g. tarps, bubble curtains, air compressors, etc.)? YES ☐ NO ☐ NA ☐
- Are records of water quality on-site? YES ☐ NO ☐
- If yes, are they up-to-date? YES ☐ NO ☐ NA ☐
- If yes, is there evidence of increased monitoring during poor water quality events (e.g. plankton bloom or low oxygen)? YES ☐ NO ☐ NA ☐

4. Fish Health - Carcass Retrieval Protocols (s.14.2a thru c; HMP s.5)

If carcass retrieval occurred during this assessment: NA ☐

- If divers, are they following basic HMP biosecurity protocols? YES ☐ NO ☐ NA ☐
- Does staff wear raingear, gloves and rubber boots during collection? YES ☐ NO ☐ NA ☐
- Is disinfectant used during the carcass collection? YES ☐ NO ☐ NA ☐
- Is carcass collection equipment (dive rings, dip nets) disinfected between pens? YES ☐ NO ☐ NA ☐
- Is there evidence of designated carcass containers? YES ☐ NO ☐ NA ☐
- ***Are the carcasses properly covered & contained to facilitate biosecurity?** YES ☐ NO ☐ NA ☐

From records/observation: (s.7.1c; 14.2; HMP s.5)

- Does staff categorize carcasses? YES ☐ NO ☐
- Is carcass collection performed by a known and effective method? YES ☐ NO ☐
- Method used: Divers ☐ Pump ☐ Bottom rings ☐ Other: _____
- Is there a routine schedule for carcass collection from pens? YES ☐ NO ☐
- ***Does the frequency facilitate early detection of disease (i.e. fresh silvers)?** YES ☐ NO ☐
- Is a mort float located away from the production fish? YES ☐ NO ☐ NA ☐: _____
- If yes, does the mort float meet biosecurity principles (safe, secure, etc)? YES ☐ NO ☐ NA ☐: _____
- If no mort float, where are the carcasses stored? _____ How long? _____

5. Fish Health / Husbandry Records (s.7.1; 7.2; 7.4; 19.2; HMP s.5)

- Do written/computer records address:
 - Mortality number or rate? YES ☐ NO ☐ NA ☐
 - Carcass classifications? YES ☐ NO ☐ NA ☐
 - Sampling events (if any)? YES ☐ NO ☐ NA ☐
 - Is this a single year class production unit? YES ☐ NO ☐ NA Brood ☐
 - Is this a single species production unit? YES ☐ NO ☐
 - Fish movements: is species on-site listed on the licence? YES ☐ NO ☐ NA ☐
 - Is there written confirmation of in/out fish transfers? (s.4.1(b)) YES ☐ NO ☐ NA ☐
 - If yes, are veterinary attestations attached? (s.4.1b(iv)) YES ☐ NO ☐ NA ☐
 - If yes are treatment records from previous facility accessible?(s.7.2(j,k)) YES ☐ NO ☐ NA/hatchery ☐
 - Prescription records are current (i.e. TMS, antibiotics, SLICE)? (if any)? YES ☐ NO ☐ NA ☐
 - Is daily administration of med feed recorded (i.e. pens & feed amounts)? YES ☐ NO ☐ NA ☐
 - Other types of mitigative actions logged (i.e. net changes, split fish, etc.)? YES ☐ NO ☐ NA ☐
 - Carcass evaluation and sampling by fish health staff is recorded? YES ☐ NO ☐ NA/Town ☐
 - Indications that fish health and mortality records can be, or are, reviewed by the company veterinarians or fish health staff? (s.7.4; s.19.2) YES ☐ NO ☐ NA/Town ☐

6. SEA LICE – Handling Procedures (Atlantics, s.6; Appendix VII)

NA ☐ (not Atl. Salmon, s.6.4)

If Pacific salmon: do records indicate intermittent/opportunistic monitoring of lice? (s.6.4)

YES ☐ NO ☐

If lice counts occurred during this HMP assessment:

- Are staff following fish-gathering protocols (as per s.6; Appendix VII; HMP) (i.e. crowding first then random selection)? YES ☐ NO ☐ NA ☐
- Method of capture was: Large seine ☐ Box seine ☐ Shallow net ☐ Chum/dip ☐ Other _____
- Were methods (i.e. feed used) to facilitate the capture of representative fish? YES ☐ NO ☐ NA ☐
- Are staff using anaesthetic properly (i.e. able to handle fish in 1 - 2 minutes)? YES ☐ NO ☐ NA ☐
- *Are fish adequately contained (catch nets, low stress, adequate tote size)? YES ☐ NO ☐ NA ☐
- Are staff handling fish to ensure accurate lice enumeration? YES ☐ NO ☐ NA ☐
- Are staff handling fish in a manner that minimizes fish stress and trauma? YES ☐ NO ☐ NA ☐
- Are staff categorizing the lice into required life-stages and species? YES ☐ NO ☐ NA ☐

From records:

- Do counts, last reported by farm to DFO, agree with farm records (s.9.1)? YES ☐ NO ☐ NA ☐
- If an average of >3 motiles/fish has been experienced by this farm in the past 3 months, has monitoring increased to at least biweekly? YES ☐ NO ☐ NA ☐
- Do sea lice records address:
 - All sea lice assessment dates and count results? YES ☐ NO ☐ Last date: _____
 - 3 groups of 20 fish within a monthly, or semi-monthly, assessment? YES ☐ NO ☐
 - Is there a designated reference population identified in records? YES ☐ NO ☐
 - Is that reference pop. known and sampled by staff each count? YES ☐ NO ☐

7. Fish Handling, Euthanasia, Welfare (s.8; s.14; HMP s.5)

- If major culls/euthanasia events occurred, have they been recorded? YES ☐ NO ☐ NA ☐
 - Do the records indicate the method of euthanasia or anaesthesia? YES ☐ NO ☐
- The carcass collection was free of live wild fish (s.11.2)? YES ☐ NO ☐ NA ☐
 - If no, were live fish recorded in an incidental catch & release log (s.11.4)? NA ☐
- The farmed mort collection was free of wild fish carcasses (s.11.3; 14.2(b))? YES ☐ NO ☐ NA ☐
 - If no, were wild carcasses recorded in an incidental catch log (s.11.4)? NA ☐

8. Disease Outbreak / Kill Contingency Plan (s.8; HMP s.5)

- *Is information readily available to contact fish health expertise/ team? YES ☐ NO ☐
- Is the Manager/staff aware of farm isolation procedures? YES ☐ NO ☐
- Does a Mass Mortality plan or procedure exist on-site (s.5; s.14.2; s.19.2)? YES ☐ NO ☐
 - If there is a company HMP/MMP document on-site,
 - Date of last review by staff (of pertinent marine sections): _____
 - If no HMP/MMP is on-site, where is it available to staff? Town ☐ Other: _____

INSPECTION RESULT: This facility had _____ inspection items checked **YES** from a total of _____ * applicable inspection items (maximum number = 68 yes)

*If an inspection item is not applicable (NA) then that line item is subtracted from the maximum total (eg. 68 – 14 NA's)

Other Inspection Notes / Comments (e.g. weather, staff or resource limitations, etc.):

My observations of other Conditions of License may require C&P attention. YES ☐ NO ☐
If yes, C&P staff was contacted for follow-up. YES ☐ NO ☐ NA ☐
Photos taken? YES ☐ By whom: _____ NO ☐
If photos taken, they have been titled, dated & filed according to License number. YES ☐ NO ☐

Fisheries and Oceans staff signature: _____ Date: _____

(Print name): _____

Farm staff signature: _____ Date: _____

(Print name): _____

Agency Veterinarian's sign-off: _____ Date: _____

(Print name): _____

A pdf copy of this Inspection Checklist was emailed to the company: YES ☐ NO ☐

The company's Health Rep/Vet was subsequently contacted by DFO: YES ☐ NO ☐ NA ☐

Additional Veterinary notes: