

# Form 3 - Public Disclosure Form

This form shall be submitted by the CAB no less than thirty (30) working days prior to any onsite audit. Any changes to this information shall be submitted to the ASC within five (5) days of the change and not later than 10 days before the planned audit. If later, a new announcement is submitted and another 30 days rule will apply.

The information on this form shall be public and should be posted on the ASC website within three (3) days of submission (except unannounced audits).

This form shall be written to be readable to the stakeholders and other interested parties.

This form should be translated into local languages when appropriate

## **PDF 1 Public Disclosure Form**

| PDF 1.1 Name of CAB        | Bureau Veritas Certification Denmark A/S |
|----------------------------|--|
|                            |  |
| DDE 1.2 Data of Submission | 28_10_2010/20_10_2010/                   |

| PDF 1.2 Date of Submission | 28-10-2019/29-10-2019/ |
|----------------------------|------------------------|
|                            | 26-11-2019             |

#### PDF 1.3 CAB Contact Person

| ct Person                                    |  |
|--|--|
| PDF 1.3.1 Name of Contact Person             | Irene Watten                                     |
| PDF 1.3.2 Position in the CAB's organisation | Lead Auditor                                     |
| PDF 1.3.3 Mailing address                    | Oldenborggade 25-31, 7000 Fredericia,<br>Denmark |
| PDF 1.3.4 Email address                      | asc.farm@dk.bureauveritas.com                    |
| PDF 1.3.5 Phone number                       | 0045 7731 1100                                   |
| PDF 1.3.6 Other                              | www.bureauveritas.dk                             |



## PDF 1.4 ASC Name of Client

PDF 1.4.1 Name of the Client Cermaq Norway AS Horsvågen 10518 PDF 1.4.1.a Name of the unit of certification PDF 1.4.2 Name of Contact Person Silje Ramsvatn Sustainability manager PDF 1.4.3 Position in the client's organisation Nordfoldveien 165, 8286 Nordfold, PDF 1.4.4 Mailing address Norway silje.ramsvatn@cermaq.com PDF 1.4.5 Email address 0047 41148216 PFD 1.4.6 Phone number PDF 1.4.7 Other www.cermaq.com

## PDF 1.5 Unit of Certification

PDF 1.5.1 Single Site x

PDF 1.5.2 Multi-site

PDF 1.5.2.a Ownership status

PDF 1.5.3 Group certification

#### PDF 1.6 Sites to be audited

| Site Name       | GPS Coordinates              | List all species per<br>site and indicate if<br>they are in the scope<br>of the standard | Ownership<br>status (owned/<br>subcontracted) | Date of planned audit<br>and type of audit<br>(Initial, SA1, SA2,<br>recertification, etc.) | Status (new, in production/ fallowing /in harvest) |
|-----------------|------------------------------|--|---|---|--|
| Horsvågen 10518 | N: 68.021135<br>E: 15.302012 | Salmon (Salmo Salar)<br>In scope   | Owned   | 10-12-2019<br>Initial   | In production                                      |



PDF 1.7 Species and Standards

| Standard             | Species (scientific name) produced | Included in scope (Yes/No) | ASC endorsed standard to be used | Version Number              |
|----------------------|------------------------------------|----------------------------|----------------------------------|-----------------------------|
| Abalone 1.1          |                                    |                            |                                  |                             |
| Bivalve 1.1          |                                    |                            |                                  |                             |
| Freshwater Trout 1.0 |                                    |                            |                                  |                             |
| Pangasius 1.1        |                                    |                            |                                  |                             |
| Salmon 1.2           | Salmon (Salmo Salar)               | Yes                        | ASC Salmon Standard              | Version 1.2 -<br>March 2019 |
| Shrimp 1.1           |                                    |                            |                                  |                             |
| Tilapia 1.2          |                                    |                            |                                  |                             |
| Seriola/Cobia 1.1    |                                    |                            |                                  |                             |
| Seabass/ bream and   |                                    |                            |                                  |                             |
| meagre v. 1.1        |                                    |                            |                                  |                             |

PDF 1.8 Planned Stakeholder Consultation(s) and How Stakeholders can Become Involved

| Name/organisation | Relevance for this<br>audit | How to involve<br>this stakeholder<br>(in-<br>person/phone<br>interview/input<br>submission) | When stakeholder may be contacted | How this<br>stakeholder will<br>be contacted |
|-------------------|-----------------------------|--|-----------------------------------|--|
| WWF-Norge         | NGO                         | Invitation to participate in the audit and submit input.                                     | The week before audit             | Sending e-mail<br>before Audit               |
| Norske Lakseelver | NGO                         | Invitation to participate in the audit and submit input.                                     | The week before audit             | Sending e-mail<br>before Audit               |



| Fellesforbundet                   | Workers union | Invitation to participate in the audit and submit input. | The week before audit | Sending e-mail<br>before Audit |
|-----------------------------------|---------------|--|-----------------------|--------------------------------|
| Kystverket                        | Authorities   | Invitation to participate in the audit and submit input. | The week before audit | Sending e-mail<br>before Audit |
| Naturvernforbundet                | NGO           | Invitation to participate in the audit and submit input. | The week before audit | Sending e-mail<br>before Audit |
| Norges Kystfiskarlag              | NGO           | Invitation to participate in the audit and submit input. | The week before audit | Sending e-mail<br>before Audit |
| Mattilsynet                       | Authorities   | Invitation to participate in the audit and submit input. | The week before audit | Sending e-mail<br>before Audit |
| Norsk Ornitologisk<br>Forening    | NGO           | Invitation to participate in the audit and submit input. | The week before audit | Sending e-mail<br>before Audit |
| Fiskeridirektoratet               | Authorities   | Invitation to participate in the audit and submit input. | The week before audit | Sending e-mail<br>before Audit |
| Norges Jeger- og<br>Fiskerforbund | NGO           | Invitation to participate in the audit and submit input. | The week before audit | Sending e-mail<br>before Audit |



| Norges Miljøvernforbund NGO Invitation to participate in the audit and submit input.  Norges Fiskarlag NGO Invitation to participate in the audit and submit input.  Miljødirektoratet Authorities Invitation to participate in the audit and submit input.  Nordland Fylkeskommune Local Municipality Hamarøy kommune Local Municipality Hamarøy kommune Local Municipality Invitation to participate in the audit and submit input.  Hamarøy kommune Local Municipality Invitation to participate in the audit and submit input.  Fylkesmannen i Nordland Fylkes Fiskarlag NGO Invitation to participate in the audit and submit input.  Fylkesmannen i Nordland Fylkes Fiskarlag Local Fishermens' Association Nordland Fylkes Fiskarlag Vegard Strømsnes Association Association Fylitation to participate in the audit and submit input.  Nordland Fylkes Fiskarlag Local Fishermens' Association Fylitation to participate in the audit and submit input.  Nordland Fylkes Fiskarlag Local Fishermens' Association Fylitation to participate in the audit and submit input.  Nordland Fylkes Fiskarlag Local Fishermens' Association Fylitation to participate in the audit and submit input.  Nordland Fylkes Fiskarlag Local Fishermens' Association Fylitation to participate in the audit and submit input.  Nordland Fylkes Fiskarlag Local Fishermens' Association Fylitation to participate in the audit and submit input.  Nordland Fylkes Fiskarlag v Jon Vegard Strømsnes Fylitation to The week before audit Sending e-mail before Audit before Audit before Audit before Audit and submit input. |                           |                    |                                     |                       |              |
|--|---------------------------|--------------------|-------------------------------------|-----------------------|--------------|
| participate in the audit and submit input.  Miljødirektoratet Authorities Invitation to participate in the audit and submit input.  Nordland Fylkeskommune Local Municipality Invitation to participate in the audit and submit input.  Hamarøy kommune Local Municipality Invitation to participate in the audit and submit input.  Fylkesmannen i Nordland regional office Invitation to participate in the audit and submit input.  Fylkesmannen i Nordland regional office Invitation to participate in the audit and submit input.  Nordland Fylkes Fiskarlag Local Fishermens' Association Participate in the audit and submit input.  Steigen Fiskarlag v Jon Local Fishermens' Vegard Strømsnes Association Participate in the audit and submit input.  The week before audit Sending e-mail before Audit before Audit input.  The week before audit Sending e-mail before Audit input.  The week before audit Sending e-mail before Audit input.  The week before audit Sending e-mail before Audit input.  | Norges Miljøvernforbund   | NGO                | participate in the audit and submit | The week before audit | ~            |
| Participate in the audit and submit input.  Nordland Fylkeskommune Local Municipality Invitation to participate in the audit and submit input.  Hamarøy kommune Local Municipality Invitation to participate in the audit and submit input.  Hamarøy kommune Local Municipality Invitation to participate in the audit and submit input.  Fylkesmannen i Nordland regional office Invitation to participate in the audit and submit input.  Nordland Fylkes Fiskarlag Local Fishermens' Association Participate in the audit and submit input.  Steigen Fiskarlag v Jon Local Fishermens' Association Participate in the audit and submit input.  Nordland Sylkes Fiskarlag V Jon Local Fishermens' Association Participate in the audit and submit input.  The week before audit Sending e-mail before Audit  Sending e-mail before Audit  The week before audit Sending e-mail before Audit  Sending e-mail before Audit   | Norges Fiskarlag          | NGO                | participate in the audit and submit | The week before audit | <del>-</del> |
| Participate in the audit and submit input.  Hamarøy kommune  Local Municipality  Invitation to participate in the audit and submit input.  Fylkesmannen i Nordland  regional office  Invitation to participate in the audit and submit input.  Fylkesmannen i Nordland  regional office  Invitation to participate in the audit and submit input.  Nordland Fylkes Fiskarlag  Local Fishermens` Invitation to participate in the audit and submit input.  Steigen Fiskarlag v Jon  Vegard Strømsnes  Association  participate in the audit and submit input.  The week before audit before Audit  Sending e-mail before Audit  The week before audit before Audit  Sending e-mail before Audit  Steigen Fiskarlag v Jon  Vegard Strømsnes  Association  The week before audit Sending e-mail before Audit  | Miljødirektoratet         | Authorities        | participate in the audit and submit | The week before audit | <del>-</del> |
| participate in the audit and submit input.  Fylkesmannen i Nordland regional office Invitation to participate in the audit and submit input.  Nordland Fylkes Fiskarlag Local Fishermens` Invitation to participate in the audit and submit input.  Nordland Fylkes Fiskarlag Local Fishermens` Invitation to participate in the audit and submit input.  Steigen Fiskarlag v Jon Local Fishermens` Invitation to The week before audit before Audit  Steigen Fiskarlag v Jon Local Fishermens` Invitation to participate in the audit and submit input.  Steigen Fiskarlag v Jon Local Fishermens` Invitation to participate in the before Audit  | Nordland Fylkeskommune    | Local Municipality | participate in the audit and submit | The week before audit | <del>-</del> |
| participate in the audit and submit input.  Nordland Fylkes Fiskarlag  Local Fishermens` Invitation to The week before audit before Audit participate in the audit and submit input.  Steigen Fiskarlag v Jon  Vegard Strømsnes  Local Fishermens` Invitation to The week before audit before Audit Sending e-mail before Audit before Audit   | Hamarøy kommune           | Local Municipality | participate in the audit and submit | The week before audit | •            |
| Association participate in the audit and submit input.  Steigen Fiskarlag v Jon Local Fishermens` Invitation to The week before audit Sending e-mail Vegard Strømsnes Association participate in the before Audit  | Fylkesmannen i Nordland   | regional office    | participate in the audit and submit | The week before audit | <del>-</del> |
| Vegard Strømsnes Association participate in the before Audit   | Nordland Fylkes Fiskarlag |                    | participate in the audit and submit | The week before audit | <del>-</del> |
| input.   |                           |                    | participate in the audit and submit | The week before audit | <del>-</del> |



| Steigen Jeger og fisk v | Local interest | Invitation to      | The week before audit | Sending e-mail |
|-------------------------|----------------|--------------------|-----------------------|----------------|
| Marius Falck Folland    | organisation   | participate in the |                       | before Audit   |
|                         |                | audit and submit   |                       |                |

## **PDF 1.9 Proposed Timeline**

| PDF 1.9.1 | Contract Signed:        | 29-11-2018                                 |
|-----------|-------------------------|--|
| PDF 1.9.2 | Start of audit:         | 10-12-2019                                 |
| PDF 1.9.3 | Onsite Audit(s):        | 10-12-2019                                 |
| PDF 1.9.4 | Determination/Decision: | To be assessed at the latest 30 working    |
|           |                         | days after audit, except in the case       |
|           |                         | where a major non-conformity is            |
|           |                         | raised. Then a certification decision will |
|           |                         | be postponed to after the deadline for     |
|           |                         | closing a major non-conformity, which      |

## PDF 1.10 Audit Team

|            | Column1        | Name            | ASC Registration I |
|------------|----------------|-----------------|--------------------|
| PDF 1.10.1 | Lead Auditor   | Irene Watten    |                    |
| PDF 1.10.2 | Team member    | Mohammad Jasour |                    |
|            | Team member    | Trygve Helle    |                    |
|            |                |                 |                    |
| PDF 1.10.3 | Social Auditor | Irene Watten    |                    |

can be max 3 months.



# **ASC Audit Report - Opening**

## **General Requirements**

- C1 Audit reports shall be written in English and in the most common language spoken in the areas where the operation is located.
- **C2** Audit reports may contain confidential annexes for commercially sensitive information.
  - **C2.1** The CAB shall agree the content of any commercially sensitive information with the applicant, which can still be accessible by the ASC and the appointed accreditation body upon request as stipulated in the certification contract.
  - **C2.2** The public report shall contain a clear overview of the items which are in the confidential annexes.
  - **C2.3** Except for the annexes that contain commercially sensitive information all audit reports will be public.
- C3 The CAB is solely responsible for the content of all reports, including the content of any confidential annexes.

## C4 Reporting Deadlines for certification and re-certification audit reports (in working day)

- **C4.1** Within thirty (30) days of the completing of the audit the CAB shall submit a draft report in English and the national or most common language spoken in the area where the operation is located.
- C4.2 Within five (5) days the ASC should post the draft report to the ASC website.
- **C4.3** The CAB shall allow stakeholders and interested parties to comment on the report for fifteen (15) days.
- **C4.4** Within twenty (20) days of the close of comments, the CAB shall submit the final report to the ASC in English and the national or most common language spoken in the area where the operation is located.
- **C4.5** Within five (5) days the ASC should post the final report to the ASC website.
- **C4.6** Audit reports shall contain accurate and reproducable results.

## C5 Reporting Deadlines\* for <u>surveillance</u> audit reports

- **C5.1** Within ninety (90) days of the completing of the audit the CAB shall submit a final report in English and the national or most common language spoken in the area where the operation is located.
- C5.2 Within five (5) days the ASC should post the final report to the ASC website.
- **C5.3** Audit reports shall contain accurate and reproducable results.



# 1 Title Page

| 1.1 Name of Applicant  | Cermaq Norway AS  |
|--|---|
| 1.2 Report Title [e.g. Public Draft<br>Certification Report/ Final<br>certification report/Surveillance<br>report] | 10-12-2019 Cermaq Horsvågen ASC Initial Audit Draft Report              |
| 1.3 CAB name   | Bureau Veritas Certification Denmark A/S                                |
| 1.4 Name of Lead Auditor   | Irene Watten  |
| 1.5 Names and positions of report authors and reviewers  | Report Author: Mohammad Jasour, ASC Lead Auditor. Reviewer: Sølvi Skare |
| 1.6 Client's Contact person: Name and Title  | Silje Ramsvatn, Sustainability manager                                  |
| 1.7 Date   | Date of audit 10-11-2019. Date of report writing: 15-11-2019            |

## 2 Table of Contents



## 3 Glossary

Terms and abbreviations that are specific to this audit report and that are not otherwise defined in the ASC glossary MOM-B and MOM-C: Surveys of benthic environment at or near farm, according to NS 9410 (Norwegian Standard 9410).

NFSA: Norwegian Food Safety Authority.

"Nytek" NS9415 (Norwegian Standard 9415): Technical certifications of Marine fish farms with Requirements for design, dimensioning, production, installation and operation.

MTB: Maximum Allowed Biomass.

FHP: is Fish Health Plan.

GG: GLOBALG.A.P. IFA (Integrated Farm Assurance. GGN: GLOBALG.A.P. unique registration number. NINA: Norwegian institute for Nature Research.

IMR: Institute of Marine Research.

## 4 Summary

A concise summary of the report and findings. The summary shall be written to be readable to the stakeholders and other interested parties.

4.1 A brief description of the scope of the audit (including activities of the UoC being audited)

This audit covers all the principles and criteria in ASC salmon standard, Version 1.2 - March 2019. The audit include interview of the farm workers and review of documentation. Audit covering principle 6 was performed by review of relevant documentation, interviews with the quality management and confidential interviews with the employees. The interview was performed without interruption from management. Harvest was not observed at this initial audit.

4.2 A brief description of the operations of the unit of certification

The unit of certification is the entire Horsvågen seafarm, site number 10518. Anevila is an ongrowing farm for Atlantic Salmon from smolt and until the salmon is ready for slaughtering. The farm is located, Økssundet waterbody in Hamarøy and Steigen municipality in Nordland County. The production system is based on 8 cages 160 m. The MTB is 2340 tons.



| 4.         | Type of unit of certification (select only one type of unit of certification in the list)   | Single farm  |  |  |  |
|------------|---|--|--|--|--|
| 4.         | .4 Type of audit (select all the types of audit that apply in the list)   | Initial  |  |  |  |
| 4.         | .4.1 Number of sites included in the unit of certification Initial audit - mm/yyyy Surveillance audit 1 - mm/ yyyy Surveillance audit 2 - mm/ yyyy Recertification audit - mm/ yyyy | Owned by client  Subcontracted by client   |  |  |  |
| 4.         | .5 A summary of the major findings  | One minor NC was found on indicator 2.2.6  |  |  |  |
| 4.         | .6 The Audit determination  | Bureau Veritas has performed the certification decision based on the audit report and the review. No information was submitted by stakeholders during the public consultation period. The unit of certification has the capability to consistently meet the objectives of the relevant ASC salmon standard version 1.2 |  |  |  |
| 5 CAB Cont | tact Information  |  |  |  |  |
| 5.         | .1 CAB Name   | Bureau Veritas Certification Certification Denmark A/S   |  |  |  |
| 5.         | .2 CAB Mailing Address  | Oldenborggade 25-31, 7000 Fredericia, Denmark  |  |  |  |
| 5.         | .3 Email Address  | asc.farm@dk.bureaueveritas.dk  |  |  |  |
| 5.         | .4 Other Contact Information  | www.bureaueveritas.dk  |  |  |  |



## 6 Background on the Applicant Information on the Public Disclosure Form 6.1 (Form 3) except 1.2-1.3. All information updated as necessary to reflect the audit as conducted. Horsvågen is a conventional floating cage salmon farm. The 8 production cages are circular floating A description of the unit of certification 6.2 plastic rings with the dimension 160 m circumference, with pointed nets. Central on the farm is a feed (for intial audit) / changes, if any (for barge, with centralized feeding system and visual/camera control of feeding. All installations are surveillance and recertification audits ) certified after "NS-9415 NYTEK" regulations standard. Register, details and maps of location for the site available at: http://www.fiskeridir.no/register/akvareg/ Other certifications currently held by the GlobalGAP 6.3 unit of certification Other certification(s) obtained by the UoC 6.4 before this audit Estimated annual production volumes of 6.5 5000 mt the unit of certification of the current year Actual annual production volumes of the 6.6 2018: 5334 mt unit of certification of the previous year ( mandatory for surveillance and recertification audits) 6.7 Production system(s) employed within the Floating net-pens/cages unit of certification (select one or more in the list)



Number of employees working at the unit 6.8 of certification (see notes in comment to this cell)

10 permanent employees plus site manager.

Size, and/or number of ponds, pens (if 6.9 multi site, per site)

8 cages with the dimension 160 m circumference

## 7 Scope

The Standard(s) against which the audit 7.1 was conducted, including version number ASC Salmon Standard, version 1.2 March 2019

The species produced at the applicant farm Atlantic Salmon (Salmo salar) 7.2 (in English and Latin names)

A description of the scope of the audit 7.3 of certification covers all production or harvest areas (i.e. ponds) managed by the operation or located at the included sites, or whether only a sub-set of these are included in the unit of certification. If only a sub-set of production or harvest areas are included in the unit of certification these shall be clearly named.

The audit was conducted as document reviews (digital and hard-copy information) as well as interviews including a description of whether the unit conducted with relevant staff of the site Horsvågen in which Salmo salar is grown. Demonstrations of equipment and processes took place, relevant to the scope of the audit, according to the ASC Salmon Standard v1.2. No sub-sites are operated by the farm and the complete farm is included in the scope of certification. Harvest was not witnessed during the audit. Live fish for harvest is transported to harvest plants by subcontracted wellboates (se 7.4 below for details).



7.4 The names and addresses of any storage, processing, or distribution sites included in the operation (including subcontracted operations) that will potentially be handling certified products, up until the point where product enters further chain of custody.

NA.

**7.5** Description of the receiving water body(ies).

The farm is located in municipality of Hamarøy, in Nordland country. Sites receiving water-body is Økssundet. Regional water-body authority is Nordland Fylkeskommune. This is a coastal water area. Categorised as a coastal fjord, of Euhaline nature (>30). Ecological quality is defined as good. Chemical condition is not defined in public documentation.

Details @ www.vannportalen.no

The site is under voluntary ABM system. There is other salmon farming activity in the area, including nearby farms. There are natural wild salmon populations in the area. Overview of salmon watercourses in the area are available in map tools from the Environment Agency / Salmon Registry: http://lakseregister.fylkesmannen.no/lakseregister/public/default.aspx

#### 8 Audit Plan

8.1 The names of the auditors and the dates when each of the following were undertaken or completed: conducting the audit, writing of the report, reviewing the report, and taking the certification decision.

Audit date: 10-12-2019

ASC lead auditor: Mohammad Jasour and Irene Watten

ASC auditor: Trygve Helle Reporting date: 15-12-2019

Reviewer: Sølvi Skare

Reviewing date:14-02-2020/16-02-2020

Certification decision:



| <b>0.2</b> I I C V I C G S / I G G G G G G G G G G G G G G G G G G | 8.2 | <b>Previous Audits</b> | (if | ар | plica | ble | ) |
|--|-----|------------------------|-----|----|-------|-----|---|
|--|-----|------------------------|-----|----|-------|-----|---|

| 8.2.1 | Initial audit - mm/yyyy          |
|-------|----------------------------------|
|       | Surveillance audit 1 - mm/ yyyy  |
|       | Surveillance audit 2 - mm/ yyyy  |
|       | Recertification audit - mm/ yyyy |
|       | Unannounced audit - mm/ yyyy     |
|       | NC close-out audit - mm/ yyyyy   |
|       | Scope extention audit mm/ yyyy   |

| NC reference | Standard<br>clause<br>reference | Closing deadline - status - closing date of each NC |
|--------------|---------------------------------|---|
|              | 2.2.6.                          | The NC  |
|              |                                 |   |
|              |                                 |   |
|              |                                 |   |
|              |                                 |   |
|              |                                 |   |
|              |                                 |   |

# **8.3** Audit plan as implemented including:

| 8.3.1 | Desk Reviews                                  |
|-------|---|
| 8.3.2 | Onsite audits                                 |
| 8.3.3 | Stakeholder interviews and Community meetings |
| 8.3.4 | Draft report sent to client                   |
| 8.3.5 | Draft report sent to ASC                      |
| 8.3.6 | Final report sent to Client and ASC           |

|   | Dates      | Locations  |
|---|------------|--|
|   | dec-19     | Bureau Veritas Certification, Fredericia, Denmark                |
|   | 10-12-2019 | Main office Cermaq Norway AS, Nordfold, Norway<br>Horsvågen site |
| 6 | 02-12-2019 | No stakeholder attended the audit                                |
|   | 17-02-2020 | Bureau Veritas Certification, Fredericia, Denmark                |
|   | 17-02-2020 | Bureau Veritas Certification, Fredericia, Denmark                |
|   |            |  |



8.4 Names and affiliations of individuals consulted or otherwise involved in the audit including: representatives of the client, employees, contractors, stakeholders and any observers that participated in the audit.

Silje Ramsvatn, Sustainability manager Ingunn S. Johnsen, Sustainability coordinator Torbjørn Hjertø, Health and Saftey Manager Tiril Slettjord, Fish Health Area manager Nordland 2 Site managers with 6 employees

8.5 Stakeholder submissions, including written or other documented information and CAB written responses to each submission at different stages of the certification process (audit notification, during on-sitt audit, public comment period)

| Name of stakeholder<br>(if permission given<br>to make name<br>nublic) | Relevance to be contacted   |  | CAB<br>responded<br>Yes/No | Brief summary of points Raised | Use of comment<br>by CAB | Response sent<br>to stakeholder |
|--|---|--|----------------------------|--------------------------------|--------------------------|---------------------------------|
|  |   |  |                            |                                |                          |                                 |
| Q  | ites exempted from the scope of an d how they meet conditions in E5.1.i |  |                            |                                |                          |                                 |
| 8.6. E5.1.ii Justifications und  | ation for auditing site(s) meeting der E5.1.i                           |  |                            |                                |                          |                                 |
| <b>8.7</b> E5.1.1.i List of  | sites removed after the initial audit                                   |  |                            |                                |                          |                                 |
| 8.7. E5.2.2 Reason certificate.  | for the removal of sites from the                                       |  |                            |                                |                          |                                 |
| QQ   | tes included in the unit of as been attached                            |  |                            |                                |                          |                                 |
|  | fallowing period included in the surveillance and re-certification      |  |                            |                                |                          |                                 |

#### AUDIT MANUAL - ASC Salmon Standard v1.2

Scope: species belonging to the genus Salmo and Oncorhynchus

#### INSTRUCTION TO FARMS/AUDITORS:

This audit manual was developed to accompany version 1.2 of the ASC Salmon Standard.

References in this Audit Manual to Appendices can be found in the ASC Salmon Standard document.

#### PRINCIPLE 1: COMPLY WITH ALL APPLICABLE NATIONAL LAWS AND LOCAL REGULATIONS Criterion 1.1 Compliance with all applicable local and national legal requirements and regulations Audit evidence (Per indicator, Provide an explanation 1. Write down all audit evidence. Audit evidence (including evidence of conformity and select one of the reason(s) for the Provide nonconformity) should be recorded so that the audit can be repeated by a different audit category in the classification of any NC values - if liance Criteria drop-down or non-applicability applicable (Use as guidance for audit only) 2. Replace explanitory text. menu) for the 3. If you see any Compliance Criteria which is not listed below, please describe also in the respective cells below Indicator A. Review compliance with applicable land and water use laws. A) Electronic copies of laws, regulations and requirements with references to Lovdata with a. Maintain digital or hard copies of applicable land and water use laws. updates and electronic links in Intelex system. Covered by internal procedures in QMS. Strict monitored by relevant authorities on these issues. Indicator: Presence of documents demonstrating b. Maintain original (or legalised copies of) lease agreements, land titles, or concession B) Approved operating plan for 2019-2020 from Fisheries Directorate dated 26.02.2019 with 1.1.1 compliance with local and national regulations and permit on file as applicable. reference number of 18/15753. Discharge permit Fylkesmannen i Nordland dt 21.05.2019, requirements on land and water use MTB 2340 tonns valid until 31.12.2021. Compliant Requirement: Yes C) Inspection from NFSA (Mattilsynet), dt. 24.11.2019.No NCs. . Keep records of inspections for compliance with national and local laws and regulations (if Inspection from Fiskeridirektoratet on 30.12.2019, Report has not been issued yet. such inspections are legally required in the country of operation). Applicability: All D) Permit approval for location from Norwegian authorites. Fisheries directorate map "kart fiskeridir.no", map from "Naturbase"and map nasjonale laksefjorder shows no conflicts. d. Obtain permits and maps showing that the farm does not conflict with national with national preservation areas and is within area designated for Aquaculture. The site is nreservation areas located in a approved area for aquaculture a. Maintain records of tax payments to appropriate authorities (e.g. land use tax, water use A) Authorised auditor report/statement for organisation number 980211282, dt.01.07.2019 tax, revenue tax). Note that CABs will not disclose confidential tax information unless client is by Deloitte Indicator: Presence of documents demonstrating required to or chooses to make it public. compliance with all tax laws B) Lovdata access to updated versions in quality system Intelex 1.1.2 Compliant Requirement: Yes Maintain copies of tax laws for jurisdiction(s) where company operates. C) Approved operating plan for 2019-2020 from Fisheries Directorate dated 26.02.2019 with Applicability: All reference number of 18/15753. Discharge permit Fylkesmannen i Nordland dt 21.05.2019, .. Register with national or local authorities as an "aquaculture activity". MTB 2340 tonns valid until 31.12.2021. Indicator: Presence of documents demonstrating . Maintain copies of national labor codes and laws applicable to farm (scope is restricted to compliance with all relevant national and local labor law the farm sites within the unit certification.) and regulations a) Lovdata access to updated versions in quality system Intelex 1.1.3 Compliant Requirement: Yes b. Keep records of farm inspections for compliance with national labor laws and codes (only if b) No inspection from NLA (Arbeidstilsynet) such inspections are legally required in the country of operation). Applicability: All

|                             | Indicator: Presence of documents demonstrating   | a. Obtain permits for water quality impacts where applicable.                                     | A) Approved operating plan for 2019-2020 from Fisheries Directorate dated 26.02.2019 with reference number of 18/15753. Discharge permit Fylkesmannen i Nordland dt 21.05.2019, MTB 2340 tonns valid until 31.12.2021. |   |  |
|-----------------------------|--|---|--|---|--|
| 1.1.4                       | compliance with regulations and permits concerning water quality impacts  Requirement: Yes | b. Compile list of and comply with all discharge laws or regulations.                             | B) As described in above permits.  MOM-B according to Norwegian legislation and NS9410 dt. performed by Akvaplan Niva, an accredited company   | harge permit Fylkesmannen i Nordland dt 21.05.2019, 21.  slation and NS9410 dt. performed by Akvaplan Niva, an Compliant  un end of month. Compliance and updates assured rvåking av havbunn og omkringliggende miljø |  |
| Requirement: Applicability: |  | c. Maintain records of monitoring and compliance with discharge laws and regulations as required. | C) MTB reported to auhtorities/ Altinn end of month. Compliance and updates assured according to "Prosedyre for miljøovervåking av havbunn og omkringliggende miljø matfiskanlegg" ID 332, dt. 05.02.18.               |   |  |
|                             |  | PRINCIPLE 2: CONSERVE NATURAL HABITAT, LOCAL BIO  | DIVERSITY AND ECOSYSTEM FUNCTION   |   |  |
|                             |  | Criterion 2.1 Benthic biodiversity and  | benthic effects [1]  |   |  |

Footnote [1] Closed production systems that can demonstrate that they collect and responsibly dispose of > 75% of solid nutrients from the production system are exempt from standards under Criterion 2.1. See Appendix VI for requirements on transparency for 2.1.1, 2.1.2 and 2.1.3.

#### Instruction to Clients and CABs on Criterion 2.1 - Modification of the Benthic Sampling Methodology

For farms located in a jurisdiction where specific benthic sampling locations are required under law, clients may request to modify the benthic sampling methodology prescribed in Appendix I-1 to allow for sampling at different locations and/or changes in the total number of samples. Where modifications are sought, farms shall provide a full justification to the CAB for review. Requests for modification shall be supported by mapping of differences in sampling locations. In any event, the sampling locations must at a minimum include samples from the cage edge and samples taken from inside and outside of a defined AZE.

CABs shall evaluate client requests to modify benthic methodology based on whether there is a risk that such changes would jeopardize the intent and rigor of the ASC Salmon Standard. If the CAB determines that proposed modifications are low risk, the CAB shall ensure that details of the modified benthic sampling methodology are fully described and justified in the audit report.

|          |   | Note: Under Indicator 2.1.1, farms can choose to measure redox potential (Option #1) or sulp threshold values.   | hide concentration (Option #2). Farms do not have to demonstrate that they meet both   |   |                           |      |  |
|----------|---|--|--|---|---------------------------|------|--|
| 1        |   |  | a. Prepare a map of the farm showing boundary of AZE (30 m) and GPS locations of all sediment collections stations. If the farm uses a site-specific AZE, provide justification [3] to the CAB.  | A) Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime                                   |                           |      |  |
|          | Indicator: Redox potential or [2] sulphide levels in  | bill benefits throughout the fail files is hard bottom, provide evidence to the existing   | (MOM-B - ASC adapted) Modified MOM-B according to NS 9410:2016 (Norwegian authortites and legislation requirement) Point adapted to bathymetric conditions. Performed by Akvaplan Niva, report nr. APN-61153.01 dt 28.05.19. VanVeen grab used according to established method. Done at peak biomasse.  B) Hard bottom /Sediments  |   |                           |      |  |
|          | sediment outside of the Allowable Zone of Effect (AZE) [3], following the sampling methodology outlined in Appendix I-1 | c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard.                                 |  |   |                           |      |  |
|          | Requirement: Redox potential > 0 mV<br>or<br>Sulphide ≤ 1,500 μΜοΙ/L  |  | C) Option #1  D) Site-specific sampling regime (MOM-B - ASC adapted) Modified MOM-B according to NS 9410:2016 (Norwegian authortites and legislation requirement)  | Compliant   |                           |      |  |
|          | Applicability: All farms except as noted in [1]   | pplicability: All farms except as noted in [1]   | and a substantial to the substantial and the substantial to the substa | E) Redox Eh values ranging from 67-260 mV<br>MOM-B as per national regulations (NS 9410:2016) ASC adapted (ISO 5667-19,). |                           |      |  |
|          |   | nationally or internationally recognized testing method.   | F) Redox potential.<br>National regulations (NS 9410)  |   |                           |      |  |
|          |   | g. Submit test results to ASC as per Appendix VI at least once for each production cycle. If site has hard bottom and cannot complete tests, report this to ASC. | G) Submitted to ASC in email dt.29-11-2019   |   |                           |      |  |
| Footnote |   | [2] Farm sites can choose whether to use redox or sulphide. F  | arms do not have to demonstrate that they meet both.   |   |                           |      |  |
| Footnote | [3] Allowable Zone of Effect (AZE) is defined under   | this standard as 30 meters. For farm sites where a site-specific AZE has been defined using a re   | obust and credible modeling system such as the SEPA AUTODEPOMOD and verified through mo  | nitoring, the site  | e-specific AZE shall be u | sed. |  |

| 2.1.2    | Indicator: Faunal index score indicating good [4] to high ecological quality in sediment outside the AZE, following the sampling methodology outlined in Appendix I-1  Requirement: AZTI Marine Biotic Index (AMBI [5]) score ≤ 3.3, or  Shannon-Wiener Index score > 3, or  Benthic Quality Index (BQI) score ≥ 15, or  Infaunal Trophic Index (ITI) score ≥ 25  Applicability: All farms except as noted in [1] | Notes:  - Under Indicator 2.1.2, farms can choose one of four measurements to show compliance with (Option #3); or ITI (Option #4). Farms do not have to demonstrate that they meet all four thre - If a farm is exempt due to hard bottom benthos (see 2.1.1b), then 2.1.2 does not apply and to a. Prepare a map showing the AZE (30 m or site specific) and sediment collections stations (see 2.1.1).  b. Inform the CAB whether the farm chose option #1, #2, #3, or #4 to demonstrate compliance with the requirement.  c. Collect sediment samples in accordance with Appendix I-1 (see 2.1.1).  d. For option #1, measure, calculate and record AZTI Marine Biotic Index [5] score of sediment samples using the required method.  e. For option #2, measure, calculate and record Shannon-Wiener Index score of sediment samples using the required method.  f. For option #3, measure, calculate and record Benthic Quality Index (BQI) score of sediment samples using the required method.  g. For option #4, measure, calculate and record Infaunal Trophic Index (ITI) score of sediment samples using the required method.  h. Retain documentary evidence to show how scores were obtained. If samples were analyzed and index calculated by an independent laboratory, obtain copies of results. | A) Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime (MOM-C hybrid - ASC adapted) Modified MOM-C according to NS9410 (Norwegian authortites and legislation requirement) Point adapted to bathymetric conditions. Performed by Akvaplan Niva, report nr. 61151.01 reporting dt 05.07.2019 b) Opt #2 Shannon Wierner used. c) Van Veen grab used according to site specific MOM-C (NS9410) Done at peak biomasse d) Opt #2 Shannon Wierner used. e) Shannon Wierner ranging from 3.08-4.35 f) Opt #2 Shannon Wierner used. g) Opt #2 Shannon Wierner used.        | Compliant      |          |  |
|----------|---|---|---|----------------|----------|--|
| Footnote | [4] "Good" Ecological Quality Cl  | assification: The level of diversity and abundance of invertebrate taxa is slightly outside the ran   | ge associated with the type-specific conditions. Most of the sensitive taxa of the type-specific c  | ommunities are | present. |  |
| Footnote |   | [5] http://www.azti.es/en/ambi-az   | ti-marine-biotic-index.html.  |                |          |  |
| 2.1.3    | Indicator: Number of macrofaunal taxa in the sediment within the AZE, following the sampling methodology outlined in Appendix I-1  Requirement: ≥ 2 highly abundant [6] taxa that are not pollution indicator species  Applicability: All farms except as noted in [1]  | a. Document appropriate sediment sample collection as for 2.1.1a and 2.1.1c, or exemption as per 2.1.1b.  b. For sediment samples taken within the AZE, determine abundance and taxonomic composition of macrofauna using an appropriate testing method.  c. Identify all highly abundant taxa [6] and specify which ones (if any) are pollution indicator species.  d. Retain documentary evidence to show how taxa were identified and how counts were obtained. If samples were analyzed by an independent lab, obtain copies of results.  e. Submit counts of macrofaunal taxa to ASC (Appendix VI) at least once for each production cycle.  | Ta-b) Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime (MOM-C hybrid - ASC adapted) Modified MOM-C according to NS9410 (Norwegian authortites and legislation requirement) Point adapted to bathymetric conditions. Performed by Akvaplan Niva, report nr. 61151.01 reporting dt 05.07.2019  c) 3 highly abundant non-pollution taxa whitin AZE  d) MOM-B/C as per national regulations (NS 9410) ASC adapted (ISO 16665 on faunal). Independent laboratory performed the sampling and calculation of faunal index.  e) Submitted to ASC in email dt.29-11-2019 | Compliant      |          |  |

|          | 1   |  | <u></u>  |           |   |  |  |
|----------|---|--|--|-----------|---|--|--|
|          | Indicator: Definition of a site-specific AZE based on a   | a. Undertake an analysis to determine the site-specific AZE and depositional pattern.  |  |           |   |  |  |
| 2.1.4    | Requirement: Yes  Applicability: All farms except as noted in [1]   | b. Maintain records to show how the analysis (in 2.1.4a) is robust and credible based on modeling using a multi-parameter approach [7].  | a-c) Site-specific sampling regime (MOM-C hybrid - ASC adapted/NS9410. Modified MOM-C according to NS9410 (Norwegian authortites and legislation requirement) survey developed and performed by Akvaplan Niva.   | Compliant |   |  |  |
|          |   | c. Maintain records to show that modeling results for the site-specific AZE have been verified with > 6 months of monitoring data.   |  |           |   |  |  |
| Footnote | [7] Robust and credible: The SEPA AUTODI  | e AZE proposed   | through the model.   |           |   |  |  |
|          |   | Criterion 2.2 Water quality in and near th   |  |           |   |  |  |
|          | T   | Compliance Criteria (Required Client Actions):   | Auditor Evaluation (Required CAB Actions):   |           |   |  |  |
| Footnote |   | [8] See Appendix VI for transparency require   | ements for 2.2.1, 2.2.2, 2.2.3 and 2.2.5.  |           | 1 |  |  |
| 2.2.1    | Indicator: Weekly average percent saturation [9] of dissolved oxygen (DO) [10] on farm, calculated following methodology in Appendix I-4  Requirement: ≥ 70% [11] | Instruction to Clients for Indicator 2.2.1 - Monitoring Average Weekly Percent Saturation of Appendix I-4 presents the required methodology that farms must follow for sampling the ave follows:  - measurements may be taken with a handheld oxygen meter or equivalent chemical method equipment is calibrated according to manufacturer's recommendations;  - measurements are taken at least twice daily: once in the morning (6 -9 am) and once in the salinity and temperature must also be measured when DO is sampled;  - sampling should be done at 5 meters depth in water conditions that would be experienced be each week, all DO measurements are used in the calculation of a weekly average percent sall film monitoring deviates from prescribed sampling methodology, the farm shall provide the audiand well-justified situations, farms may request that the CAB approve reduction of DO monitor in the sampling methodology in the farm shall provide the audiand well-justified situations, farms may request that the CAB approve reduction of DO monitor in the sampling methodology in the farm shall provide the audiand well-justified situations, farms may request that the CAB approve reduction of DO monitor in the sampling methodology in the sampling methodology. The farm shall provide the audiand well-justified situations, farms may request that the CAB approve reduction of DO monitor in the sampling methodology. The farm shall provide the audiand well-justified situations, farms may request that the CAB approve reduction of DO monitor in the sampling methodology. The farm shall provide the audiand well-justified situations are sampled to the sampling methodology. The farm shall provide the audiand well-justified situations are sampled to the sampling methodology. The farm shall provide the audiand well-justified situation in the audiand well- | rage weekly percent saturation of dissolved oxygen (DO). Key points of the method are as ;  afternoon (3-6 pm ) as appropriate for the location and season;  by fish (e.g. at the downstream edge of a net pen array): turation.  ditor with a written justification (e.g. when samples are missed due to bad weather). In limited bring frequency to one sample per day.  saturation requirement, the farm must demonstrate the consistency of percent saturation pen array, in a location that is understood to follow similar patterns in upwelling to the farm et agricultural runoff or nutrient releases from coastal communities. For any such exceptions, now with the reference site. |           |   |  |  |
|          | Applicability: All farms except as noted in [11]  | a. Monitor and record on-farm percent saturation of DO at a minimum of twice daily using a calibrated oxygen meter or equivalent method. For first audits, farm records must cover ≥ 6 months.   | a) Continuos logging (AKVA log) of oxygen and temperature at 3 sampling stations at cages (additional reference station at barge).   |           |   |  |  |
|          |   | b. Provide a written justification for any missed samples or deviations in sampling time.  | b) No missed data  |           |   |  |  |
|          |   | c. Calculate weekly average percent saturation based on data.  | c) Seen record for the period week 34 in 2018-48 in 2019 for the current generation Percent = $\geq$ 70 %  | Compliant |   |  |  |
|          |   | d. If any weekly average DO values are < 70%, or approaching that level, monitor and record DO at a reference site and compare to on-farm levels (see Instructions).   | d) No measurements below 70 % dissolved oxygen has been registered/observed. e) Monitoring of oxygen and calibration routines verified on site. Good knowledge, instructions from equipment producer available.  | compliant |   |  |  |
|          |   | e. Arrange for auditor to witness DO monitoring and calibration while on site.   | f) Submitted to ASC in email dt.29-11-2019   |           |   |  |  |
|          |   | f. Submit results from monitoring of average weekly DO as per Appendix VI to ASC at least once per year.   |  |           |   |  |  |
| Footnote | [9] Pe  | ercent saturation: Percent saturation is the amount of oxygen dissolved in the water sample co   | mpared to the maximum amount that could be present at the same temperature and salinity.   |           |   |  |  |
| Footnote |   | [10] Averaged weekly from two daily measu  | rements (proposed at 6 am and 3 pm).   |           |   |  |  |
| Footnote |   | [11] An exception to this standard shall be made for farms that can dem  | onstrate consistency with a reference site in the same water body.   |           |   |  |  |
| , 001010 | [11] An exception to this standard shall be made for farms that can demonstrate consistency with a reference site in the same water body.                         |  |  |           |   |  |  |

|          | Indicator: Maximum percentage of weekly samples from 2.2.1 that fall under 2 mg/L DO  Requirement: 5%  Applicability: All  | a. Calculate the percentage of on-farm samples taken for 2.2.1a that fall under 2 mg/L DO.     b. Submit results from 2.2.2a as per Appendix VI to ASC at least once per year.                        | a) All above limits. b) Submitted to ASC in email dt.29-11-2019   | Compliant      |                  |  |
|----------|--|---|---|----------------|------------------|--|
| 2.2.3    | Indicator: For jurisdictions that have national or regional coastal water quality targets [12], demonstration through third-party analysis that the farm is in an area recently  | a. Inform the CAB whether relevant targets and classification systems are applicable in the jurisdiction. If applicable, proceed to "2.2.3.b". If not applicable, take action as required under 2.2.4 | a-c) EU Water Directive 2000 gives Water quality objectives for area Økssundet (ref.<br>"vannportalen.no). Noldland Fylkeskommune authority.<br>Hamarøy muncipility") ecological conditions good -chemical condition good |                |                  |  |
|          | [13] classified as having "good" or "very good" water quality [14]  Requirement: Yes [15]  | b. Compile a summary of relevant national or regional water quality targets and classifications, identifying the third-party responsible for the analysis and classification.                         |   | Compliant      |                  |  |
|          | Applicability: All farms except as noted in [15]   | c. Identify the most recent classification of water quality for the area in which the farm operates.  |   |                |                  |  |
| Footnote |  | [12] Related to nutrients (e.   | g., N, P, chlorophyll A).   |                |                  |  |
| Footnote |  | [13] Within the two year  | s prior to the audit.   |                |                  |  |
| Footnote | [14] Clas  | sifications of "good" and "very good" are used in the EU Water Framework Directive. Equivale  | nt classification from other water quality monitoring systems in other jurisdictions are acceptab   | le.            |                  |  |
| Footnote | [15] Closed production systems that ca   | n demonstrate the collection and responsible disposal of > 75% of solid nutrients as well as > 5  | 30% of dissolved nutrients (through biofiltration, settling and/or other technologies) are exempted.  | from standards | 2.2.3 and 2.2.4. |  |
| 2.2.4    | Indicator: For jurisdictions without national or regional coastal water quality targets, evidence of monitoring of nitrogen and phosphorous [16] levels on farm and at a reference site, following methodology in Appendix I-5 | a. Develop, implement, and document a weekly monitoring plan for N, NH4, NO3, total P, and ortho-P in compliance with Appendix I-5. For first audits, farm records must cover ≥ 6 months.             | a-c) EU Water Directive 2000 gives Water quality objectives for area Økssundet (ref. "vannportalen.no). Noldland Fylkeskommune authority. Hamarøy muncipility") ecological conditions good -chemical condition good       |                |                  |  |
|          | Requirement: Consistency with reference site   | b. Calibrate all equipment according to the manufacturer's recommendations.   |   | Compliant      |                  |  |
|          | Applicability: All farms except as noted in [16]   | c. Submit data on N and P to ASC as per Appendix VI at least once per year.   |   |                |                  |  |
| Footnote |  | [16] Farms shall monitor total N, NH4, NO3, total P and Ortho-P in the water column. Resul  | to shall be a librarited to the ACC detabase Matheda and as a Useh literare accordable  |                |                  |  |

| 2.2.5    | Indicator: Demonstration of calculation of biochemical oxygen demand (BOD [17]) of the farm on a production cycle basis  Requirement: Yes   | Aquaculture Society Meeting; Sept 25-29, 2009; VeraCruz, Mexico. And: Global Aquaculture Fgapi/bod.html.  Note 1: Calculation requires a full production cycle of data and is required beginning with the required to demonstrate to the CAB that data is being collected and an understanding of the | h as IMTA or through direct collection of nutrient wasted. In this equation, "fish" refers to d to ASC along with method used to estimate nutrient reduction. quirement in shrimp ponds from the oxygen demand of feed. In: Proceedings of the World Performance Index BOD calculation methodology available at http://web.uvic.ca/~gapi/explore-production cycle first undergoing certification. If it is the first audit for the farm, the client is calculations. |           |   |                                    |
|----------|---|---|--|-----------|---|------------------------------------|
|          | Applicability: All  | a. Collect data throughout the course of the production cycle and calculate BOD according to formula in the instruction box.  | Total amount of feed for production cycle [mt]: 1011.45 Total C in feed for production cycle [mt]: 641.81 Total N in feed for production cycle [mt]: 61.70   | Compliant |   |                                    |
|          |   | b. Submit calculated BOD as per Appendix VI to ASC for each production cycle.   | Total C in fish (species specific) [mt]: 595.37 Total N in fish (species specific) [mt]: 35.72 BOD [mT O2]: 242.70 b) Submitted to ASC in email dt.29-11-2019  |           |   |                                    |
| Footnote | [17] BOD calculated as: ((total N in feed – total N in fish)*4.57) + ((total C in feed – total C in fish)*2.67). A farm may deduct N or C that is captured, filtered or absorbed through approaches such as IMTA or through direct collection of nutrient was           |   |  |           |   |                                    |
| 2.2.6    | Indicator: Appropriate controls are in place that maintain good culture and hygienic conditions on the farm which extends to all chemicals, including veterinary drugs, thereby ensuring that adverse impacts on environmental quality are minimised.  Requirement: Yes | a. Document control systems in good culture and hygene that includes all appropriate elements.  b. Apply the systems ensuring that staff are aware, qualified and trained to proberly implement them.   | a) Procedure "Hygienereglement - Matfisk" ID 127, dt. 06.12.2017     Prosedure "Prosedyre for oppbevaring håndtering av kjemikalier og gasser", ID 473, howevere, the storage for chemicals was missing collection for chemicals and several paint cans was placed outside. The storage for formic acid was not locked.      b) Verified during audit  | Minor     | The storage for<br>chemicals was<br>missing collection for<br>chemicals nad and<br>several paint cans<br>was placed outside.<br>The storage for | On-site<br>visit on 10-<br>12-2019 |
|          | Applicability: All  |   |  |           | formic acid was not locked.   |                                    |

|          |  | Criterion 2.3 Nutrient release fro  | m production   |                  |                                   |  |  |
|----------|--|---|--|------------------|-----------------------------------|--|--|
|          |  | Compliance Criteria (Required Client Actions):  | Auditor Evaluation (Required CAB Actions):   |                  |                                   |  |  |
|          |  | Note: The methodology given in Appendix I-2 is used to dete   | rmine the fines (dust and small fragments) in finished product of fish feed which has a diamete  | r of 3 mm or mo  | re.                               |  |  |
|          | Indicator: Percentage of fines [18] in the feed at point of entry to the farm [20] (calculated following methodology in Appendix I-2)  | a. Determine and document a schedule and location for quarterly testing of feed. If testing prior to delivery to farm site, document rationale behind not testing on site.                                    | ,  |                  |                                   |  |  |
| 2.3.1    | Requirement: < 1% by weight of the feed  | b. If using a sieving machine, calibrate equipment according to manufacturer's recommendations.   |  | Compliant        |                                   |  |  |
|          | Applicability: All farms except as noted in [19]   | c. Conduct test according to detailed methodology in Appendix I-2 and record results for the pooled sample for each quarter. For first audits, farms must have test results from the last 3 months.           |  |                  |                                   |  |  |
| Footnote | [18] Fines: Dust and fragments in the feed. Particles that separate from feed with a diameter of 5 mm or less when sieved through a 1 mm sieve, or particles that separate from feed with a diameter greater than 5 mm when sieved through a 2.36 mm sieve. To be measured at farm gate (e.g., from feed bags after they are delivered to farm). |   |  |                  |                                   |  |  |
| Footnote | [19] To be measured every quarter or every three month   | s. Samples that are measured shall be chosen randomly. Feed may be sampled immediately p<br>the collection and responsible disposal of > 75% of solid nutrients and > 50% of dissolve                         | rior to delivery to farm for sites with no feed storage where it is not possible to sample on farm of nutrients (through biofiltration, settling and/or other technologies) are exempt.  | . Closed product | ion systems that can demonstrat   |  |  |
|          |  | Criterion 2.4 Interaction with critical or sens   | itive habitats and species   |                  |                                   |  |  |
|          |  | Compliance Criteria (Required Client Actions):  | Auditor Evaluation (Required CAB Actions):   |                  |                                   |  |  |
|          |  |   | (e.g. as part of the regulatory permitting process), the farm may use such documents as evideng as all components in Appendix I-3 are explicitly covered.  | ice to demonstra | ate compliance with Indicator 2.4 |  |  |
| 2.4.1    | Indicator: Evidence of an assessment of the farm's potential impacts on biodiversity and nearby ecosystems that contains at a minimum the components outlined in Appendix I-3  | a. Perform (or contract to have performed) a documented assessment of the farm's potential impact on biodiversity and nearby ecosystems. The assessment must address all components outlined in Appendix I-3. |  |                  |                                   |  |  |
| 22       | Requirement: Yes  Applicability: All   | b. If the assessment (2.4.1a) identifies potential impact(s) of the farm on biodiversity or nearby critical, sensitive or protected habitats or species, prepare plan to address those potential impacts.     | Marginal impacts only. Ref also license permit and assessment as part of the regulatory permitting process.  Site has risk assessment for environmental impact with developed actions for potential environmental and biodiversity risks from site. Additional RA "Biodiversitetsfokusert risikovurdering for Vargsundet og Korsfjorden", dated 30.07.2019 including action plan for | Compliant        |                                   |  |  |
|          |  | c. Keep records to show how the farm implements plan(s) from 2.4.1b to minimize potential impacts to critical or sensitive habitats and species.  | environement (for all). Also MOM-B and MOM-C according to requirements in national legislation. Risk assessment for Storholmen/Olderfjord "Ytre miljø- utlsipp", dt. 15.04.2018  |                  |                                   |  |  |

| 2.4.2    | Indicator: Allowance for the farm to be sited in a protected area [20] or High Conservation Value Areas [21] (HCVAs)  2.4.2  Requirement: None [22]  Applicability: All farms except as noted in [22]   | Instruction to Clients for Indicator 2.4.2 - Exceptions to Requirements that Farms are not sit. The following exceptions shall be made for Indicator 2.4.2:  Exception #1: For protected areas classified by the International Union for the Conservation of or for sustainable resource management).  Exception #2: For HCVAs if the farm can demonstrate that its environmental impacts are combe placed on the farm to demonstrate that it is not negatively impacting the core reason an a Exception #3: For farms located in a protected area if it was designated as such after the farm impacts are compatible with the conservation objectives of the protected area and it is in conformation/designation of the protected area. The burden of proof would be placed on the far protected.  Definitions  Protected area: "A clearly defined geographical space, recognized, dedicated and managed the associated ecosystem services and cultural values."  High Conservation Value Areas (HCVA): Natural habitats where conservation values are consimulti-stakeholder approach that provides a systematic basis for identifying critical conservation values are maintained or enhanced   | of Nature (IUCN) as Category V or VI (these are areas preserved primarily for their landscapes patible with the conservation objectives of the HCVA designation. The burden of proof would rea has been identified as a HCVA.  It was already in operation and provided the farm can demonstrate that its environmental appliance with any relevant conditions or regulations placed on the farm as a result of the m to demonstrate that it is not negatively impacting the core reason an area has been arough legal or other effective means, to achieve the long-term conservation of nature with |                  |                           |           |  |  |
|----------|---|---|---|------------------|---------------------------|-----------|--|--|
|          |   | a. Provide a map showing the location of the farm relative to nearby protected areas or High Conservation Value Areas (HCVAs) as defined above (see also 1.1.1a).  b. If the farm is <u>not</u> sited in a protected area or High Conservation Value Area as defined above, prepare a declaration attesting to this fact. In this case, the requirements of 2.4.2c-d do not apply.  | a) Fiskeridirektoratet.no map and DN Naturbase map with all known protected areas defined site is not in conflict with protected areas - HCVAs or CAs. Also considered in Impacts consequence assement performed according to Appendix I-3.  Naturebase.no confrims that the sites are not located in a protected area.  b) Statement Cermaq Norway AS Biodiversity RA above dt 01.08.16, that sites are not operating in HCVAs. Cermaq Group AS annual corporate level environmental and   |                  |                           |           |  |  |
|          |   | c. If the farm <u>is</u> sited in a protected area or HCVA, review the scope of applicability of Indicator 2.4.2 (see Instructions above) to determine if your farm is allowed an exception to the requirements. If yes, inform the CAB which exception (#1, #2, or #3) is allowed and provide supporting evidence.   |   | Compliant        |                           |           |  |  |
|          |   | d. If the farm is sited in a protected area or HCVA and the exceptions provided for Indicator 2.4.2 do not apply, then the farm does not comply with the requirement and is ineligible for ASC certification.   | d) Not within HCVA  |                  |                           |           |  |  |
| Footnote | [20] Protected area: "A clearly defined geographical  | space, recognized, dedicated and managed through legal or other effective means, to achieve th<br>Applying Protected Area Management Catego   |   | ource: Dudley, N | . (Editor) (2008), Guide  | lines for |  |  |
| Footnote |   | l habitats where conservation values are considered to be of outstanding significance or critical —both social and environmental—and for planning ecosystem management in order to ensure   |   |                  | entifying critical conser | vation    |  |  |
| Footnote | For HCVAs if the farm can demonstrate that its enviro     For farms located in a protected area if it was designated in the second | values—both social and environmental—and for planning ecosystem management in order to ensure that these high conservation values are maintained or enhanced (http://www.hcvnetwork.org/).  [22] The following exceptions shall be made for Standard 2.4.2:  • For protected areas classified by the International Union for the Conservation of Nature (IUCN) as Category V or VI (these area spreserved primarily for their landscapes or for sustainable resource management).  • For HCVAs if the farm can demonstrate that its environmental impacts are compatible with the conservation objectives of the HCVA designation. The burden of proof would be placed on the farm to demonstrate that it is not negatively impacting the core reason an area has been identified as a HCVA.  • For farms located in a protected area if it was designated as such after the farm was already in operation and provided the farm can demonstrate that its environmental impacts are compatible with the conservation objectives of the protected area and it is in compliance with any relevant conditions or regulations placed on the farm as a result of the formation/designation of the protected area. The burden of proof would be placed on the farm to demonstrate that it is not negatively impacting the core reason an area has been protected. |   |                  |                           |           |  |  |

|          |   | Criterion 2.5 Interaction with wildlife, inc   | cluding predators [23]   |           |  |  |
|----------|---|--|--|-----------|--|--|
|          |   | Compliance Criteria (Required Client Actions):   | Auditor Evaluation (Required CAB Actions):   |           |  |  |
| Footnote |   | [23] See Appendix VI for transparency rec  | uirements for 2.5.2, 2.5.5 and 2.5.6.  |           |  |  |
| 2.5.1    | Indicator: Number of days in the production cycle when acoustic deterrent devices (ADDs) or acoustic harassment devices (AHDs) were used  Requirement: 0  | a. Compile documentary evidence to show that no ADDs or AHDs have been used by the farm.   | No use of ADDs or AHDs.  | Compliant |  |  |
|          | Applicability: All  | -  |  |           |  |  |
|          |   | a. Prepare a list of all predator control devices and their locations.   | a) Nest on the cages are only devices used by the farm to control birds.   |           |  |  |
|          | Indicator: Number of mortalities [25] of endangered or red-listed [26] marine mammals or birds on the farm  | b. Maintain a record of all predator incidents.  | b) The predators incidents are recorded by the farm empolyess.   |           |  |  |
| 252      | Requirement: 0 (zero)   | c. Maintain a record of all mortalities of marine mammals and birds on the farm identifying the species, date, and apparent cause of death.  | c) No mortality of endangered or red-listed marine mammals and birds in the farm. Internal records checked.  | Compliant |  |  |
|          | Applicability: All  | d. Maintain an up-to-date list of endangered or red-listed marine mammals and birds in the area (see 2.4.1)  | d) Red list of endangered or red-listed marine mammals and birds in the area from "Norsk<br>Rødliste for arter-2018" - fra Artsdatabanken". The species in the Red List are assigned to one<br>of six categories, ranked by their risk of extinction |           |  |  |
|          |   |  |  |           |  |  |
| Footnote |   | [25] Mortalities: Includes animals intentionally killed through lethal action  |  |           |  |  |
| Footnote |   | [26] Species listed as endangered or critically endangered   | by the IUCN or on a national endangered species list.  |           |  |  |
|          | Indicator: Evidence that the following steps were taken prior to lethal action [27] against a predator:  1. All other avenues were pursued prior to using lethal  | a. Provide a list of all lethal actions that the farm took against predators during the previous 12-month period. Note: "lethal action" is an action taken to deliberately kill an animal, including marine mammals and birds.   |  |           |  |  |
| 2.5.3    | action  2. Approval was given from a senior manager above the farm manager  3. Explicit permission was granted to take lethal action against the specific animal from the relevant regulatory authority                               | b. For each lethal action identified in 2.5.4a, keep record of the following:  1) a rationale showing how the farm pursued all other reasonable avenues prior to using lethal action;  2) approval from a senior manager above the farm manager of the lethal action;  3) where applicable, explicit permission was granted by the relevant regulatory authority to take lethal action against the animal. | a) No lethal actions taken at farm. Internal records checked. There is a procedure "Prosedyre for samspill med dyr og fugler 395" in place.  b, c) NA  | Compliant |  |  |
|          | Requirement: Yes [28]  Applicability: All except cases where human safety is endangered as noted in [28]  | c. Provide documentary evidence that steps 1-3 above (in 2.5.4b) were taken prior to killing the animal. If human safety was endangered and urgent action necessary, provide documentary evidence as outlined in [28].   |  |           |  |  |
| Footnote |   | [27] Lethal action: Action taken to deliberately kill a  | n animal, including marine mammals and birds.  |           |  |  |
| Footnote | [28] Exception to these conditions may be made for a rare situation where human safety is endangered. Should this be required, post-incident approval from a senior manager should be made and relevant authorities must be informed. |  |  |           |  |  |

#### Instruction to Clients and CABs on Indicators 2.5.4, 2.5.5, and 2.5.6 - Clarification about the ASC Definition of "Lethal Incident"

The ASC Salmon Standard has defined "Lethal incident" to include all lethal actions as well as entanglements or other accidental mortalities of non-salmonids [footnote 29]. For the purpose of assisting farms and auditors with understanding how to evaluate compliance with Indicators 2.5.4, 2.5.5, and 2.5.6, ASC has clarified this definition further:

Total number of lethal Incidents = sum of all non-salmonid deaths arising from all lethal actions taken by the farm during a given time period

There should be a 1:1 relationship between the number of animal deaths and the number of lethal incidents reported by the farm. For example, if a farm has taken one (1) lethal action in past last two years and that single lethal action resulted in killing three (3) birds, it is considered three (3) lethal incidents within a two year period.

The term "non-salmonid" was intended to cover any predatory animals which are likely to try to feed upon farmed salmon. In practice these animals will usually be seals or birds.

|          | Indicator: Evidence that information about any lethal incidents [30] on the farm has been made easily publicly available [29]   | a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence.   |   |           |  |  |  |
|----------|---|--|---|-----------|--|--|--|
|          |   | a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence.   | a, b, c) System implemented to make information easily publicly available if any lethal incidents occur on birds or marine mammals at the certified site.  List on https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq-norway/baerekraft/asc-rapportering/; showing no lethal incidents | Compliant |  |  |  |
|          | Applicability: All  | b. Ensure that information about all lethal actions listed in 2.5.4a are made easily publicly available (e.g. on a website).   |   |           |  |  |  |
| Footnote | ote [29] Posting results on a public website is an example of "easily publicly available." Shall be made available within 30 days of the incident and see Appendix VI for transparency requirements.                          |  |   |           |  |  |  |
|          | Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years  Requirement: < 9 lethal incidents [31], with no more   | a. Maintain log of lethal incidents (see 2.5.3a) for a minimum of two years. For first audit, $>$ 6 months of data are required.   | a, b) No lethal actions taken at farm. Internal records checked. There is a procedure "Prosedyre for samspill med dyr og fugler with ID 395" in place. List on https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq-norway/baerekraft/asc- rapportering/; showing no lethal incidents    |           |  |  |  |
|          |   | b. Calculate the total number of lethal incidents and the number of incidents involving marine mammals during the previous two year period.  |   | Compliant |  |  |  |
|          | than two of the incidents being marine mammals  Applicability: All  | c. Send ASC the farm's data for all lethal incidents [30] of any species other than the salmon being farmed (e.g. lethal incidents involving predators such as birds or marine mammals). Data must be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle). | c) Submitted to ASC in email dt.08.08.2019  |           |  |  |  |
| Footnote |   | [30] Lethal incident: Includes all lethal actions as well as entang  | elements or other accidental mortalities of non-salmonids.  |           |  |  |  |
| Footnote |   | [31] Standard 2.5.6 applicable to incidents related to non-endangered and non-re-  | d-listed species. This standard complements, and does not contradict, 2.5.3.  |           |  |  |  |
|          | Indicator: In the event of a lethal incident, evidence that an assessment of the risk of lethal incident(s) has been undertaken and demonstration of concrete steps taken by the farm to reduce the risk of future incidences | a. Keep records showing that the farm undertakes an assessment of risk following each lethal incident and how those risk assessments are used to identify concrete steps the farm takes to reduce the risk of future incidents.  | a) No lethal incident. There is a risk assessment "Ytre miljø- utlsipp", dt. 15.04.2018   | Compliant |  |  |  |
|          | Requirement: Yes  Applicability: All  | b. Provide documentary evidence that the farm implements those steps identified in 2.5.6a to reduce the risk of future lethal incidents.   | b) NA   |           |  |  |  |

|  | PRINCIPLE 3: PROTECT THE HEALTH AND GENETIC INTEGRITY OF WILD POPULATIONS  Criterion 3.1 Introduced or amplified parasites and pathogens [34, 35]  |   |   |           |  |  |  |  |
|--|--|---|---|-----------|--|--|--|--|
|  |  | Compliance Criteria (Required Client Actions):  | Auditor Evaluation (Required CAB Actions):  |           |  |  |  |  |
| Footnote   | [3   | 2] Farm sites for which there is no release of water that may contain pathogens into the natur  | ral (freshwater or marine) environment are exempt from the standards under Criterion 3.1.   |           |  |  |  |  |
| Footnote   |  | [33] See Appendix VI for transparency requirem  | nents for 3.1.1, 3.1.3, 3.1.4, 3.1.6 and 3.1.7.   |           |  |  |  |  |
| Instruction to Clients and CABs on Exemptions to Criterion 3.1  According to footnote [32], farm sites for which there is no release of water that may contain pathogens into the natural (freshwater or marine) environment are exempt from the requirements under Criterion 3.1. More specifically, farms are only eligible for exemption from Criterion 3.1 if it can be shown that either of the following holds:  1) the farm does not release any water to the natural environment; or  2) any effluent released by the farm to the natural environment has been effectively treated to kill pathogens (e.g. UV and/or chemical treatment of water with testing demonstrating efficacy).  Auditors shall fully document the rationale for any such exemptions in the audit report. |  |   |   |           |  |  |  |  |
| 3.1.1  | Indicator: Participation in an Area-Based Management (ABM) scheme for managing disease and resistance to creatments that includes coordination of stocking, fallowing, therapeutic treatments and information- | a. Keep record of farm's participation in an ABM scheme.  b. Submit to the CAB a description of how the ABM (3.1.1a) coordinates management of disease and resistance to treatments, including: - coordination of stocking; - fallowing; - therapeutic treatments; and - information sharing. | a, b, c) ABM a requirement in national legislation. Records and overview over ABM and ref to "Samordnet plan for lusebekjempelse i subregion Nordland Nord" dt. 11-12-2019 in zones defined by NFSA and companys in ABM. ABM for zone 5 Hamarøy only Cermaq's sites located in the zone. Weekly updates to Altinn, where info is available for all farms in zone. Also regular meetings between participants where ABM issues are discussed 100% of farms included. | Compliant |  |  |  |  |
|  | Requirement: Yes  Applicability: All except farms that release no water as noted in [32]   | c. Provide the CAB access to documentation which is sufficient for the auditor to evaluate the ABM's compliance with all requirements in Appendix II-1, including definition of area, minimum % participation in the scheme, components, and coordination requirements.                       | Routines and procedures for notification included in ABM related to treatments and diseases according to legislation from NFSA.  d) Submitted to ASC in email dt.29-11-2019   |           |  |  |  |  |
|  |  | d. Submit dates of fallowing period(s) as per Appendix VI to ASC at least once per year.  |   |           |  |  |  |  |

|          |   | Note: Indicator 3.1.2 requires that farms demonstrate a commitment to collaborate with NGOs, academics and governments on areas of mutually agreed research to measure possible impacts on wild stocks. If the farm does not receive any requests to collaborate on such research projects, the farm may demonstrate compliance by showing evidence of commitment through other proactive means such as published policy statements or directed outreach to relevant organizations. |   |                  |                 |  |
|----------|---|---|---|------------------|-----------------|--|
|          |   | a. Retain records to show how the farm and/or its operating company has communicated with external groups (NGOs, academics, governments) to agree on and collaborate towards areas of research to measure impacts on wild stocks, including records of requests for research support and collaboration and responses to those requests.   | a) Commitment and participation of Cermaq Norway AS is documented n several projects with NGOs, academics and governments:  1. Varpa project - Ruseprosjektet 2016, with Norwegian Authorites, active 2018 (Nordland) GSI member, active 2018  ASRC project with Ewos Inovation, feed for arctic conditions, 4 R&D licences  "Skjellprøveprosjektet". Repafjordelva og Altaelva, active 2018, together with local stakeholders (Jeger og Fisk, ALI og VFJF)  Monitoringprogram with NINA, ALI and VFJF, active 2018  Kompetanseklynge laks (Knowledge-cluster Salmon), leading by a commites where Cermaq is included, active 2018. Including several subprojects, year to year perspective  HI, NINA and Hammerfest Kommune, kunstig rev/tareskog, creating a godd environment for cod stock (conditions for cod spawning in Hammerfest community), active 2018, description form 2016, project owner Hammerfest community, ongoing to 2020.  b) Some of the projects described in 3.1.2 includes non-financial support. |                  |                 |  |
| 3.1.2    | Indicator: A demonstrated commitment [34] to collaborate with NGOs, academics and governments on areas of mutually agreed research to measure possible impacts on wild stocks  Requirement: Yes | b. Provide non-financial support to research activities in 3.1.2a by either: - providing researchers with access to farm-level data; - granting researchers direct access to farm sites; or - facilitating research activities in some equivalent way.  |   |                  |                 |  |
|          | Applicability: All except farms that release no water as noted in [32]  | c. When the farm and/or its operating company denies a request to collaborate on a research project, ensure that there is a written justification for rejecting the proposal.   |   | Compliant        |                 |  |
|          |   | d. Maintain records from research collaborations (e.g. communications with researchers) to show that the farm has supported the research activities identified in 3.1.2a.   | C) Cermaq is part of a reasearch network called Kompetanse-Klynge Laks. Applications are recived and evaluated through the team of Kompetanse-Klynge Laks. No rejection without justification is made.      d) E.g.documents available in projectreport NINA nr. 1307 "Monitoring Altaelva og Repparfjordelva 2016". e.g. communication and electronic project folders e.g. projectmail for AquaDom to NOFIMA dt.11.11.14 and aggrements as described in 3.1.2.a  |                  |                 |  |
| Footnote | [34] Commitment: At a minimum, a  | farm and/or its operating company must demonstrate this commitment through providing farm   | m-level data to researchers, granting researchers access to sites, or other similar non-financial s   | upport for resea | rch activities. |  |
|          |   | a. Keep records to show that a maximum sea lice load has been set for: - the entire ABM; and - the individual farm.   | a) The maximum sea lice load for the entire ABM and the individual farm is: 0.5 mature sea lice per fish and 0.2 sea lice per fish in the sensitive smolt migration period according to norwegian regulation of FOR-2012-12-05-1140.  |                  |                 |  |
|          | Indicator: Establishment and annual review of a maximum sea lice load for the entire ABM and for the individual farm as outlined in Appendix II-2   | b. Maintain evidence that the established maximum sea lice load (3.1.3a) is reviewed annually as outlined in Appendix II-2, incorporating feedback from the monitoring of wild salmon where applicable (See 3.1.6).   | Also internal procedures in Intelex Quality System, system to prevent maximum sea lice load.<br>Procedure "Prosedyre for samordnet kontroll og bekjempelse av lakselus" ID 394, dated 04.04.17.  Procedure "Rapportering av Lakselus" ID 348, dated 19.06.16. Procedure "Prosdyre for luetelling" ID 321 dated 03.03.17 Registered on farm in FishTalk.   |                  |                 |  |
| 3.1.3    | Requirement: Yes  Applicability: All except farms that release no water as noted in [32]  | c. Provide the CAB access to documentation which is sufficient for the auditor to evaluate whether the ABM has set (3.1.3a) and annually reviewed (3.1.3.b) maximum sea lice load in compliance with requirements in Appendix II-2.   | b) Governmental researh institutes monitor sea lice load on wild salmon. Sea lice load are set by and controlled by the authorities through legal regulations and maximum levels are adapted to different geographical areas in Norway.  C) Results available at webpages "lusedata.no" and "barentswatch.no" with lice levels,   | Compliant        |                 |  |
|          |   | d. Submit the maximum sea lice load for the ABM to ASC as per Appendix VI at least once per year.   | treatment etc. published in this public website. The site manager reports to the authorities the lice number each week. Reports are reviewed  |                  |                 |  |

|          |   | a. Prepare an annual schedule for testing sea lice that identifies timeframes of routine testing frequency (at a minimum, monthly) and for high-frequency testing (weekly) due to sensitive periods for wild salmonids (e.g. during and immediately prior to outmigration of juveniles).  b. Maintain records of results of on-farm testing for sea lice. If farm deviates from schedule due to weather [35] maintain documentation of event and rationale.                    | a) There are legal limits for maximum sea lice load for the entire ABM and the individual farm. Maximum 0,5 mature female sea lice all year, except in sensitive period (week 21 to week 26) were the action limit is 0,2 mature female lice and moving lice based on the legal authorities regulations for lice control Procedure ""Prosedyre for samordnet kontroll og bekjempelse av lakselus" shows regularity of lice count, how to count and maximum sea lice load.  Sea lice counted weekly and recorded in FishTalk |                  |                             |              |
|----------|---|--|---|------------------|-----------------------------|--------------|
| 3.1.4    | Indicator: Frequent [35] on-farm testing for sea lice, with test results made easily publicly available [36] within seven days of testing  Requirement: Yes  Applicability: All except farms that release no water as noted in [32] | c. Document the methodology used for testing sea lice ('testing' includes both counting and identifying sea lice). The method must follow national or international norms, follows accepted minimum sample size, use random sampling, and record the species and life-stage of the sea lice. If farm uses a closed production system and would like to use an alternate method (i.e. video), farm shall provide the CAB with details on the method and efficacy of the method. | c) The method is ASC compliance.  d) Procedure "Prosedyre for samordnet kontroll og bekjempelse av lakselus" shows regularity of lice count, how to count and maximum sea lice load. Training in lice identification and counting, dated 14 03 2018   | Compliant        |                             |              |
|          |   | d. Make the testing results from 3.1.4b easily publicly available (e.g. posted to the company's website) within seven days of testing. If requested, provide stakeholders access to hardcopies of test results.      e. Keep records of when and where test results were made public.  |   |                  |                             |              |
|          |   | f. Submit test results to ASC (Appendix VI) at least once per year.  | f) Submitted to ASC in email dt.29-11-2019  |                  |                             |              |
| Footnote | [35] Testing must be weekly during and immediately prior  | to sensitive periods for wild salmonids, such as outmigration of wild juvenile salmon. Testing (below 4 degrees C). Within closed production systems, alternative meth   | must be at least monthly during the rest of the year, unless water temperature is so cold that it ods for monitoring sea lice, such as video monitoring, may be used.   | would jeopardize | e farmed fish health to tes | est for lice |
| Footnote |   | [36] Posting results on a public website is an   | example of "easily publicly available."   |                  |                             |              |

| 3.1.5    | Indicator: In areas with wild salmonids [37], evidence of data [38] and the farm's understanding of that data, around salmonid migration routes, migration timing and stock productivity in major waterways within 50 kilometers of the farm  Requirement: Yes  Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in [32] | Instruction to Clients for Indicator 3.1.5 - Evidence for Wild Salmonid Health and Migration In writing this indicator, the SAD Steering Committee concluded that relevant data sets on wild salmonid health and migration are publicly available in the vast majority of, if not all, jurisdictions with wild salmonids. The information is likely to come from government sources or from research institutions. Therefore farms are not responsible for conducting this research themselves. However farms must demonstrate that they are aware of this basic information in their region, as such information is needed to make management decisions related to minimizing potential impact on those wild stocks.  This Indicator requires collection and understanding of general data for the major watersheds within approximately 50 km of the farm. A farm does not need to demonstrate that there is data for every small river or tributary or subpopulation. Information should relate to the wild fish stock level, which implies that the population is more or less isolated from other stocks of the same species and hence self-sustaining. A "conservation unit" under the Canadian Wild Salmon Policy is an example of an appropriate fish stock-level definition. However, it must be recognized that each jurisdiction may have slight differences in how a wild salmonid stock is defined in the region.  For purposes of these standards, "areas with wild salmonids" are defined as areas within 75 kilometers of a wild salmonid migration route or habitat. This definition is expected to encompass all, or nearly all, of salmon-growing areas in the northern hemisphere [39]. Potentially affected species in these areas are salmonids (i.e. including all trout species). Where a species is not natural to a region (e.g. Atlantic or Pacific Salmon in Chile) the areas are not considered as "areas with wild salmonids" even if salmon have escaped from farms and established themselves as a reproducing species in "the wild".  Farms do not need to conduct research on migration rout |   |                    |                            |             |
|----------|---|--|---|--------------------|----------------------------|-------------|
|          |   | a. Identify all salmonid species that naturally occur within 75 km of the farm through literature search or by consulting with a reputable authority. If the farm is not in an area with wild salmonids, then 3.1.5b and c do not apply.   | a) Atlantic salmon (Salmo salar) and trout (Salmo trutta) is naturally occurring in the area.   |                    |                            |             |
|          |   | b. For species listed in 3.1.5a, compile best available information on migration routes, migration timing (range of months for juvenile outmigration and returning salmon), life history timing for coastal resident salmonids, and stock productivity over time in major waterways within Solem of the farm   | Migratory routes as defined in web site "environmental statistics" (miljøstatatus.no) on<br>salmonid carrying rivers, and Lakseregisteret from Miljødirektoratet. Also map from DN with<br>rivers identified the migration routes are located 16-30 km from the sites.<br>Report "Risikorapport norsk fiskeoppdrett 2017" by Institute of Marine Research, published<br>on their website.<br>Report "Smolt - en kunnskapsoppdatering" by Directorate of Environment 2014. | Compliant          |                            |             |
|          |   | c. From data in 3.1.5b, identify any sensitive periods for wild salmonids (e.g. periods of outmigration of juveniles) within 50 km of the farm.  | Sensitive period defined in regulation "Forskrift om endring i forskrift om bekjempelse av lakselus", states less than 0,2 adult female lice per fish from week 21 to week 26.  Sufficient awarness and also participation in related scientific projects by Cermaq staff   |                    |                            |             |
|          |   | -  |   |                    |                            |             |
| Footnote | [37] For purposes of these standards, "are  | eas with wild salmonids" are defined as areas within 75 kilometers of a wild salmonid migration  | n route or habitat. This definition is expected to encompass all, or nearly all, of salmon-growing  | areas in the nort  | hern hemisphere.           |             |
| Footnote | [38] Farms do not need to conduct research on migration   | n routes, timing and the health of wild stocks under this standard if general information is alrea<br>information is needed to make management decisions rela  | ady available. Farms must demonstrate an understanding of this information at the general leve ated to minimizing potential impact on those stocks.   | el for salmonid po | opulations in their region | on, as such |

|          |   | a. Inform the CAB if the farm operates in an area of wild salmonids. If not, then Indicator 3.1.6 does not apply.  | a) Salmonides, ex. S salar, S. trouta, S.etc. naturally occurring in the area.   |           |  |
|----------|---|--|--|-----------|--|
|          | Indicator: In areas of wild salmonids, monitoring of sea<br>lice levels on wild out-migrating salmon juveniles or on  | b. Keep records to show the farm participates in monitoring of sea lice on wild salmonids.   | b) it is a breach of Norwegian regulations for the applicant to conduct sea lice counts in wild salmonids. However, according to VR 136 it is accepted that the farm may contribut to governmental monitoring if the program is geographically relevant.   |           |  |
| 3.1.6    | coastal sea trout or Arctic char, with results made publicly available. See requirements in Appendix III-1.  Requirement: Yes   | c. Provide the CAB access to documentation which is sufficient for the auditor to evaluate whether the methodology used for monitoring of sea lice on wild salmonids is in compliance with the requirements in Appendix III-1. | c) IMR/NINA/NOFIMA/VI - Risk Assessment for Norway, fish farming report 2018, where sealice issues are covered. IMR report on wild stock sealice sitaution "lakselusinfeksjon på vill laksefisk langs norskekysten i 2018. and IMR/vet Institute report on measuring   | Compliant |  |
|          | Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in [32]   | d. Make the results from 3.1.6b easily publicly available (e.g. posted to the company's website) within eight weeks of completion of monitoring.   | environmental effects on wild salmon. Vitenskapsrådet yearly reports on salmon river managment  d) Report published and generally available. Govermental reports publicly available  |           |  |
|          |   | e. Submit to ASC the results from monitoring of sea lice levels on wild salmonids as per<br>Appendix VI.   | e) Submitted to ASC in email dt.29-11-2019   |           |  |
|          |   | a. Inform the CAB if the farm operates in an area of wild salmonids. If not, then Indicator 3.1.7 does not apply.  | a) S. salar and S. trutta and S.Salvelinus) naturally occurring in area.   |           |  |
|          | Indicator: In areas of wild salmonids, maximum on-farm lice levels during sensitive periods for wild fish [39]. See detailed requirements in Appendix II, subsection 2. | b. Establish the sensitive periods [39] of wild salmonids in the area where the farm operates. Sensitive periods for migrating salmonids is during juvenile outmigration and approximately one month before.                   | b) Sensitive periods for migration, week 21- 26 for area definded by the Norwegian government to be <0.2 mature female lice per farmed fish. Samples documents compliance <0.2 mature females per salmon for 2017-2019. c) Invested in a lot of resources for non therapautic sea lice treatment. Weekly testing form      |           |  |
|          | Requirement: 0.1 mature female lice per farmed fish  Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in     | c. Maintain detailed records of monitoring on-farm lice levels (see 3.1.4) during sensitive periods as per Appendix II-2.  | predetermined cages, according NFSA regulations. Sealice lifestage identified and recorded. (in aquafarmer and excel sheet for submittance to NSA via Altinn) Record of weekly testing for period 2009 to 2018. Samples documents compliance <0.1 mature females per salmon for 2017-2019.                                 | Compliant |  |
|          | [32]  | d. Provide the CAB with evidence there is a 'feedback loop' between the targets for on-farm lice levels and the results of monitoring of lice levels on wild salmonids (Appendix II-2).  | d) It is a breach of Norwegian regulations for the applicant to conduct sea lice counts in wild salmonids. However, according to VR 136 it is accepted that the farm may contribut to governmental monitoring if the program is geographically relevant. Public reports regarding this issue is easily publicly available. |           |  |
| Footnote |   | [39] Sensitive periods for migrating salmonids is during juver   | nile outmigration and approximately one month before.  |           |  |

|          |   | Criterion 3.2 Introduction of non-   | native species   |     |  |  |
|----------|---|--|--|-----|--|--|
|          |   | Compliance Criteria (Required Client Actions):   | Auditor Evaluation (Required CAB Actions):   |     |  |  |
|          |   | Note: For the purposes of Indicator 3.2.1, "area" is defined as a contiguous body of water wit reproduction (e.g. the Northern Atlantic Coast of the U.S. and Canada). Appendix II-1A elabor account the zone in which key cumulative impacts on wild populations may occur, water mov area relates to the spatial extent that is likely to be put at risk from the non-native salmon. As  | rates further on this definition: "The boundaries of an area should be defined, taking into rement and other relevant aspects of ecosystem structure and function." The intent is that the |     |  |  |
|          |   | a. Inform the CAB if the farm produces a non-native species. If not, then Indicator 3.2.1 does not apply.  |  |     |  |  |
|          | Indicator: If a non-native species is being produced, demonstration that the species was widely commercially  | b. Provide documentary evidence that the non-native species was widely commercially produced in the area before June 13, 2012.   |  |     |  |  |
| 3.2.1    | produced in the area by the date of publication of the ASC Salmon standard  Requirement: Yes [40]   | c. If the farm cannot provide evidence for 3.2.1b, provide documentary evidence that the farm uses only 100% sterile fish that includes details on accuracy of sterility effectiveness.  |  |     |  |  |
|          | Applicability: All farms except as noted in [40]  | d. If the farm cannot provide evidence for 3.2.1b or 3.2.1c, provide documented evidence that the production system is closed to the natural environment and for each of the following:  1) non-native species are separated from wild fish by effective physical barriers that are in place and well maintained;  2) barriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce [40]; and  3) barriers ensure there are no escapes of biological material [40] that might survive and subsequently reproduce (e.g. UV or other effective treatment of any effluent water exiting the system to the natural environment). |  | N/A |  |  |
| Footnote | [40] Exceptions shall be made for production systems that use 100 percent sterile fish or systems that demonstrate separation from the wild by effective physical barriers that are in place and well-maintained to ensure no escapes of reared specims subsequently reproduce. |  |  |     |  |  |

| 3.2.2    | Indicator: If a non-native species is being produced, evidence of scientific research [41] completed within the past five years that investigates the risk of establishment of the species within the farm's jurisdiction and these results submitted to ASC for review [42]  Requirement: Yes  Applicability: All [43] | are met: eradication would be impossible or have detrimental environmental effects; the intratified); the species is fully self-sustaining.  Note: For the purposes of Indicator 3.2.2, "jurisdiction" is defined the same as "area" in 3.2.1  a. Inform the ASC of the species in production (Appendix VI).  b. Inform the CAB if the farm produces a non-native species. If not, then Indicator 3.2.2 does not apply.  c. If yes to 3.2.2b, provide evidence of scientific research completed within the past five years that investigates the risk of establishment of the species within the farm's jurisdiction. Alternatively, the farm may request an exemption to 3.2.2c (see below).  d. If applicable, submit to the CAB a request for exemption that shows how the farm meets all three conditions specified in instruction box above.  e. Submit evidence from 3.2.2c to ASC for review. | plication of the ASC Salmon Standard (i.e. full compliance by June 13, 2017).  It became established prior to farming activities in the area and the following three conditions oduction took place prior to 1993 (when the Convention on Biological Diversity (CBD) was  NA  NA  med species, use credible methodologies and analysis, and undergo peer review. | N/A           |  |
|----------|---|--|--|---------------|--|
| Footnote |   | farming of non-native salmon in that jurisdiction. The ASC intends to bring this evidence into f   | ction under this standard. In the event that the risk tools demonstrate "high" risks, the SAD exputure revision of the standard and those results taken forward into the revision process.  e area and the following three conditions are met: eradication would be impossible or have det   |               |  |
| 3.2.3    | Indicator: Use of non-native species for sea lice control for on-farm management purposes  Requirement: None  | a. Inform the CAB if the farm uses fish (e.g. cleaner fish or wrasse) for the control of sea lice.  b. Maintain records (e.g. invoices) to show the species name and origin of all fish used by the farm for purposes of sea lice control.   | No cleaning fish were used at the farm   | Compliant     |  |
|          | Applicability: All  | c. Collect documentary evidence or first hand accounts as evidence that the species used is not non-native to the region.  Criterion 3.3 Introduction of trans   |  |               |  |
|          |   | Compliance Criteria (Required Client Actions):   | Auditor Evaluation (Required CAB Actions):   | ļ             |  |
|          | Indicator: Use of transgenic [44] salmon by the farm  Requirement: None  Applicability: All   | a. Prepare a declaration stating that the farm does not use transgenic salmon.      b. Maintain records for the origin of all cultured stocks including the supplier name, address and contact person(s) for stock purchases.      c. Ensure purchase documents confirm that the culture stock is not transgenic.  | a, b, c) Statement dt. 23.March.2017, from genetics provider AquaGen breeding stock, stating that only conventional breeding and genetics are applied. Cermaq policies on non-GMO available in statement dated 26.June.2019, signed by Product Quality Manager Aquagen is GlobleGAP certified (GGN 4049929687783) valid until 30.01.2020.                        | Compliant     |  |
| Footnote | [44] Transgenic: Con  | taining genes altered by insertion of DNA from an unrelated organism. Taking genes from one  | species and inserting them into another species to get that trait expressed in the offspring (refe   | erence USDA). |  |

|          |   | Criterion 3.4 Escapes [  | [47]  |                   |                |  |  |
|----------|---|--|---|-------------------|----------------|--|--|
|          |   | Compliance Criteria (Required Client Actions):   | Auditor Evaluation (Required CAB Actions):  |                   |                |  |  |
| Footnote |   | [45] See Appendix VI for transparency rec  | quirements for 3.4.1, 3.4.2 and 3.4.3.  |                   |                |  |  |
|          | Indicator: Maximum number of escapees [46] in the most recent production cycle  Requirement: 300 [47]  Applicability: All farms except as noted in [47]   | a. Maintain monitoring records of all incidences of confirmed or suspected escapes, specifying date, cause, and estimated number of escapees.  |   |                   |                |  |  |
|          |   | b. Aggregate cumulative escapes in the most recent production cycle.   |   |                   |                |  |  |
| 3.4.1    |   | c. Maintain the monitoring records described in 3.4.1a for at least 10 years beginning with the production cycle for which farm is first applying for certification (necessary for farms to be eligible to apply for the exception noted in [47]).   | a-d) No escape registered on FOD. Documented in production and recording system Fishtalk. Environmental company/site reports for 2019 states 0 escapes. Documented by report from company and register at Directorate of Fisheries (DOF) (www.fiskeridir.no).Cross-checked and verified with the estimate of unexplained loss. e) Submitted to ASC in email dt.29-11-2019 | Compliant         |                |  |  |
|          |   | d. If an escape episode occurs (i.e. an incident where > 300 fish escaped), the farm may request a rare exception to the Standard [47]. Requests must provide a full account of the episode and must document how the farm could not have predicted the events that caused the escape episode. |   |                   |                |  |  |
|          |   | e. Submit escape monitoring dataset to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).   |   |                   |                |  |  |
| Footnote | [46] Farms shall report all escapes; the  | ne total aggregate number of escapees per production cycle must be less than 300 fish. Data or   | n date of escape episode(s), number of fish escaped and cause of escape episode shall be repor  | ed as outlined in | n Appendix VI. |  |  |
| Footnote | [47] A rare exception to this standard may be made for an escape event that is clearly documented as being outside the farm's control. Only one such exceptional episode is allowed in a 10-year period for the purposes of this standard. The 10-year period starts at the beginning of the production cycle for which the farm is applying for certification. The farmer must demonstrate that there was no reasonable way to predict the events that caused the episode. See auditing guidance for additional details. |  |   |                   |                |  |  |
|          | Indicator: Accuracy [48] of the counting technology or counting method used for calculating stocking and harvest numbers  Requirement: ≥ 98%  Applicability: All  | a. Maintain records of accuracy of the counting technology used by the farm at times of stocking and harvest. Records include copies of spec sheets for counting machines and common estimates of error for hand-counts.   | a) Counting performed at fresh water (FW) site, vaccination numbers used for stocking number at sea net cage, and final accurate numbers at harvest plant where individual fish is handled and regsitered.  |                   |                |  |  |
| 3.4.2    |   | b. If counting takes place off site (e.g. pre-smolt vaccination count), obtain and maintain documents from the supplier showing the accuracy of the counting method used (as above).   | b) Vaccination numbers in FW used as accurate number stocked.Statement from aquascanon 98% accuracy and Wingtech installed on Wellboats 98%. EUL was used to cross check the and verify the accuracy.   | Compliant         |                |  |  |
| 3.4.2    |   | c. During audits, arrange for the auditor to witness calibration of counting machines (if used by the farm).   | <ul> <li>c) Equipment used according to requrements when stocking and any grading<br/>spillting/counting operations are performed by weelboat on site. No counting machines were<br/>used on site during the audit.</li> </ul>  | Compilant         |                |  |  |
|          |   |  | d) Cross-checked with EUL%  |                   |                |  |  |
|          |   | e. Submit counting technology accuracy to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).  | e) Submitted to ASC in email dt.29-11-2019  |                   |                |  |  |
| Footnote |   | [48] Accuracy shall be determined by the spec sheet for counting mach  | ines and through common estimates of error for any hand-counts.   |                   |                |  |  |

| 3.4.3 Requir   | cator: Estimated unexplained loss [49] of farmed<br>ion is made publicly available<br>uirement: Yes<br>licability: All   | Instruction to Clients for Indicator 3.4.3 - Calculation of Estimated Unexplained Loss The Estimated Unexplained Loss (EUL) of fish is calculated at the end of each production cycle EUL = (stocking count) - (harvest count) - (mortalities) - (recorded escapes) Units for input variables are number of fish (i.e. counts) per production cycle. Where possible adapted from footnote 59 of the ASC Salmon Standard.  a. Maintain detailed records for mortalities, stocking count, harvest count, and escapes (as per 3.4.1).  b. Calculate the estimated unexplained loss as described in the instructions (above) for the most recent full production cycle. For first audit, farm must demonstrate understanding of calculation and the requirement to disclose EUL after harvest of the current cycle.  c. Make the results from 3.4.3b available publicly. Keep records of when and where results were made public (e.g. date posted to a company website) for all production cycles.   |  | Compliant        |    |  |
|--|--|---|--|------------------|----|--|
| Footnote   | [49] Calculated at the e   | d. Submit estimated unexplained loss to ASC as per Appendix VI for each production cycle.  d of the production cycle as: Unexplained loss = Stocking count – harvest count – mortalities –  | other known escapes. Where possible, use of the pre-smolt vaccination count as the stocking of   | ount is preferre | d. |  |
| Indical related approprious report approprious and another section 3.4.4 events countil Requir | cator: Evidence of escape prevention planning and ted employee training, including: net strength testing; ropriate net mesh size; net traceability; system stress; predator management; record keeping and orting of risk events (e.g., holes, infrastructure issues, dling errors, reporting and follow up of escape ats); and worker training on escape prevention and ting technologies uirement: Yes | a. Prepare an Escape Prevention Plan and submit it to the CAB before the first audit. This plan may be part of a more comprehensive farm planning document as long as it addresses all required elements of Indicator 3.4.4.  b. If the farm operates an open (net pen) system, ensure the plan (3.4.4a) covers the following areas: - net strength testing; - appropriate net mesh size; - net traceability; - system robustness; - predator management; - record keeping; - reporting risk events (e.g. holes, infrastructure issues, handling errors); - planning of staff training to cover all of the above areas; and - planning of staff training on escape prevention and counting technologies.  c. If the farm operates a closed system, ensure the plan (3.4.4a) covers the following areas: - system robustness; - predator management; - record keeping; - reporting risk events (e.g. holes, infrastructure issues, handling errors); - planning of staff training to cover all of the above areas; and - planning of staff training to cover all of the above areas; and - planning of staff training to cover all of the above areas; and - planning of staff training to cover all of the above areas; and - planning of staff training to cover all of the above areas; and - planning of staff training to cover all of the above areas; and - planning of staff training to cover all of the above areas; and - planning of staff training to cover all of the above areas; and - planning of staff training to cover all of the above areas; and - planning of staff training to cover all of the above areas; and - planning of staff training to cover all of the above areas; and - planning of staff training to cover all of the above areas; and | a) Risk assessments and several procedures describes actions to prevent escape (inspection, maintenance, etc.), e.g.: Risk assessment for escapes, d.t 25.04.2019, including relevant issues related to potensial causes to escapes, e.g delicing procedure "Prosedyre for a avlusning med lukket presenning not og mære" ID 189, d.t 15.03.2019 Producer for daily maintaice of sites (prosedyre for daglig ettersyn og røkting matfisk) updated on 10.12.2019.  b) The Escape Prevention Plan and accompanying documents covers the following areas: net strength testing; appropriate net mesh size; net traceability; system robustness; predator management; record keeping; reporting risk events (e.g. holes, infrastructure issues, handling errors); planning of staff training to cover all of the above areas; planning of staff training to cover all of the above areas; planning of staffs was available. c) Open system  d) All structures NYTEK certified Norwegian standard NS9415 (Certificate APN-344 by Akvaplan Niva dated 19.09.2018). Furthermore there was a risk assessment for escapes, d.t 25.04.2019, including relevant issues related to potensial causes to escapes, e.g delicing procedure "Prosedyre for a avlusning med lukket presenning not og mære" ID 189, d.t 15.03.2019 Producer for daily maintaice of sites (prosedyre for daglig ettersyn og røkting matfisk) updated on 10.12.2019. e) Escape prevention training internal/external for sitemanagers and site employee. Annual revision of escape prevention plan, risk assessment and contingency plans. Test of escape prevention plan included in training in 2018 and 2019. Seen training record for all employees in 2019 | Compliant        |    |  |

|   |   | PRINCIPLE 4: USE RESOURCES IN AN ENVIRONMENTALLY<br>Criterion 4.1 Traceability of raw n  |   |                         |                       |             |
|---|---|--|---|-------------------------|-----------------------|-------------|
|   |   | Compliance Criteria (Required Client Actions):   | Auditor Evaluation (Required CAB Actions):  |                         |                       |             |
| Instruction to Clients for Indicators 4.1.1 through 4.4.2 - Sourcing of Responsibly Produced Salmon Feeds Farms must show that all feeds used by the farm are produced in compliance with the requirements of Indicators 4.1.1 through 4.4.4. To do so, farms must obtain documentary evidence that the feed producers (see note 1) are audited at regular intervals by an independent auditing firm or a conformity assessment body against a recognized standard which substantially incorporate requirements for traceability. Acceptable certification schemes include GlobalGAP or other schemes that have been acknowledged by the ASC (see 4.1.1c below). Results from these audits shall demonstrate that feed producers have robust information systems and information handling processes to allow the feed producers to be able to bring forward accurate information about their production and supply chains. Declarations from the feed producer that are provided to the farm to demonstrate compliance with these indicators must be supported by the audits. Farms must also show that all of their feed producers are duly informed of the requirements of the ASC Salmon Standard relating to sourcing of responsibly produced salmon feed (see 4.1.1b below). |   |  |   |                         |                       |             |
| In addition to the above, farms must also show that their feed suppliers comply with the more detailed requirements for traceability and ingredient sourcing that are specified under indicators 4.1.1 through 4.4.2. The ASC Salmon Standard allows farms to use one of two different methods to demonstrate compliance of feed producers:   |   |  |   |                         |                       |             |
| Method #1: Farms may choose to source feed from feed producers who used only those ingredients allowed under the ASC Salmon Standards during the production of a given batch of feed. For example, the farm may request its feed supplier to produce a batch of feed according to farm specifications. Audits of the feed producer will independently verify that manufacturing processes are in compliance with ASC requirements.  |   |  |   |                         |                       |             |
| Method #2: Farms may choose to source feed from feed producers who demonstrate compliance using a "mass-balance" method. In this method, feed producers show that the balance of all ingredients (both amount and type) used during a given feed production period meets ASC requirements. However, mixing of ingredients into the general silos and production lines is allowed during manufacturing. Audits of the feed producer will independently verify that manufacturing processes are in compliance with ASC requirements. The mass balance method can be applied, for example, to integrated feed production companies that handle all steps of feed manufacturing (purchasing of raw materials, processing to finished feed, and sales) under the management of a single legal entity.  |   |  |   |                         |                       |             |
| Note 1: The term "feed producer" is used here to identify the organization that produces the fish feed (i.e. it is the "feed manufacturer"). In most cases, the organization supplying feed to a farm (i.e. the feed supplier) will be the same organization that produced the feed, but there may be instances where feed suppliers are not directly responsible for feed production. Regardless of whether the farm sources feeds directly from a feed producer or indirectly through an intermediary organization, it remains the farm's obligation to show evidence that all feeds used are in compliance with requirements.  |   |  |   |                         |                       |             |
|   |   | a. Maintain detailed records of all feed suppliers and purchases including contact information and purchase and delivery records.  | n<br>a) Feed suppliers:   |                         |                       |             |
| 4.1.1   |   | b. Inform each feed supplier in writing of ASC requirements pertaining to production of salmon feeds and send them a copy of the ASC Salmon Standard.  | EWOS (www.cargill.com) Records of purchase:1 297000 kg delivered in FishTalk for current G  |                         |                       |             |
|   | Indicator: Evidence of traceability, demonstrated by the feed producer, of feed ingredients that make up more than 1% of the feed [50]. | ator: Evidence of traceability, demonstrated by the producer used by the farm, confirm that an audit of the producer was recently done by an audit firm or CAB against an ASC-acknowledged certification scheme.  Obtain a copy of the most recent audit report for each feed producer.  EWOS dt.26.03.18  EWOS dt.26.03.18  c) EWOS: Audited by DNV GL GG CFM dt26.06.2019, | c) EWOS: Audited by DNV GL GG CFM dt26.06.2019, Global G.A.P. CFM Version 2.1 Dec13.  | Compliant               |                       |             |
|   | Requirement: Yes  Applicability: All  | d. For each feed producer, determine whether the farm will use method #1 or method #2 (see Instructions above) to show compliance of feed producers. Inform the CAB in writing.  | Certifcate GGN CoC 4050373825744 , valid to 24.06.2020  d) Method #2 Massbalance e) Statement from Cargill/EWOS on complete traceability dated 03.01.2019 |                         |                       |             |
|   |   | e. Obtain declaration from feed supplier(s) stating that the company can assure traceability of all feed ingredients that make up more than 1% of the feed to a level of detail required by the ASC Salmon Standard [50].  | f) Statement and certificate for feed supplier verified.  |                         |                       |             |
| Footnote  | [50] Traceability shall be at a level of detail that permits  | the feed producer to demonstrate compliance with the standards in this document (i.e., mari<br>party documentation of the ingredie   | ne raw ingredients must be traced back to the fishery, soy to the region grown, etc.). Feed manunts covered under this standard.                          | l<br>ufacturers will ne | ed to supply the farm | with third- |

|          |  | Criterion 4.2 Use of wild fish f  |   |           |  |      |
|----------|--|---|---|-----------|--|------|
|          |  | Compliance Criteria (Required Client Actions):  | Auditor Evaluation (Required CAB Actions):  |           |  |      |
| Footnote | Indicator: Fishmeal Forage Fish Dependency Ratio (FFDRm) for grow-out (calculated using formulas in Appendix IV- 1)  Requirement: < 1.2  Applicability: All  | Instruction to Clients for Indicator 4.2.1 - Calculation of FFDRm  Farms must calculate the Fishmeal Forage Fish Dependency Ration (FFDRm) according to formula presented in Appendix IV-1 using data from the most recent complete production cycle. Farms must also show that they have maintained sufficient information in order to make an accurate calculation of FFDRm as outlined below. For first audits, farms may be exempted from compliance with Indicator 4.2.1 for the most recent complete production cycle (i.e. If the FFDRm of the most recent crop was > 1.2) if the farm can satisfactorily demonstrate to the auditor that:  - the client understands how to accurately calculate FFDRm;  - the client maintains all information needed to accurately calculate FFDRm (i.e. all feed specs for > 6 months) for the current production cycle; and - the client can show how feed used for the current production cycle will ensure that the farm will meet requirements at harvest (i.e. FFDRm < 1.2). |   |           |  |      |
| 4.2.1    |  | a. Maintain a detailed inventory of the feed used including:  - Quantities used of each formulation (kg);  - Percentage of fishmeal in each formulation used;  - Source (fishery) of fishmeal in each formulation used;  - Percentage of fishmeal in each formulation derived from trimmings; and  - Supporting documentation and signed declaration from feed supplier.  b. For FFDRm calculation, exclude fishmeal derived from rendering of seafood by-products (e.g. the "trimmings" from a human consumption fishery.  | a) Total feed used at the farm for G18: 496000 kg<br>Total fish meal of the feed: 25.2%<br>Fish meal from forage fish: 14.4%<br>Fish meal from trimming: 42.9% of the total fishmeal in the feed<br>b) Trimmings is excluded. | Compliant |  |      |
|          |  | c. Calculate eFCR using formula in Appendix IV-1 (use this calculation also in 4.2.2 option #1).  | c) eFCR 2018G (cycle not finished yet, full cycle will be provided after harvest): 0.96 d) FFDRm 2018G (cycle not finished yet, full cycle will be provided after harvest): 0,60 e) Submitted to ASC in email dt.29-11-2019   |           |  |      |
|          |  | d. Calculate FFDRm using formulas in Appendix IV-1.  e. Submit FFDRm to ASC as per Appendix VI for each production cycle.   |   |           |  | 0,6  |
|          |  | Note: Under Indicator 4.2.2, farms can choose to calculate FFDRo (Option #1) or EPA & DHA ( shall inform the CAB which option they will use.  | Option #2). Farms do not have to demonstrate that they meet both threshold values. Client   |           |  |      |
|          | Indicator: Fish Oil Forage Fish Dependency Ratio (FFDRo) for grow-out (calculated using formulas in Appendix IV-1), or, Maximum amount of EPA and DHA from direct marine sources [52] (calculated according to Appendix IV-2)  Requirement: FFDRo < 2.52 or (EPA + DHA) < 30 g/kg feed  Applicability: All | a. Maintain a detailed inventory of the feed used as specified in 4.2.1a.   |   |           |  |      |
|          |  | b. For FFDRo and EPA+DHA calculations (either option #1 or option #2), exclude fish oil derived from rendering of seafood by-products (e.g. the "trimmings" from a human consumption fishery.   | a) Total feed used at the farm for G18: 496000 kg<br>Total fish oil of the feed: 11.8%<br>Fish oil from forage fish: 8.50%  |           |  |      |
| 4.2.2    |  | c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard.  | b)option 1 is used.  Trimmings is excluded.   | Constitut |  |      |
|          |  | d. For option #1, calculate FFDRo using formulas in Appendix IV-1 and using the eFCR calculated under 4.2.1c.   | c) eFCR 2018G (cycle not finished yet, full cycle will be provided after harvest): 0.96 d) FFDRo 2018G (cycle not finished yet, full cycle will be provided after harvest): 1.53 e) NA  | Compliant |  |      |
|          |  | e. For option #2, calculate amount of EPA + DHA using formulas in Appendix IV-2.  | f) Submitted to ASC in email dt.29-11-2019  |           |  |      |
|          |  | f. Submit FFDRo or EPA & DHA to ASC as per Appendix VI for each production cycle.   |   |           |  | 1,53 |
| Footnote |  | heries by-products and trimmings. Trimmings are defined as by-products when fish are proces<br>official regulations with regard to fish<br>s can be excluded from the calculation as long as the origin of the trimmings is not any species   | suitable for human consumption.   |           |  |      |

| Indicator: Timeframe for all fishmeal and fish oil used in feed to come from fisherics (SI) certified under a scheme that is an SEAI member (SI) and has guidelines that specifically promote responsible environmental management of small polagic fisheries.  Applicability: N/A  Footnote    S3] This standard and 43.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries, or fisheries where the catch is directly reduced (including kmill) and not to by-products or trimmings used in feed.    S3] This standard and 43.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries, or fisheries where the catch is directly reduced (including kmill) and not to by-products or trimmings used in feed.    S4] Meets SEAI guidelines as demonstrated through full membership in the ISSAI. All large, or equivalent as determined by the Technical Advisory Group of the ASC.    S4] Meets SEAI guidelines as demonstrated through full membership in the ISSAI. All large, or equivalent as determined by the Technical Advisory Group of the ASC.    Indicator: Prior to achieving 4.3.1, the FishSource scores of the this species used as feed ingredient, so the following: good to the purpose of the correct fishery the scored own or click on the link from the menu on the left reads "Scores" confirm that the search fisherical to correct fishery the scored own or click on the link from the menu on the left reads "Scores" confirm that each individual score 2.6 and biomass score 2.6 and biomass score 2.6 and biomass score 3.6 and guident from the score in seal fishering |          |  | Criterion 4.3 Source of marine r  | aw materials   |              |  |
|--|----------|--|---|--|--------------|--|
| that is an ESAL member (5) and hard push has guidelines that state specifically promote responsible environmental specifically promote (53) This standard and standard 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries, or faheries where the catch is directly reduced (including kirill) and not to by-products or trimmings used in feed.    Formote   Standard   Standard |          |  | Compliance Criteria (Required Client Actions):  | Auditor Evaluation (Required CAB Actions):   |              |  |
| Instruction to Clients for Indicator 4.3.2 - FishSource Score of Fish Used in Feed To determine FishSource scores of the fish species used as feed ingredients, do the following: 1  | 4.3.1    | feed to come from fisheries [53] certified under a scheme that is an ISEAL member [54] and has guidelines that specifically promote responsible environmental management of small pelagic fisheries  Requirement: Not required | NA  |  | N/A          |  |
| Instruction to Clients for Indicator 4.3.2 - FishSource Score of Fish Used in Feed To determine FishSource scores of the fish species used as feed ingredients, do the following: •go to http://www.fishSource.org/ -type the species into the search function box and choose the accurate fishery -confirm that the search identifies the correct fishery then scroll down or click on the link from the menu on the left reads "Scores" For first audits, farms must have scoring records that cover all feeds purchased during the previous 6-month period.  Note: Indicator: Prior to achieving 4.3.1, the FishSource score [55] for the fishery([es) from which all marine raw material in feed is derived  a. Record FishSource score for each species from which fishmeal or fish oil was derived and used as a feed ingredient (all species listed in 4.2.1a).  a. Record FishSource score for each species from which fishmeal or fish oil was derived and used as a feed ingredient (all species listed in 4.2.1a).  b. Confirm that each individual score ≥ 6 and the biomass score is ≥ 6.  Applicability: All  c. If the species is not on the website it means that a FishSource assessment is not available. Client can then take one or both of the following actions:  1. Contact FishSource is Sustainable FishFisher's Partnerships to identify the species as a feed ingredients, do the following:  a b. Correspondence verified. Individual score > 6 and Biomass score > 8, e.g. European sprat North Sea (Sprattus) used in feed from EWOS was checked and the scores were more than 6.  | Footnote | [53] This standard   |   |  | sed in feed. |  |
| To determine FishSource scores of the fish species used as feed ingredients, do the following: •go to http://www.fishsource.org/ •Type the species into the search function box and choose the accurate fishery -confirm that the search identifies the correct fishery then scroil down or click on the link from the menu on the left reads "Scores"  For first audits, farms must have scoring records that cover all feeds purchased during the previous 6-month period.  Note: Indicator: Prior to achieving 4.3.1, the FishSource score [55] for the fishery(ies) from which all marine raw material in feed is derived  a. Record FishSource score for each species from which fishmeal and oil from forage fisheries, pelagic fisheries, or fisheries where the catch is directly reduced (including krill) and not to by-products or trimmings used in feed.  a. Record FishSource score for each species from which fishmeal or fish oil was derived and used as a feed ingredient (all species listed in 4.2.1a).  a) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert int. ASC) on complete traceability dated 03.01.2019with details of raw material sources in specific feeds for this site in this period have scores according to ASC s requirement for this indicator.  c. If the species is not on the website it means that a FishSource assessment is not available. Client can then take one or both of the following actions.  Compliant North Sea (Sprattus Sprattus) used in feed from EWOS was checked and the scores were more than 6.  | Footnote |  | [54] Meets ISEAL guidelines as demonstrated through full membership in the ISEAL A  | lliance, or equivalent as determined by the Technical Advisory Group of the ASC.   |              |  |
| priority for discissincing   | 4.3.2    | [55] for the fishery(ies) from which all marine raw material in feed is derived  Requirement: All individual scores ≥ 6, and biomass score ≥ 6   | To determine FishSource scores of the fish species used as feed ingredients, do the following -go to http://www.fishsource.org/ - type the species into the search function box and choose the accurate fishery -confirm that the search identifies the correct fishery then scroll down or click on the link from the first audits, farms must have scoring records that cover all feeds purchased during the properties and the fisher is a purchased during the properties are fisher in feed.  a. Record FishSource score for each species from which fishmeal or fish oil was derived and used as a feed ingredient (all species listed in 4.2.1a).  b. Confirm that each individual score ≥ 6 and the biomass score is ≥ 6.  c. If the species is not on the website it means that a FishSource assessment is not available. Client can then take one or both of the following actions: | a) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert iht. ASC ) on complete traceability dated 03.01.2019with details of raw material sources in specific feeds for this site in this period have scores according to ASC s requirement for this indicator.  b) Correspondence verified. Individual score >6 and Biomass score >8, e. g. European sprat North Sea (Sprattus Sprattus) used in feed from EWOS was checked and the scores were | Compliant    |  |

| 4.3.3    | Indicator: Prior to achieving 4.3.1, demonstration of third-party verified chain of custody and traceability for the batches of fishmeal and fish oil which are in compliance with 4.3.2.  Requirement: Yes  Applicability: All   | Instruction to Clients for Indicator 4.3.3 - Third-Party Verification of Traceability Indicator 4.3.3 requires that farms show that their feed producers can demonstrate chain of a audits of feed producers (see 4.1.1c) as evidence that traceability systems are in compliance. requirements of Indicator 4.3.3 by submitting evidence that suppliers, and the batches of fish Standard for Responsible Supply or to the Marine Stewardship Council Chain of Custody Stander for the first audit, a minimum of 6 months of data on feed is required and evidence shall rela a. Obtain from the feed supplier documentary evidence that the origin of all fishmeal and fish oil used in the feed is traceable via a third-party verified chain of custody or traceability program. | meal and oil, are certified to the International Fishmeal and Fish Oil Organization's Global dard.  | Compliant                           |                    |  |  |
|----------|---|--|---|-------------------------------------|--------------------|--|--|
|          |   | b. Ensure evidence covers all the species used (as consistent with 4.3.2a, 4.2.1a, and 4.2.2a).  |   |                                     |                    |  |  |
|          | Indicator: Feed containing fishmeal and/or fish oil originating from by-products [56] or trimmings from IUU [57] catch or from fish species that are categorized as vulnerable, endangered or critically endangered, according to the IUCN Red List of Threatened Species [58], whole fish and fish meal from the same species and family as the species being farmed  Requirement: None [59]  Applicability: All except as noted in [59] | a. Compile and maintain, consistent with 4.2.1a and 4.2.2a, a list of the fishery of origin for all fishmeal and fish oil originating from by-products and trimmings.     b. Obtain a declaration from the feed supplier stating that no fishmeal or fish oil originating from IUU catch was used to produce the feed.   | a, b, c) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert iht. ASC )   |                                     |                    |  |  |
| 4.3.4    |   | c. Obtain from the feed supplier declaration that the meal or oil did not originate from a species categorized as vulnerable, endangered or critically endangered, according to the IUCN Red List of Threatened Species [58] and explaining how they are able to demonstrate this (i.e. through other certification scheme or through their independent audit).  | on complete traceability dated 03.01.2019with details of raw material sources in specific feeds for this site in this period have scores according to ASC s requirement for this indicator.  EWOS: Audited by DNV GL GG CFM dt26.06.2019, Global G.A.P. CFM Version 2.1 Dec13.  Certifcate GGN CoC 4050373825744, valid to 24.06.2020  d) Not from vulnerable fisheries | Compliant                           |                    |  |  |
|          |   | d. If meal or oil originated from a species listed as "vulnerable" by IUCN, obtain documentary evidence to support the exception as outlined in [59].  |   |                                     |                    |  |  |
|          | Indicator: Presence and evidence of a responsible sourcing policy for the feed manufacturer for marine ingredients that includes a commitment to continuous improvement of source fisheries   | a. Request a link to a public policy from the feed manufacturer stating the company's support of efforts to shift feed manufacturers purchases of fishmeal and fish oil to fisheries certified under a scheme that is an ISEAL member and has guidelines that specifically promote responsible environmental management of small pelagic fisheries and committing to continuous improvement of source fisheries.   | a, b, c) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert iht. ASC) on complete traceability dated 03.01.2019with details of raw material sources in specific feeds for this site in this period have scores according to ASC s requirement for this indicator.  |                                     |                    |  |  |
| 4.3.5    | improvement of source fisheries b. Requirement: Yes   | b. Prepare a letter stating the farm's intent to source feed containing fishmeal and fish oil originating from fisheries certified under the type of certification scheme noted in indicator 4.3.1.  | EWOS: Audited by DNV GL GG CFM dt26.06.2019, Global G.A.P. CFM Version 2.1 Dec13.  Certifcate GGN CoC 4050373825744 , valid to 24.06.2020   | Compliant                           |                    |  |  |
|          | Applicability: All  | c. Compile a list of the origin of all fish products used as feed ingredients in all feed.   |   |                                     |                    |  |  |
| Footnote | [56] Trimmings are defined as by-products when fish are processed for human consumption or if whole fish is rejected for use of human consumption because the quality at the time of landing does not meet official regulations with regard to fish suitable for human consumption.   |  |   |                                     |                    |  |  |
| Footnote |   | [57] IUU: Illegal, Unregula  | ted and Unreported.   |                                     |                    |  |  |
| Footnote |   | [58] The International Union for the Conservation of Nature  | ·   |                                     |                    |  |  |
| Footnote |   | •  | National Red List process that is managed explicitly in the same science-based way as IUCN. In c  | ases where a National Red List does | n't exist or isn't |  |  |

|          |   | Criterion 4.4 Source of non-marine ra  | w materials in feed  |                  |                              |       |
|----------|---|--|--|------------------|------------------------------|-------|
|          |   | Compliance Criteria (Required Client Actions):   | Auditor Evaluation (Required CAB Actions):   |                  |                              |       |
|          | Indicator: Presence and evidence of a responsible sourcing policy for the feed manufacturer for feed  | a. Compile and maintain a list of all feed suppliers with contact information. (See also 4.1.1a)   | a, b) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert iht. ASC )   |                  |                              |       |
| 4.4.1    | ingredients that comply with recognized crop moratoriums [60] and local laws [61]  Requirement: Yes   | <ul> <li>Obtain from each feed manufacturer a copy of the manufacturer's responsible sourcing<br/>policy for feed ingredients showing how the company complies with recognized crop<br/>moratoriums and local laws.</li> </ul> | on complete traceability dated 03.01.2019 with details of raw material sources in specific feeds for this site in this period have scores according to ASC s requirement for this indicator.  c) EWOS: Audited by DNV GL GG CFM dt26.06.2019, Global G.A.P. CFM Version 2.1 Dec13.  Certificate GGN CoC 4050373825744, valid to 24.06.2020   | Compliant        |                              |       |
|          | Applicability: All  | c. Confirm that third party audits of feed suppliers (4.1.1c) show evidence that supplier's responsible sourcing policies are implemented.   |  |                  |                              |       |
| Footnote | [60] Moratorium: A period of time in which there is a su  | uspension of a specific activity until future events warrant a removal of the suspension or issu<br>defined geograph   | es regarding the activity have been resolved. In this context, moratoriums may refer to suspensical regions.   | on of the growth | of defined agricultural crop | ps in |
| Footnote | [61] Specifically, the policy shall include that vegetable ingredients, or products derived from vegetable ingredients, must not come from areas of the Amazon Biome that were deforested after July 24, 2006, as geographically defined by the Brazilian Soy Moratorium. Should the Brazilian Soy Moratorium be lifted, this specific requirement shall be reconsidered. |  |  |                  |                              |       |
|          | Indicator: Percentage of soya or soya-derived ingredients in the feed that are certified by the Roundtable for Responsible Soy (RTRS) or equivalent [62] Requirement: 100%  Applicability: All  | a. Prepare a policy stating the company's support of efforts to shift feed manufacturers' purchases of soya to soya certified under the Roundtable for Responsible Soy (RTRS) or equivalent.                                   | a-b) Annual Cermaq Group report 2017 on sustainability policy, requiring feed raw material from sutainable sourcing, (ISEAL scheme fisheries). Code of conduct feed suppliers for Cermaq Group with statement of intent and policy, dated 18.01.17  c) Feed suppliers informed of relevant ASC requirements in mail to EWOS dt.18.06.15.  Continuous communication related to ASC feed issues.  d-e) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert int. ASC) |                  |                              |       |
|          |   | b. Prepare a letter stating the farm's intent to source feed containing soya certified under the RTRS (or equivalent)  |  |                  |                              |       |
| 4.4.2    |   | c. Notify feed suppliers of the farm's intent (4.4.2b).  |  | Compliant        |                              |       |
|          |   | d. Obtain and maintain declaration from feed supplier(s) detailing the origin of soya in the feed.   |  |                  |                              |       |
|          |   | e. Provide evidence that soya used in feed is certified by the Roundtable for Responsible Soy (RTRS) or equivalent [62]  | EWOS: Audited by DNV GL GG CFM dt26.06.2019, Global G.A.P. CFM Version 2.1 Dec13.<br>Certifcate GGN CoC 4050373825744 , valid to 24.06.2020  |                  |                              |       |
| Footnote |   | [62] Any alternate certification scheme would have to be approve   | ed as equivalent by the Technical Advisory Group of the ASC.   |                  |                              |       |
|          | Indicator: Evidence of disclosure to the buyer [63] of the salmon of inclusion of transgenic [64] plant raw material,   | a. Obtain from feed supplier(s) a declaration detailing the content of soya and other plant raw materials in feed and whether it is transgenic.  |  |                  |                              |       |
| 4.4.3    | ·   | b. Disclose to the buyer(s) a list of any transgenic plant raw material in the feed and maintain documentary evidence of this disclosure. For first audits, farm records of disclosures must cover > 6 months.                 | a, b) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert iht. ASC ) on complete traceability dated 03.01.2019, no GMO product is used as feed ingredients c) Submitted to ASC in email dt.29-11-2019  | Compliant        |                              |       |
|          | Applicability: All  | c. Inform ASC whether feed contains transgenic ingredients (yes or no) as per Appendix VI for each production cycle.   |  |                  |                              |       |
| Footnote | [63] The compar   | ny or entity to which the farm or the producing company is directly selling its product. This star   | ndard requires disclosure by the feed company to the farm and by the farm to the buyer of thei   | r salmon.        |                              |       |
| Footnote | [64] Transge  | enic: Containing genes altered by insertion of DNA from an unrelated organism. Taking genes  | from one species and inserting them into another species to get that trait expressed in the offsp  | oring.           |                              |       |
| Footnote |   | [65] See Appendix VI for transpar  | rency requirement for 4.4.3.   |                  |                              |       |

|          |   | Criterion 4.5 Non-biological waste  | from production   |           |  |
|----------|---|---|---|-----------|--|
|          |   | Compliance Criteria (Required Client Actions):  | Auditor Evaluation (Required CAB Actions):  |           |  |
|          | l n   | a. Prepare a policy stating the farm's commitment to proper and responsible treatment of non-biological waste from production. It must explain how the farm's policy is consistent with best practice in the area of operation. | a) Environmental policy for Cermaq Norway AS (11.04.2019) with referance to other relevant internal documents and reports     Procedure for general waste management 7 june 2018 number 163 was avaiable.     b) Statment on date 06.04.2017 that no wast is dumpted to sea.  |           |  |
| 4.5.1    | Indicator: Presence and evidence of a functioning policy for proper and responsible [66] treatment of non-biological waste from production (e.g., disposal and recycling) | b. Prepare a declaration that the farm does not dump non-biological waste into the ocean.   | Definition of dangerous waste and how to be handled were provided on the waste management procedure ID 291 and 20. June. 2018.  c) Nest, old production equipments, bags, empty chemical boxes, old PPEs, waste feed, old feed, silage, and plastics are the general wastes produced on farms.  | Compliant |  |
|          | Requirement: Yes Applicability: All   | c. Provide a description of the most common production waste materials and how the farm ensures these waste materials are properly disposed of.   | d) All nonbiological waste (Nest, old production equipments, bags, empty chemical boxes, old PPEs, waste feed, old feed, silage, and plastics ) handled by accredited companies which are apporved receivers of all kind of waste.  The site has site specific plan for waste handling in their environmental targets, updated  |           |  |
|          |   | d. Provide a description of the types of waste materials that are recycled by the farm.   | annually. Nets are collected by Mørenot. General waste has been delivered to Østbø, last delivery was on 10.11.2019. Dangerous waste are delivered to Østbø, for example a delivery note on 04.11.2019 was seen.  Dead fish are delivied to Scanbio. Last delivery was on 06.06.2019  |           |  |
| Footnote | [66] Proper and responsible disposal will vary based on far<br>waste into the ocean does not represent "proper and resp   | cilities available in the region and remoteness of farm sites. Disposal of non-biological waste sloonsible" disposal.   | hall be done in a manner consistent with best practice in the area. Dumping of non-biological   |           |  |
|          | Indicator: Evidence that non-biological waste (including  | a. Provide a description of the most common production waste materials and how the farm ensures these waste materials are properly disposed of. (see also 4.5.1c)   | a-d) All nonbiological waste (Nest, old production equipments, bags, empty chemical boxes, old PPEs, waste feed, old feed, silage, and plastics ) handled by accredited companies which   |           |  |
| 4.5.2    | net pens) from grow-out site is either disposed of properly or recycled   | b. Provide a description of the types of waste materials that are recycled by the farm. (See also 4.5.1d)   | are apporved receivers of all kind of waste.  The site has site specific plan for waste handling in their environmental targets, updated annually. Nets are collected by Mørenot. General waste has been delivered to Østbø, last delivery was on 10.11.2019. Dangerous waste are delivered to Østbø, for example a delivery note on 04.11.2019 was seen.  Dead fish are delivied to Scanbio. Last delivery was on 06.06.2019 | Compliant |  |
|          | Requirement: Yes Applicability: All   | c. Inform the CAB of any infractions or fines for improper waste disposal received during the previous 12 months and corrective actions taken   |   |           |  |
|          |   | d. Maintain records of disposal of waste materials including old nets and cage equipment.   |   |           |  |

|          |  | Criterion 4.6 Energy consumption and greenhous   | e gas emissions on farms [67]  |                   |                        |         |
|----------|--|--|--|-------------------|------------------------|---------|
|          |  | Compliance Criteria (Required Client Actions):   | Auditor Evaluation (Required CAB Actions):   |                   |                        |         |
| Footnote |  | [67] See Appendix VI for transparency req  | uirements for 4.6.1, 4.6.2 and 4.6.3.  |                   |                        |         |
|          |  | applying for certification. Boundaries for operational energy use should correspond to the sor 3 emissions (i.e. the energy used to fabricate materials that are purchased by the farm) is not use assessments across the board in the company.  | ne entire life cycle "at sea" - it does not include freshwater smolt production stages. Farms that ption if possible. Quantities of energy (fuel and electricity) are converted to kilojoules. |                   |                        |         |
|          | Indicator: Presence of an energy use assessment<br>verifying the energy consumption on the farm and<br>representing the whole life cycle at sea, as outlined in<br>Appendix V- 1 | a. Maintain records for energy consumption by source (fuel, electricity) on the farm throughout each production cycle.   |  |                   |                        |         |
|          | •  | b. Calculate the farm's total energy consumption in kilojoules (kj) during the last production cycle.  | a) Records and calculations were verified  |                   |                        |         |
|          |  | c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle.  | b) Total energy consumption in kilojoules (kj): 4167396000  c) Biomass produced during last complete production cyclus 18G: 5334.76 mt   | Compliant         |                        | 781.179 |
|          |  | d. Using results from 4.6.1b and 4.6.1c, calculate energy consumption on the farm as required, reported as kilojoule/mt fish/production cycle.   | d) Energy consumption KJ/tonn/generation: 781.179 e) Submitted to ASC in email dt.29-11-2019   | Compilant         |                        | 701173  |
|          |  | e. Submit results of energy use calculations (4.6.1d) to ASC as per Appendix VI for each production cycle.   | f) Scope 1 Diesel, fuel oil, crude oil, petrol, propane Scope 2 Electricity. Assessed and compared between sites and production forms.   |                   |                        |         |
|          |  | f. Ensure that the farm has undergone an energy use assessment that was done in compliance with requirements of Appendix V-1.  |  |                   |                        |         |
|          |  | Instruction to Clients for Indicator 4.6.2 - Annual GHG Assessment Indicator 4.6.2 requires that farms must have an annual Greenhouse Gas (GHG) assessment. I requirement is restricted to operational boundaries for the farm site(s) that is applying for ce accounting practices across the board in the company. Verification may be done by internal o (see Appendix V-1 for more details).  Note: For the purposes of this standard, GHGs are defined as the six gases listed in the Kyoto (HFCs); perfluorocarbons (PFCs); and sulphur hexafluoride (SF <sub>6</sub> ). | rtification. However the SAD Steering Committee encourages companies to integrate GHG r external assessment following either the GHG Protocol Corporate Standard or ISO 14064-1                |                   |                        |         |
|          | Indicator: Records of greenhouse gas (GHG [68])  | a. Maintain records of greenhouse gas emissions on the farm.   |  |                   |                        |         |
| 4.6.2    | emissions [69] on farm and evidence of an annual GHG assessment, as outlined in Appendix V-1  Requirement: Yes   | b. At least annually, calculate all scope 1 and scope 2 GHG emissions in compliance with Appendix V-1.   | a) Farm records of GHG assessment.   |                   |                        |         |
|          | Applicability: All   | c. For GHG calculations, select the emission factors which are best suited to the farm's operation. Document the source of those emissions factors.  | b) Farm records of GHG are done continuesly for a month period. Record for 18G: 3002 KJ/mT/gen CO2e  |                   |                        |         |
|          | e. ye:   | d. For GHG calculations involving conversion of non-CO $_2$ gases to CO $_2$ equivalents, specify the Global Warming Potential (GWP) used and its source.  | c; Farm records of GHG assessment. Scope 1 diesel from diesel/gasoline workboat, truck, generator and scope 2 is purchased electricity and purchased service boat diesel consumption.          | Compliant         |                        | 3002    |
|          |  | e. Submit results of GHG calculations (4.6.2d) to ASC as per Appendix VI at least once per year.   | d) Submitted to ASC in email dt.29-11-2019   |                   |                        |         |
|          |  | f. Ensure that the farm undergoes a GHG assessment as outlined in Appendix V-1 at least annually.  |  |                   |                        |         |
| Footnote | [68] For the purposes of this st   | andard, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide (CO <sub>2</sub> ); m   | ethane (CH4); nitrous oxide ( $N_2O$ ); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and su   | ılphur hexafluori | de (SF <sub>6</sub> ). |         |
| Footnote |  | [69] GHG emissions must be recorded using recognized met   | nods, standards and records as outlined in Appendix V.   |                   |                        |         |

| 4.6.3    | Indicator: Documentation of GHG emissions of the feed [70] used during the previous production cycle, as outlined in Appendix V, subsection 2 | Instruction to Clients for Indicator 4.6.3 - GHG Emissions of Feed Indicator 4.6.3 requires that farms document the greenhouse gas emissions (GHG) associated from their feed supplier(s) and thereafter maintain a continuous record of Feed GHG emission production cycle. Therefore farms should inform their feed supplier(s) and: - the farm provides its feed suppliers with detailed information about the requirements included the theorem explain what analyses must be done by feed suppliers; and the farm explains to feed suppliers what documentary evidence will be required by the farm Note1: Farms may calculate GHG emissions of feed using the average raw material composition basis.  Note2: Feed supplier's calculations must include Scope 1, Scope 2, and Scope 3 GHG emission | ns throughout all production cycles. This requirement applies across the entire previous ding a copy of the methodology outlined in Appendix V, subsection 2; a to demonstrate compliance.  On used to produce the salmon (by weight) rather than using feed composition on a lot-by-lot |                   |                          |             |
|----------|---|--|--|-------------------|--------------------------|-------------|
|          |   | a. Obtain from feed supplier(s) a declaration detailing the GHG emissions of the feed (per kg feed).      b. Multiply the GHG emissions per unit feed by the total amount of feed from each supplier.  | a) The statement from the feed supplier show following details: GHG emission for 2018G:  |                   |                          |             |
|          |   | used in the most recent completed production cycle.  c. If client has more than one feed supplier, calculate the total sum of emissions from feed by summing the GHG emissions of feed from each supplier.   | b) Feed usage in 2018G: 496000 kg from EWOS<br>EWOS factor 1.382<br>EWOS: 685 ton CO2/ total feed volume<br>d) Submitted to ASC in email dt.29-11-2019   | Compliant         |                          |             |
|          |   | d. Submit GHG emissions of feed to ASC as per Appendix VI for each production cycle.   |  |                   |                          |             |
| Footnote | [70] GHG emissions from feed can be given based on the  | e average raw material composition used to produce the salmon (by weight) and not as docum<br>feed. Farm site then shall use that information to calculate GHG emissic<br>Criterion 4.7 Non-therapeutic chemi  |  | esponsible for ca | lculating GHG emission   | is per unit |
|          |   | Compliance Criteria (Required Client Actions):   | Auditor Evaluation (Required CAB Actions):   |                   |                          |             |
| Footnote |   | [71] Closed production systems that do not use nets and do not use antifou   | lants shall be considered exempt from standards under Criterion 4.7.   |                   |                          |             |
| Footnote |   | [72] See Appendix VI for transparency req  | uirements for 4.7.1, 4.7.3 and 4.7.4.  |                   |                          |             |
|          |   | a. Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping.  | a) Procedure "Prosedyre for kontroll, ettersyn og renhold av not" ID 315, d.t. 22.08.17.  Internal statement/procedure on antifouling used and not cleaning in sea defined in  |                   |                          |             |
|          | Indicator: For farms that use copper-treated nets [73], evidence that nets are not cleaned [74] or treated in situ                            | b. Maintain records of antifoulants and other chemical treatments used on nets.  | procedure and confirm that nets are not to be cleaned on site b) Documents and traceability available in QMS system and net log from Mørenot.  |                   |                          |             |
| 4.7.1    | in the marine environment  Requirement: Yes   | c. Declare to the CAB whether copper-based treatments are used on nets.  | "Netcoating Plus" whitout copper by Sten-Hansen is used, ref safety sheet dt 13.05.2016, nr 1907/2006 (REACH), EU 2015/830. No need for classification according to the Norwegian Environmental Agency   | Compliant         |                          |             |
|          | Applicability: All farms except as noted in [71]  | d. If copper-based treatments are used, maintain documentary evidence (see 4.7.1b) that farm policy and practice does not allow for heavy cleaning of copper-treated nets in situ.   | c) Copper-based treatments are used. d) Copper-based treatments are used.  |                   |                          |             |
|          |   | e. Inform ASC whether copper antifoulants are used on farm (yes or no) as per Appendix VI for each production cycle.   | e) Submitted to ASC in email dt.29-11-2019   |                   |                          |             |
|          | [73] Under the SAD "conner-treated net" is defined as   | a net that has been treated with any copper-containing substance (such as a copper-based ant   | ifoulant) durng the previous 18 months, or has not undergone thorough cleaning at a land-base  |                   |                          |             |
| Footnote |   | en treated with copper may still consider nets as untreated so long as sufficient time and cleani  | ng has elapsed as in this definition. This will allow farms to move away from use of copper with   | out immediately   | having to purchase all r | new nets.   |

| 4.7.2    | Indicator: For any farm that cleans nets at on-land sites, evidence that net-cleaning sites have effluent treatment [75]  Requirement: Yes  Applicability: All farms except as noted in [71]        | a. Declare to the CAB whether nets are cleaned on-land.  b. If nets are cleaned on-land, obtain documentary evidence from each net-cleaning facility that effluent treatment is in place.  c. If yes to 4.7.2b, obtain evidence that effluent treatment used at the cleaning site is an appropriate technology to capture of copper in effluents. | a) Nets are cleaned on land by net producer and contractor Morenøt AS.  b) Each net facility has certification form the authorities to clean nets at their facilities. All the nest are serviced and cleaned by Morenøt AS. They are certified to ISO 14001:2015. All solids are collected and effluent water is tested for compliance to strict effluent requirements according to Section 25-04 of the Pollution Regulation (Discharges of up to 2 kg of copper / year from land-based facilities for washing farmed nets)  c) No copper effluent is allowed by law in Norway. | Compliant |  |
|----------|---|---|--|-----------|--|
| Footnote |   | [75] Treatment must have appropriate technologies in place  | to capture copper if the farm uses copper-treated nets.  |           |  |
|          | Indicator: For farms that use copper nets or copper-  | Note: If the benthos throughout and immediately outside the full AZE is hard bottom, provide  |  |           |  |
|          | treated nets, evidence of testing for copper level in the sediment outside of the AZE, following methodology in   | a. Declare to the CAB whether the farm uses copper nets or copper-treated nets. (See also 4.7.1c). If "no", Indicator 4.7.3 does not apply.   | a) Copper-based treatments are used.   |           |  |
| 4.7.3    | Requirement: Yes  | b. If "yes" in 4.7.3a, measure and record copper in sediment samples from the reference stations specified in 2.1.1d and 2.1.2c which lie outside the AZE.  | b) Copper is measured as part of the MOM C reqquirements following the NS 9410 sampling standard on all salmon farms carried out at peak feeding.  c) Methods follow the requirement of NS 9410 and are carried out at independent labs by Aquacompetanse AS.  | Compliant |  |
|          | Applicability: All farms except as noted in [71]  | c. If "yes" in 4.7.3a, maintain records of testing methods, equipment, and laboratories used to test copper level in sediments from 4.7.3b.   |  |           |  |
|          | Indicator: Evidence that copper levels [76] are < 34 mg Cu/kg dry sediment weight, or, in instances where the Cu in the sediment exceeds 34 mg Cu/kg dry sediment weight, demonstration that the Cu | a. Inform the CAB whether: 1) farm is exempt from Indicator 4.7.4 (as per 4.7.3a), or 2) Farm has conducted testing of copper levels in sediment.   | B) Levels are below the requirements. Results ranging from 2.6 to 11.2 mg Cu/kg dry  |           |  |
|          |   | b. Provide evidence from measurements taken in 4.7.3b that copper levels are $<$ 34 mg Cu/kg dry sediment weight.   |  |           |  |
| 4.7.4    | concentration falls within the range of background concentrations as measured at three reference sites in the water body  Requirement: Yes  | c. If copper levels in 4.7.4b are $\geq$ 34 mg Cu/kg dry sediment weight, provide evidence the farm tested copper levels in sediments from reference sites as described in Appendix I-1 (also see Indicators 2.1.1 and 2.1.2).  | sediment weight  C) NA  d) NA  | Compliant |  |
|          | Applicability: All farms except as noted in [71] and excluding those farms shown to be exempt from Indicator  | d. Analyze results from 4.7.4c to show the background copper concentrations as measured at three reference sites in the water body.   | e) submitted to ASC on 29-11-2019  |           |  |
|          | 4.7.3   | e. Submit data on copper levels in sediments to ASC as per Appendix VI for each production cycle.   |  |           |  |
| Footnote |   | [76] According to testing required under 4.7.3. The standards related to testing of coppe   | er are only applicable to farms that use copper-based nets or copper-treated nets.   |           |  |
|          | a. Identify all biocides used by the farm in net antifouling.  a. Identify all biocides used by the farm in net antifouling.  a) Nets consist of Netwax NI3, active substan                         | a) Nets consist of Netwax NI3, active substance (3% Cu2O).  |  |           |  |
| 4.7.5    | Requirement: Yes  Applicability: All farms except as noted in [71]  | b. Compile documentary evidence to show that each chemical used in 4.7.5a is approved according to legislation in one or more of the following jurisdictions: the European Union, the United States, or Australia.  | b) Cu2O is approved according to EU-regulation number Reg (EU) 2016/1089 on 01/01/2018 e   | Compliant |  |

|          |  | PRINCIPLE 5: MANAGE DISEASE AND PARASITES IN AN ENV<br>Criterion 5.1 Survival and health of   |  |                   |                         |              |
|----------|--|---|--|-------------------|-------------------------|--------------|
|          |  | Compliance Criteria (Required Client Actions):  | Auditor Evaluation (Required CAB Actions):   |                   |                         |              |
| Footnote |  | [77] See Appendix VI for transparency req   | ,  |                   |                         |              |
|          | Indicator: Evidence of a fish health management plan for<br>the identification and monitoring of fish diseases,<br>parasites and environmental conditions relevant for good<br>fish health, including implementing corrective action | a. Prepare a fish health management plan that incorporates components related to identification and monitoring of fish disease and parasites. This plan may be part of a more comprehensive farm planning document. | Site specific Fish Health Plan for Rivarbukt in QMS with links to relevant procedures. Plan covers all aspect of relevant diseaes and parasite diagnostics and control measures. Internal veterinary services, responsible veterinarian. Approved and signed by veterinarian dt. |                   |                         |              |
|          | when required  Requirement: Yes  Applicability: All  | b. Ensure that the farm's current fish health management plan was reviewed and approved by the farm's designated veterinarian [78].   | 25.06.2019 Karl Fredrik Otem.  Approved and signed by veterinarian dt. 25.06.2019 Karl Fredrik Ottem, Fish Health  Manager.  | Compliant         |                         |              |
|          | Indicator: Site visits by a designated veterinarian [78] at  | a. Maintain records of visits by the designated veterinarian [78] and fish health managers [82]. If schedule cannot be met, a risk assessment must be provided.   |  |                   |                         |              |
| 5.1.2    | least four times a year, and by a fish health manager [79] at least once a month  Requirement: Yes   | b. Maintain a current list of personnel who are employed as the farm's designated veterinarian(s) [78] and fish health manager(s) [79].   | Minimum 12 visits annually. System for weekly scheduled meetings covering e.g FH issues. 4 visits for current G, last visit on 28.11.2019. The list of fish health personnel with valid HPR number was verified. External fish health service provider, Labora AS is also used.  | Compliant         |                         |              |
|          | Applicability: All   | c. Maintain records of the qualifications of persons identified in 5.1.2b.  |  |                   |                         |              |
| Footnote | [78] A designated veterinarian is the professional respons   | ible for health management on the farm who has the legal authority to diagnose disease and p<br>is equivalent to a veterinarian for purposes of these standards. This definition app                                | orescribe medication. In some countries such as Norway, a fish health biologist or other professi<br>slies to all references to a veterinarian throughout the standards document.  | ional has equival | ent professional qualif | ications and |
| Footnote | [79] A fish health ma  | anager is someone with professional expertise in managing fish health, who may work for a far   | rming company or for a veterinarian, but who does not necessarily have the authority to prescri  | be medicine.      |                         |              |
|          | Indicator: Percentage of dead fish removed and disposed  | a. Maintain records of mortality removals to show that dead fish are removed regularly and disposed of in a responsible manner.   | b) System established for handling and documentation according to requirements in national<br>legislation handled by NFSA. Seen "Prosedyre for håndtering av dødfisk,svimere og ensillasje"  |                   |                         |              |
| 513      | of in a responsible manner  Requirement: 100% [80]   | b. Collect documentation to show that disposal methods are in line with practices recommended by fish health managers and/or relevant legal authorities.  | ID 289 dated 29.09.17 in QMS system. Daily removal of dead fish (registration in FishTalk system) and processed to ensilage. All mortalitys to ensilage. Scanbio.Scanbio AS Invoice dated 06-06-2019 on retrival ensilage  | Compliant         |                         |              |
|          | Applicability: All   | c. For any exceptional mortality event where dead fish were not collected for post-mortem analysis, keep a written justification.   | c) No exceptional mortalitys without post-mortem analysis  |                   |                         |              |
| Footnote | [80]   | ] The SAD recognizes that not all mortality events will result in dead fish present for collection  | and removal. However, such situations are considered the exception rather than the norm.   |                   |                         |              |

|          |   | Note: Farms are required to maintain mortality records from the current and two previous pr<br>It is recommended that farms maintain a compiled set of records to demonstrate compliance  | oduction cycles. For first audit, records for the current and prior production cycle are required. with 5.1.3 - 5.1.6.   |           |  |  |  |  |
|----------|---|---|--|-----------|--|--|--|--|
|          |   | a. Maintain detailed records for all mortalities and post-mortem analyses including: - date of mortality and date of post-mortem analysis; - total number of mortalities and number receiving post-mortem analysis; - name of the person or lab conducting the post-mortem analyses; - qualifications of the individual (e.g. veterinarian [78], fish health manager [79]); - cause of mortality (specify disease or pathogen) where known; and - classification as 'unexplained' when cause of mortality is unknown (see 5.1.6). | a)100 % of mortality is categorised for 18G, the last complete production cyclus, documented in Fishtalk: Precent cycle 18G accumulated: Total mortality 3,88 % Virus 1.73 % + Unspesified 1.17 % = Virus + Unspesified = 2.90 %   |           |  |  |  |  |
| 5.1.4    | Indicator: Percentage of mortalities that are recorded, classified and receive a post-mortem analysis  5.1.4 Requirement: 100% [81]  Applicability: All   | b. For each mortality event, ensure that post-mortem analyses are done on a statistically relevant number of fish and keep a record of the results.   | b) All mortalitys are diagnoesed and post-mortem analyses are done on a statistically relevant number of fish (ref unspecified numbers above). Lab analyses routinely. c) 100 % of mortality is categorised for 18G, the last complete production cyclus,                      |           |  |  |  |  |
|          |   | c. If on-site diagnosis is inconclusive and disease is suspected or results are inconclusive over a 1-2 week period, ensure that fish are sent to an off-site laboratory for diagnosis and keep a record of the results (5.1.4a).   | documented in Fishtalk: Precent cycle 18G accumulated: Total mortality 3,88 %  Virus 1.73 % + Unspesified 1.17 % = Virus + Unspesified = 2.90 %  d) Record are available and documented in Fishtalk, all mortalitys are categorised.   | Compliant |  |  |  |  |
|          |   | d. Using results from 5.1.3a-c, classify each mortality event and keep a record of those classifications.   | e) Record are available and documented in Fishtalk production system where mortalitys are recorded and categorised according to FHP and mortality guide.  f) Submitted to ASC in email dt.29-11-2019   |           |  |  |  |  |
|          |   | e. Provide additional evidence to show how farm records in 5.1.4a-d cover all mortalities from the current and previous two production cycles (as needed).  |  |           |  |  |  |  |
|          |   | f. Submit data on numbers and causes of mortalities to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).  |  |           |  |  |  |  |
| Footnote | [81] If on-site diagnosis is inconclusive, this standard requires off-site laboratory diagnosis. A qualified professional must conduct all diagnosis. One hundred percent of mortality events shall receive a post-mortem analysis, not necessarily every fish. A statistically relevant number of fish from the mortality event shall be analyzed. |   |  |           |  |  |  |  |
|          |   | a. Calculate the total number of mortalities that were diagnosed (see 5.1.4) as being related to viral disease.   |  |           |  |  |  |  |
| 5.1.5    | Indicator: Maximum viral disease-related mortality [82] on farm during the most recent production cycle  Requirement: ≤ 10%   | b. Combine the results from 5.1.5a with the total number of unspecified and unexplained mortalities from the most recent complete production cycle. Divide this by the total number of fish produced in the production cycle (x100) to calculate percent maximum viral disease-related mortality.   | a-b) 100 % of mortality is categorised for 18G, the last complete production cyclus, documented in Fishtalk: Precent cycle 18G accumulated: Total mortality 3,88 % Virus 1.73 % + Unspesified 1.17 % = Virus + Unspesified = 2.90 % c) Submitted to ASC in email dt.29-11-2019 | Compliant |  |  |  |  |
|          | Applicability: All  | c. Submit data on total mortality and viral disease-related mortality to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).  |  |           |  |  |  |  |
| Footnote |   | [82] Viral disease-related mortality count shall include unspecified a  | nd unexplained mortality as it could be related to viral disease.  |           |  |  |  |  |

| 5.1.6         | Indicator: Maximum unexplained mortality rate from each of the previous two production cycles, for farms with total mortality > 6%  Requirement: ≤ 40% of total mortalities  Applicability: All farms with > 6% total mortality in the most recent complete production cycle.  | a. Use records in 5.1.4a to calculate the unexplained mortality rate (%) for the most recent full production cycle. If rate was ≤ 6%, then the requirement of 5.1.6 does not apply. If total mortality rate was > 6%, proceed to 5.1.6b.  b. Calculate the unexplained mortality rate (%) for each of the two production cycles immediately prior to the current cycle. For first audit, calculation must cover one full production cycle immediately prior to the current cycle.  c. Submit data on maximum unexplained mortality to ASC as per Appendix VI for each production cycle.  Note: Farms have the option to integrate their farm-specific mortality reduction program into | NA. Total mortality for the last G: 3.88%  | N/A       |  |  |
|---------------|--|--|--|-----------|--|--|
| 5.1.7         | Indicator: A farm-specific mortalities reduction program that includes defined annual targets for reductions in mortalities and reductions in unexplained mortalities  Requirement: Yes  Applicability: All  | a. Use records in 5.1.4a to assemble a time-series dataset on farm-specific mortalities rates and unexplained mortality rates.  b. Use the data in 5.1.7a and advice from the veterinarian and/or fish health manager to develop a mortalities-reduction program that defines annual targets for reductions in total mortality and unexplained mortality.  | a-b) Mortality rate reduction programme (Corporate leve Finnmark on <10% morts pr.generation). Mortality reduction programs also part of management review for Cermaq Norway and Cermaq Group. Specified in FHP, on site level with concrete objectives for actions to reduce to less than 4,8 % 12 months rolling.  | Compliant |  |  |
|               |  | c. Ensure that farm management communicates with the veterinarian, fish health manager, and staff about annual targets and planned actions to meet targets.  Criterion 5.2 Therapeutic treat   |  |           |  |  |
| Indicator 5.2 | Footnote [83] See Appendix VI for transparency requirements for 5.2.1, 5.2.5, 5.2.6 and 5.2.10.  Instruction to Clients and CABs for Criterion 5.2 - Records Related to Therapeutic Treatments  Indicator 5.2.1 requires that farms maintain detailed record of all chemical and therapeutant use. Those records maintained for compliance with 5.2.1, if all consolidated into a single place, can be used to demonstrate performance against subsequent indicators (5.2.1 through 5.2.10) under Criterion 5.2. |  |  |           |  |  |
| 5.2.1         | Indicator: On-farm documentation that includes, at a minimum, detailed information on all chemicals [84] and therapeutants used during the most recent production cycle, the amounts used (including grams per ton of fish produced), the dates used, which group of fish were treated and against which diseases, proof of proper dosing, and all disease and pathogens detected on the   | a. Maintain a detailed record of all chemical and therapeutant use that includes: - name of the veterinarian prescribing treatment; - product name and chemical name; - reason for use (specific disease) - date(s) of treatment; - amount (g) of product used; - dosage; - t of fish treated; - the WHO classification of antibiotics (also see note under 5.2.8); and - the supplier of the chemical or therapeutant.  | a-b) Allowed usage defined in Fish Health Plan. Antibiotics not used. Treatments done are anaesthetics all under responsible veterinarian prescriptions. Registered in Fishtalk/fish CV including dates for usage, quantity and dosage, withdrawal periods defined and regsitered in Fishtalk.  b) Allowed usage defined in FHP. Other treatments done are anaesthetics all under responsible veterinarian prescriptions. Registered in Fishtalk/fish CV. Dates for usage, | Compliant |  |  |
|               | site  Requirement: Yes  Applicability: All   | b. If not already available, assemble records of chemical and therapeutant use to address all points in 5.2.1a for the previous two production cycles. For first audits, available records must cover one full production cycle immediately prior to the current cycle.  c. Submit information on therapeutant use (data from 5.2.1a) to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).   | quantity and dosage, withdrawal periods defined and registered in Fishtalk. c) Submitted to ASC in email dt.29-11-2019   |           |  |  |
| Footnote      |  | [84] Chemicals used for ti   | I<br>ne treatment of fish.   |           |  |  |

| 5.2.2    | Indicator: Allowance for use of therapeutic treatments that include antibiotics or chemicals that are banned [85] in any of the primary salmon producing or importing countries [86]  Requirement: None  Applicability: All | a. Prepare a list of therapeutants, including antibiotics and chemicals, that are proactively banned for use in food fish for the primary salmon producing and importing countries listed in [86].      b. Maintain records of voluntary and/or mandatory chemical residue testing conducted or commissioned by the farm from the prior and current production cycles. | a) Listed in "Forskrift om grenseverdier for legemidler i næringsmidler" "Norwegian regulation/NFSA. Substances banned in marked " In FHP " oversikt MRL for EU, USA, Japan, Kina, Australia og Russia" last revised in March 2018. Statement dt.18.01.18 - "Medicines and antibiotics allowed by Cermaq Norway". Approved and used substances are referred in FHP. Doc. dated 18.01.2018 with overview of banned substances. List for USA and Japan only permitted substances  b) Listed in "Forskrift om grenseverdier for legemidler i næringsmidler" "Norwegian regulation/NFSA. Substances banned in marked " In FHP" oversikt MRL for EU, USA, Japan, Kina, Australia og Russia" last revised in March 2018. Statement dt.18.01.18 - "Medicines and antibiotics allowed by Cermaq Norway". Approved and used substances are referred in FHP. Doc. dated 18.01.2018 with overview of banned substances. List for USA and Japan only | Compliant         |                        |            |
|----------|---|--|--|-------------------|------------------------|------------|
|          | Approximity. All  | -  | permitted substances  c) Compliance verified and in accordance with requirements and also in accordance with reports and usage recorded in production system Fishtalk.   |                   |                        |            |
| Footnote | [85] "Banned" means proactively prohibited by a governm   | nent entity because of concerns around the substance. A substance banned in any of the prima<br>production or destination of the product. The SAD recomme  | ary salmon-producing or importing countries, as defined here, cannot be used in any salmon fari<br>nds that ASC maintain a list of a banned therapeutants.   | m certified under | the SAD, regardless of | country of |
| Footnote |   | [86] For purposes of this standard, those countries are Norway,  | the UK, Canada, Chile, the United States, Japan and France.  |                   |                        |            |
| 5.2.3    | Indicator: Percentage of medication events that are prescribed by a veterinarian  | a. Obtain prescription for all therapeutant use in advance of application from the farm veterinarian (or equivalent, see [78] for definition of veterinarian).   | a) Record of prescriptions was seen in the internal system. For example: Prescription from 27.09.2019 for Slice Vet EWOS by Åkerblå. The HPR number was verified.  | Compliant         |                        |            |
|          | Requirement: 100% Applicability: All  | b. Maintain copies of all prescriptions and records of veterinarian responsible for all medication events. Records can be kept in conjunction with those for 5.2.1 and should be kept for the current and two prior production cycles.   | b) 100% of treatment events are prescribed by a veterinarian<br>Original presciption in site folder and regsitered in Fishtalk with witholding periods defined in<br>prescription and in Fishtalk.   | ,                 |                        |            |
|          |   | a. Incorporate withholding periods into the farm's fish health management plan (see 5.1.1a).   | a) In Fishtalk, automatically notified/blocked according to degreedays witholdingtime stated   |                   |                        |            |
| 5.2.4    | Indicator: Compliance with all withholding periods after treatments  Requirement: Yes   | b. Compile and maintain documentation on legally-required withholding periods for all treatments used on-farm. Withholding period is the time interval after the withdrawal of a drug from the treatment of the salmon before the salmon can be harvested for use as food.   | in prescription. According to FHMP/VHP on withholding periods defined in Fishtalk and specific presecription.  b) Documented in Fishtalk, automatically notified/blocked according to degreedays witholdingtime stated in prescription.  | Compliant         |                        |            |
|          | Applicability: All  | c. Show compliance with all withholding periods by providing treatment records (see 5.2.1a) and harvest dates for the most recent production cycle.  | c) In Fish Talk where treatment dates are specified and compared to harvest dates. According to FHMP/VHP on withholding periods defined.   |                   |                        |            |
| 5.2.5    | Indicator: Maximum farm level cumulative parasiticide treatment index (PTI) score as calculated according to the formula in Appendix VII  | a. Using farm data for therapeutants usage (52.1a) and the formula presented in Appendix VII, calculate the cumulative parasiticide treatment index (PTI) score for the most recent production cycle. Calculation should be made and updated on an ongoing basis throughout the cycle by farm manager, fish health manager, and/or veterinarian.                       | a) Calculations verified. PTI score calculated according to ASC and reference is made to VR 97,on PTI calculation method confirmed by ASC See www.asc-aqua.org for VR details firmed by ASC dt.20.08.15  | Compliant         |                        |            |
|          | Requirement: PTI score ≤ 13  Applicability: All   | b. Provide the auditor with access to records showing how the farm calculated the PTI score.   | b) PTI score (2018G): 0,34<br>c) Submitted to ASC in email dt.29-11-2019   |                   |                        |            |
|          |   | c. Submit data on farm level cumulative PTI score to ASC as per Appendix VI for each production cycle.   | ay seemineed to 1.50 m chiun du 25 11 2515   |                   |                        |            |

| 5.2.6    | Indicator: For farms with a cumulative PTI ≥ 6 in the most recent production cycle, demonstration that parasiticide load [87] is at least 15% less that of the average of the two previous production cycles  Requirement: Yes  Applicability: All farms with a cumulative PTI ≥ 6 in the most recent production cycle | <ul> <li>a. Review PTI scores from 5.2.5a to determine if cumulative PTI ≥ 6 in the most recent production cycle. If yes, proceed to 5.2.6b; if no, Indicator 5.2.6 does not apply.</li> <li>b. Using results from 5.2.5 and the weight of fish treated (kg), calculate parasiticide load in the most recent production cycle [90].</li> <li>c. Calculate parasiticide load in the two previous production cycles as above (5.2.6b) and compute the average. Calculate the percent difference in parasiticide load between current cycle and average of two previous cycles. For first audit, calculation must cover one full production cycle immediately prior to the current cycle.</li> <li>d. As applicable, submit data to ASC on parasiticide load for the most recent production cycle and the two previous production cycles (Appendix VI).</li> </ul> | NA   | N/A             |                           |              |
|----------|--|---|--|-----------------|---------------------------|--------------|
| Footnote | [87] Parasiticide load = Sum (kg of fish treated x PTI). Rec   | duction in load required regardless of whether production increases on the site. Farms that con   | solidate production across multiple sites within an ABM can calculate reduction based on the co  | mbined parasiti | cide load of the consolic | dated sites. |
|          | Indicator: Allowance for prophylactic use of antimicrobial treatments [88]   | a. Maintain records for all purchases of antibiotics (invoices, prescriptions) for the current and prior production cycles.   |  |                 |                           |              |
| 5.2.7    |  | b. Maintain a detailed log of all medication-related events (see also 5.2.1a and 5.2.3)   | No antibiotics used the recent cycles.   | N/A             |                           |              |
|          | Applicability: All   | c. Calculate the total amount (g) and treatments (#) of antibiotics used during the current and prior production cycles (see also 5.2.9).   |  |                 |                           |              |
| Footnote |  | [88] The designated veterinarian must certify that a pathog   | en or disease is present before prescribing medication.  |                 |                           |              |
|          |  | Note 1: Farms have the option to certify only a portion of the fish or farm site when WHO-list option, farms must request an exemption from the CAB in advance of the audit and provide s fish.  Note 2: It is recommended that the farm veterinarian review the WHO list [see 89] in detail a not inclusive of all drugs.  |  |                 |                           |              |
|          | Indicator: Allowance for use of antibiotics listed as critically important for human medicine by the World   | a. Maintain a current version of the WHO list of antimicrobials critically and highly important for human health [89].  |  |                 |                           |              |
| 5.2.8    | Health Organization (WHO [89])  Requirement: None [90]   | b. If the farm has <u>not</u> used any antibiotics listed as critically important (5.2.8a) in the current production cycle, inform the CAB and proceed to schedule the audit.   |  |                 |                           |              |
|          | Applicability: All   | c. If the farm <u>has</u> used antibiotics listed as critically important (5.2.8a) to treat any fish during the current production cycle, inform the CAB prior to scheduling audit.   | a) Valid WHO CIA list 6th edition 2018, released in 2019 demonstrated for antimicrobials critically and highly important for human health presented.  b-d) No antibiotics used. Audit planned and perforemd accordingly. | N/A             |                           |              |
|          |  |   | 4  |                 |                           |              |
|          |  | d. If yes to 5.2.8c, request an exemption from the CAB to certify only a portion of the farm. Prior to the audit, provide the CAB with records sufficient to establish details of treatment, which pens were treated, and how the farm will ensure full traceability and separation of treated fish through and post- harvest.  |  |                 |                           |              |
| Footnote | T [88]   | Prior to the audit, provide the CAB with records sufficient to establish details of treatment, which pens were treated, and how the farm will ensure full traceability and separation of treated fish through and post- harvest.  | 2009 and is available at: http://www.who.int/foodsafety/publications/antimicrobials-fifth/en/.   |                 |                           |              |

|          | Indicator: Number of treatments [91] of antibiotics over   | Note: for the purposes of Indicator 5.2.9, "treatment" means a single course of medication gione or more pens (or cages).   | ven to address a specific disease issue and that may last a number of days and be applied in   |                  |            |               |
|----------|--|---|--|------------------|------------|---------------|
| 5.2.9    | the most recent production cycle  Requirement: ≤ 3   | a. Maintain records of all treatments of antibiotics (see 5.2.1a). For first audits, farm records must cover the current and immediately prior production cycles in a verifiable statement.   | No antibiotics used the recent cycles.   | N/A              |            |               |
|          | Applicability: All   | b. Calculate the total number of treatments of antibiotics over the most recent production cycle and supply a verifiable statement of this calculation.   |  |                  |            |               |
| Footnote |  | [91] A treatment is a single course medication given to address a   | a specific disease issue and that may last a number of days.   |                  |            |               |
|          |  | Note: Indicator 5.2.10 requires that farms must demonstrate a reduction in load required, reg multiple sites within an ABM can calculate reduction based on the combined antibiotic load o  | gardless of whether production increases on the site. Farms that consolidate production across f the consolidated sites.   |                  |            |               |
|          | Indicator: If more than one antibiotic treatment is used in the most recent production cycle, demonstration that                                   | a. Use results from 5.2.9b to show whether more than one antibiotic treatment was used in the most recent production cycle. If not, then the requirement of 5.2.10 does not apply. If yes, then proceed to 5.2.10b.   |  |                  |            |               |
| 5.2.10   | the antibiotic load [92] is at least 15% less that of the average of the two previous production cycles  Requirement: Yes [93]                     | <ul> <li>b. Calculate antibiotic load (antibiotic load = the sum of the total amount of active ingredient of antibiotic used in kg) for most recent production cycle and for the two previous production cycles. For first audit, calculation must cover one full production cycle immediately prior to the current cycle.</li> </ul> |  | N/A              |            |               |
|          | Applicability: All   | c. Provide the auditor with calculations showing that the antibiotic load of the most recent production cycle is at least 15% less than that of the average of the two previous production cycles.  |  |                  |            |               |
|          |  | d. Submit data on antibiotic load to ASC as per Appendix VI (if applicable) for each production cycle.  |  |                  |            |               |
| Footnote |  | [92] Antibiotic load = the sum of the total amount  | of active ingredient of antibiotics used (kg).   |                  |            |               |
| Footnote | [93] Reduction in load required,   | regardless of whether production increases on the site. Farms that consolidate production acr   | oss multiple sites within an ABM can calculate reduction based on the combined antibiotic load   | of the consolida | ted sites. |               |
|          | Indicator: Presence of documents demonstrating that the farm has provided buyers [94] of its salmon a list of all therapeutants used in production | a. Prepare a procedure which outlines how the farm provides buyers [94] of its salmon with a list of all therapeutants used in production (see 4.4.3b).   | company. Procedure "Prosedyre for utarbeidelse av sporingsdokument på fisk (CV), ID 484, d.t   |                  |            |               |
| 5.2.11   | Requirement: Yes Applicability: All  | b. Maintain records showing the farm has informed all buyers of its salmon about all therapeutants used in production.  | 27.10.2017 Data from "Product control and tracebility" all treatments, included anaesthetics used, dates withdrawal time etc. For example this was verified on a fish CV on harvest cage 2 dated 10-12-2019. | Compliant        |            |               |
|          |  | [94] Buyer: The company or entity to which the farm or the  |  |                  | L          | $\overline{}$ |

|          |  | Criterion 5.3 Resistance of parasites, viruses and b   | acteria to medicinal treatments  |           |   |            |
|----------|--|--|--|-----------|---|------------|
|          |  | Compliance Criteria (Required Client Actions):   | Auditor Evaluation (Required CAB Actions):   |           |   |            |
| 5.3.1    | <b>Indicator</b> : Bio-assay analysis to determine resistance when two applications of a treatment have not produced the expected effect   |  | effect. The SAD Steering Committee recognizes that the "expected effect" will vary with health the pre- and post-treatment condition of fish in order to understand and evaluate the impact minimum of 90 percent reduction in abundance of lice on the farmed fish. To determine a post-treatment lice counts. If the calculated percent reduction in lice is < 90% then the mine whether sea lice have developed resistance. |           |   |            |
|          | Requirement: Yes  Applicability: All   | a. In addition to recording all therapeutic treatments (5.2.1a), keep a record of all cases where the farm uses two successive medicinal treatments.      b. Whenever the farm uses two successive treatments, keep records showing how the farm evaluates the observed effect of treatment against the expected effect of treatment.  | No consecutive treatments done in present cycle without desired effect.  | N/A       |   |            |
|          |  | c. For any result of 5.3.1b that did not produce the expected effect, ensure that a bio-assay analysis of resistance is conducted.  d. Keep a record of all results arising from 5.3.1c.   |  |           |   |            |
|          | Indicator: When bio-assay tests determine resistance is forming, use of an alternative, permitted treatment, or an immediate harvest of all fish on the site  Requirement: Yes  Applicability: All | a. Review results of bio-assay tests (5.3.1d) for evidence that resistance has formed. If yes, proceed to 5.3.2b. If no, then Indicator 5.3.2 is not applicable.  b. When bio-assay tests show evidence that resistance has formed, keep records showing that the farm took one of two actions:  - used an alternative treatment (if permitted in the area of operation); or  - immediately harvested all fish on site.  | No consecutive treatments done in present cycle without desired effect.  | N/A       |   |            |
|          |  | Critarian E A Riscognitu mana  | Compant (OE)   |           |   |            |
|          |  | Criterion 5.4 Biosecurity manage Compliance Criteria (Required Client Actions):  | Auditor Evaluation (Required CAB Actions):   |           | I |            |
| Footnote |  | [95] See Appendix VI for transparency  |  |           |   |            |
|          | Indicator: Evidence that all salmon on the site are a single-year class [96]   | a. Keep records of the start and end dates of periods when the site is fully fallow after harvest.   | a) In Fish Talk and stocking/harvest reports: Fallowing periode between 16G and 18G: 07.08. 2017 to 17.08.2018 (376 days)  |           |   |            |
| 5.4.1    | Requirement: 100% [97] Applicability: All farms except as noted in [97]  | b. Provide evidence of stocking dates (purchase receipts, delivery records) to show that there were no gaps > 6 months for smolt inputs for the current production cycle.  | b) In Fish Talk and stocking/harvest reports. First stocking date 18G: 18-08/20.09.2018 last date of the fish is cages (harvest date): 31.05.2019 c) Ova CVs, Smolt CVs, smolts health cerificates, all information available in Fishtalk.   | Compliant |   |            |
|          |  | -  |  |           |   |            |
| Footnote | [9   | 6] Gaps of up to six months between inputs of smolts derived from the same stripping are according to the same stripping to the same stripping are according to the same stripping are according to the same stripping to the same strippi | eptable as long as there remains a period of time when the site is fully fallow after harvest.   |           |   |            |
| Footnote | [97] Exception is allowed for:   |  |  |           |   | ffluent) . |

| 5.4.2                |   | a. For mortality events logged in 5.1.4a, show evidence that the farm promptly evaluated each to determine whether it was a statistically significant increase over background mortality rate on a monthly basis [98]. The accepted level of significance (for example, p < 0.05) should be agreed between farm and CAB.  |  |                   |                                 |  |  |  |
|----------------------|---|---|--|-------------------|---------------------------------|--|--|--|
|                      | Indicator: Evidence that if the farm suspects an unidentifiable transmissible agent, or if the farm   | b. For mortality events logged in 5.1.4a, record whether the farm did or did not suspect (yes or no) an unidentified transmissible agent.   |  |                   |                                 |  |  |  |
|                      | experiences unexplained increased mortality, [98] the farm has:  1. Reported the issue to the ABM and to the appropriate regulatory authority  2. Increased monitoring and surveillance [99] on the farm and within the ABM  3. Promptly [100] made findings publicly available | c. Proceed to 5.4.2d if, during the most recent production cycle, either: - results from 5.4.2a showed a statistically significant increase in unexplained mortalities; or - the answer to 5.4.2b was 'yes'. Otherwise, Indicator 5.4.2 is not applicable.  | a-e Continuous evaluation. No events of UIA category mortality categorised nor suspected at farm. Ref to indicator 5.1.4a for details of monitoring. System available for prompt publication in website www.cermaq.no.   | Compliant         |                                 |  |  |  |
|                      | Requirement: Yes Applicability: All   | d. If required, ensure that the farm takes and records the following steps:  1) Report the issue to the ABM and to the appropriate regulatory authority;  2) Increase monitoring and surveillance [99] on the farm and within the ABM; and  3) Promptly (within one month) make findings publicly available.  |  |                   |                                 |  |  |  |
|                      |   | e. As applicable, submit data to ASC as per Appendix VI about unidentified transmissible agents or unexplained increases in mortality. If applicable, then data are to be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle).  |  |                   |                                 |  |  |  |
|                      |   | [98] Increased mortality: A statistically significant incr  | rease over background rate on a monthly basis.   |                   |                                 |  |  |  |
| Footnote             | [99] Primary aim of monitoring and surveillance is to investigate whether a new or adapted disease is present in the area.  |   |  |                   |                                 |  |  |  |
| Footnote<br>Footnote |   |   |  |                   |                                 |  |  |  |
|                      |   | [99] Primary aim of monitoring and surveillance is to investigate [100] Within or   |  |                   |                                 |  |  |  |
| Footnote             |   | [100] Within or  Instruction to Clients for Indicator 5.4.3 - Compliance with the OIE Aquatic Animal Health C Indicator 5.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal   | ne month.  ode  Health Code (see http://www.oie.int/index.php?id=171). Compliance is defined as farm d, this means that the farm must have written procedures stating how the farm will initiate an t previously found in the area or had been fully eradicated (area declared free of the   |                   |                                 |  |  |  |
| Footnote             | Indicator: Evidence of compliance [101] with the OIE Aquatic Animal Health Code [102]   | Instruction to Clients for Indicator 5.4.3 - Compliance with the OIE Aquatic Animal Health C Indicator 5.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal practices consistent with the intentions of the Code. For purposes of the ASC Salmon Standar aggressive response to detection of an exotic OIE-notifiable disease on the farm ['exotic' = no pathogen]). An aggressive response will involve, at a minimum, the following actions: - depopulation of the infected site; - implementation of quarantine zones (see note below )in accordance with guidelines from O   | ne month.  ode  Health Code (see http://www.oie.int/index.php?id=171). Compliance is defined as farm d, this means that the farm must have written procedures stating how the farm will initiate an t previously found in the area or had been fully eradicated (area declared free of the IIIE for the specific pathogen; and   |                   |                                 |  |  |  |
| Footnote             | Indicator: Evidence of compliance [101] with the OIE Aquatic Animal Health Code [102] Requirement: Yes  | Instruction to Clients for Indicator 5.4.3 - Compliance with the OIE Aquatic Animal Health C Indicator 5.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal practices consistent with the intentions of the Code. For purposes of the ASC Salmon Standarn aggressive response to detection of an exotic OIE-notifiable disease on the farm ['exotic' = no pathogen]]. An aggressive response will involve, at a minimum, the following actions: - depopulation of the infected site; - implementation of quarantine zones (see note below )in accordance with guidelines from O - additional actions as required under Indicator 5.4.4.  To demonstrate compliance with Indicator 5.4.3, clients have the to option to describe how fadeveloping relevant policies and procedures and integrating them into the farm's fish health in  | ne month.  ode  Health Code (see http://www.oie.int/index.php?id=171). Compliance is defined as farm d, this means that the farm must have written procedures stating how the farm will initiate an t previously found in the area or had been fully eradicated (area declared free of the IIIE for the specific pathogen; and   |                   |                                 |  |  |  |
| Footnote             | Aquatic Animal Health Code [102]  | Instruction to Clients for Indicator 5.4.3 - Compliance with the OIE Aquatic Animal Health C Indicator 5.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal practices consistent with the intentions of the Code. For purposes of the ASC Salmon Standar aggressive response to detection of an exotic OIE-notifiable disease on the farm ['exotic' = no pathogen]]. An aggressive response will involve, at a minimum, the following actions: - depopulation of the infected site; - implementation of quarantine zones (see note below )in accordance with guidelines from O - additional actions as required under Indicator 5.4.4.  To demonstrate compliance with Indicator 5.4.3, clients have the to option to describe how fadeveloping relevant policies and procedures and integrating them into the farm's fish health in Note: The Steering Committee recognizes that establishment of quarantine zones will likely in   | the month.  In the month is defined as farm and the farm must have written procedures stating how the farm will initiate an the previously found in the area or had been fully eradicated (area declared free of the for the specific pathogen; and for the specific pathogen; and for the month is the month in the intentions of the OIE Aquatic Animal Health Code by management plan.  |                   |                                 |  |  |  |
| Footnote             | Aquatic Animal Health Code [102]  Requirement: Yes  | Instruction to Clients for Indicator 5.4.3 - Compliance with the OIE Aquatic Animal Health C Indicator 5.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal practices consistent with the intentions of the Code. For purposes of the ASC Salmon Standarn aggressive response to detection of an exotic OIE-notifiable disease on the farm ['exotic' = no pathogen]]. An aggressive response will involve, at a minimum, the following actions: - depopulation of the infected site; - implementation of quarantine zones (see note below )in accordance with guidelines from O - additional actions as required under Indicator 5.4.4.  To demonstrate compliance with Indicator 5.4.3, clients have the to option to describe how fadeveloping relevant policies and procedures and integrating them into the farm's fish health in Note: The Steering Committee recognizes that establishment of quarantine zones will likely in not necessarily all, of the ABM.  a. Maintain a current version of the OIE Aquatic Animal Health Code on site or ensure staff  | the month.  In the month.  In the month.  In the month.  In the alth Code (see http://www.oie.int/index.php?id=171). Compliance is defined as farm d, this means that the farm must have written procedures stating how the farm will initiate an t previously found in the area or had been fully eradicated (area declared free of the life for the specific pathogen; and for the specific pathogen; and for the specific pathogen; and for the ole Aquatic Animal Health Code by management plan.  Incorporate mandatory depopulation of sites close to the infected site and affect some, though a) OIE AAHC presented and awareness demonstrated.  Awareness of OIE aquatic Animal Health Code. VHP "Helseplan for matfiskanlegg" refers to  | Compliant         |                                 |  |  |  |
| Footnote             | Aquatic Animal Health Code [102]  Requirement: Yes  | Instruction to Clients for Indicator 5.4.3 - Compliance with the OIE Aquatic Animal Health C Indicator 5.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal practices consistent with the intentions of the Code. For purposes of the ASC Salmon Standar aggressive response to detection of an exotic OIE-notifiable disease on the farm ['exotic' = no pathogen]). An aggressive response will involve, at a minimum, the following actions: - depopulation of the infected site; - implementation of quarantine zones (see note below )in accordance with guidelines from O - additional actions as required under Indicator 5.4.4.  To demonstrate compliance with Indicator 5.4.3, clients have the to option to describe how fadeveloping relevant policies and procedures and integrating them into the farm's fish health in Note: The Steering Committee recognizes that establishment of quarantine zones will likely in not necessarily all, of the ABM.  a. Maintain a current version of the OIE Aquatic Animal Health Code on site or ensure staff have access to the most current version.  b. Develop policies and procedures as needed to ensure that farm practices remain consistent with the OIE Aquatic Animal Health Code (5.4.3a) and with actions required under                     | ne month.  ode  Health Code (see http://www.oie.int/index.php?id=171). Compliance is defined as farm d, this means that the farm must have written procedures stating how the farm will initiate an t previously found in the area or had been fully eradicated (area declared free of the life for the specific pathogen; and for many the procedure are consistent with the intentions of the OIE Aquatic Animal Health Code by management plan.  Incorporate mandatory depopulation of sites close to the infected site and affect some, though a) OIE AAHC presented and awareness demonstrated.  Awareness of OIE aquatic Animal Health Code.  b) Internal procedure in Intelex on practices in accordance with OIE AHC" Described in VHP, notification of diseases".  Statment from Cermaq, Adhernce to the OIE Aquatiq, Health Code" d.t 18.01.2018, signed   | Compliant         |                                 |  |  |  |
| Footnote             | Aquatic Animal Health Code [102]  Requirement: Yes  Applicability: All  | Instruction to Clients for Indicator 5.4.3 - Compliance with the OIE Aquatic Animal Health C Indicator 5.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal practices consistent with the intentions of the Code. For purposes of the ASC Salmon Standari aggressive response to detection of an exotic OIE-notifiable disease on the farm ['exotic' = no pathogen]]. An aggressive response will involve, at a minimum, the following actions:  - depopulation of the infected site;  - implementation of quarantine zones (see note below )in accordance with guidelines from O - additional actions as required under Indicator 5.4.4.  To demonstrate compliance with Indicator 5.4.3, clients have the to option to describe how fadeveloping relevant policies and procedures and integrating them into the farm's fish health in Note: The Steering Committee recognizes that establishment of quarantine zones will likely in not necessarily all, of the ABM.  a. Maintain a current version of the OIE Aquatic Animal Health Code on site or ensure staff have access to the most current version.  b. Develop policies and procedures as needed to ensure that farm practices remain consistent with the OIE Aquatic Animal Health Code (5.4.3a) and with actions required under indicator 5.4.4. | ne month.  ode  Health Code (see http://www.oie.int/index.php?id=171). Compliance is defined as farm d, this means that the farm must have written procedures stating how the farm will initiate an t previously found in the area or had been fully eradicated (area declared free of the life for the specific pathogen; and  arm practices are consistent with the intentions of the OIE Aquatic Animal Health Code by management plan.  accorporate mandatory depopulation of sites close to the infected site and affect some, though  a) OIE AAHC presented and awareness demonstrated.  Awareness of OIE aquatic Animal Health Code. VHP "Helseplan for matfiskanlegg" refers to OIE Aquatic Animal Health Code.  b) Internal procedure in Intelex on practices in accordance with OIE AHC" Described in VHP, notification of diseases, contingency plan (Beredskapsplan for Cermaq, d.t. 27.03.2018, ID 1154) "Notification of diseases".  Statment from Cermaq, Adhernce to the OIE Aquatiq, Health Code" d.t 18.01.2018, signed fish health manager Karl Fredrik Ottem  c) Confirmed during interviews   | ·                 | which includes denonulating the |  |  |  |
| Footnote             | Aquatic Animal Health Code [102]  Requirement: Yes  Applicability: All  [101] Compliance is defined as farm practices consister   | Instruction to Clients for Indicator 5.4.3 - Compliance with the OIE Aquatic Animal Health C Indicator 5.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal practices consistent with the intentions of the Code. For purposes of the ASC Salmon Standari aggressive response to detection of an exotic OIE-notifiable disease on the farm ['exotic' = no pathogen]]. An aggressive response will involve, at a minimum, the following actions:  - depopulation of the infected site;  - implementation of quarantine zones (see note below )in accordance with guidelines from O - additional actions as required under Indicator 5.4.4.  To demonstrate compliance with Indicator 5.4.3, clients have the to option to describe how fadeveloping relevant policies and procedures and integrating them into the farm's fish health in Note: The Steering Committee recognizes that establishment of quarantine zones will likely in not necessarily all, of the ABM.  a. Maintain a current version of the OIE Aquatic Animal Health Code on site or ensure staff have access to the most current version.  b. Develop policies and procedures as needed to ensure that farm practices remain consistent with the OIE Aquatic Animal Health Code (5.4.3a) and with actions required under indicator 5.4.4. | the month.  In the month.  In this means that the farm must have written procedures stating how the farm will initiate an to previously found in the area or had been fully eradicated (area declared free of the life for the specific pathogen; and summary and and sum | se on the farm, v |                                 |  |  |  |

| 5.4.4    | Indicator: If an OIE-notifiable disease [103] is confirmed on the farm, evidence that:  1. the farm has, at a minimum, immediately culled the pen(s) in which the disease was detected  2. the farm immediately notified the other farms in the ABM [104]  3. the farm and the ABM enhanced monitoring and conducted rigorous testing for the disease  4. the farm promptly [105] made findings publicly available  Requirement: Yes  Applicability: All | c. If an OIE-notifiable disease was confirmed on the farm (see 5.4.4b), then retain documentary evidence to show that the farm:  1) immediately culled the pen(s) in which the disease was detected;  2) immediately notified the other farms in the ABM [104]  | a) Fish health manager has the responsibility to inform governments if notifiable diseases occur. b) No occurrence of OIE-notifiable diseases. c) No occurrence of OIE-notifiable diseases. d) No occurrence of OIE-notifiable diseases. re) No occurrence of OIE-notifiable diseases.  | Compliant         |                         |        |
|----------|--|---|---|-------------------|-------------------------|--------|
|          |  | -   |   |                   |                         |        |
| Footnote | [103] At the time of publication of the final draft sta  | ndards, OIE-notifiable diseases relevant to salmon aquaculture were: Epizootic haematopoietic<br>(Gyrodactylus  |   | orrhagic septicen | nia (VHS) and Gyrodacty | ylosis |
|          |  |   |   |                   |                         |        |
| Footnote |  | [104] This is in addition to any notifications to regulatory bodies re  |   |                   |                         |        |
| Footnote |  | Social requirements in the standards shall be audited by an individual who is a lea   |   |                   |                         |        |
|          |  | PRINCIPLE 6: DEVELOP AND OPERATE FARMS IN A S   | OCIALLY RESPONSIBLE MANNER  |                   |                         |        |
|          |  | 6.1 Freedom of association and collecti   | ve bargaining [106]<br>ce Criteria  |                   |                         |        |
| Footnote | [106] Pargain  | •   |   | nents             |                         |        |
| 6.1.1    | Indicator: Evidence that workers have access to trade unions (if they exist) and union representative(s) chosen by themselves without managerial interference  Requirement: Yes  Applicability: All  Indicator: Evidence that workers are free to form organizations, including unions, to advocate for and protect their rights   | 50% of employees organised.  b) Worker Trade union (TU) representative was elected during meeting of employees. c) Worker representative have meetings with management for coordination. The workers are request visits to sites will be organised without obstacles. d) Interview has confirmed information. The TU representative has possibility to visit farms. N | ers have fully implemented right of Freedom of association. Employer makes no interference to decisions of workers.  If employees organised.  If the Trade union (TU) representative was elected during meeting of employees.  If the representative have meetings with management for coordination. The workers are visited case by case. The rest of the time open channel by phone and e-mail. If there is |                   |                         |        |
|          | Requirement: Yes  Applicability: All  Indicator: Evidence that workers are free and able to  | c) Interview confirms communication with exception of one temporary worker. All workers confirmed free possibilities to be organised.   |   | Compliant         |                         |        |
| 6.1.3    | bargain collectively for their rights  | a) Trade union representative confirms no outstanding cases against the farm site manageme  | nt for violations to the right of Freedom of associations.  | Compliant         |                         |        |
| 0.1.3    | Requirement: Yes   | b) Collective bargaining is implemented via consultations and Tariff agreement with Trade uni   | ons.  | Compilant         |                         |        |
|          | Applicability: All   | c) Now in power Tariff agreement for period 2016 end 2018.  |   |                   |                         |        |

|   | Criterion 6.2 Child labor  |  |   |   |  |  |  |  |
|---|--|--|---|---|--|--|--|--|
|   | Compliance Criteria  |  |   |   |  |  |  |  |
| Requirement: None   | b) At the audit time none of young workers are employed.   | Compliant  |   |   |  |  |  |  |
| [107] Child: Any person under 15 years of age. A  | A higher age would apply if the minimum age law of an area stipulates a higher age for work or mandatory schooling. Minimum age may be 14 if the country allows it under the developing co   | ountry exception   | s in ILO convention 138   | 3.  |  |  |  |  |
|   | [108] Child Labor: Any work by a child younger than the age specified in the definition of a child.  |  |   |   |  |  |  |  |
| ndicator: Percentage of young workers [109] that are protected [110]  Requirement: 100%  Applicability: All   | b) Identification process in place. c) Time sheets are maintained. d) No young workers employed during the audit to be interviewed. e) Personal risk assessment was done for young workers indicating forbidden works as per procedure for Young workers ID 147 with risk evaluation template ID 371. The assessment of young workers of last period is available.   | Compliant  |   |   |  |  |  |  |
|   | [109] Young Worker: Any worker between the age of a child, as defined above, and under the age of 18.  |  |   |   |  |  |  |  |
| [110] Protected: Workers between 15 and 18 year   | ars of age will not be exposed to hazardous health and safety conditions; working hours shall not interfere with their education and the combined daily transportation time and school time,   | and work time sh   | nall not exceed 10 hours  | S.  |  |  |  |  |
| [17   | 11] Hazard: The inherent potential to cause injury or damage to a person's health (e.g., unequipped to handle heavy machinery safely, and unprotected exposure to harmful chemicals).  |  |   |   |  |  |  |  |
| [112] Hazardous work: Work that, by its na  | ture or the circumstances in which it is carried out, is likely to harm the health, safety or morals of workers (e.g., heavy lifting disproportionate to a person's body size, operating heavy mach  | inery, exposure  | to toxic chemicals).  |   |  |  |  |  |
|   | Criterion 6.3 Forced, bonded or compulsory labor   |  |   |   |  |  |  |  |
| ndicator: Number of incidences of forced, [113] bonded<br>114] or compulsory labor<br>Requirement: None<br>Applicability: All   | a) Contracts are understood. Contracts do not lead to workers being indebted. Trainings are paid by the company without obligations from workers to compensate if they are leaving the company.  b) After shift workers are free to leave c) No cases identified.  d) No cases identified.  e) No cases identified.  | Compliant  |   |   |  |  |  |  |
| [113] Forced (Compulsory) labor: All work or service that is extracted from any person under the menace of any penalty for which a person has not offered himself/herself voluntarily or for which such work or service is demanded as a repayment of debt. "Penalty" can imply monetary sanctions, physical punishment, or the loss of rights and privileges or restriction of movement (e.g., withholding of identity documents). |  |  |   |   |  |  |  |  |
|   |  |  |   |   |  |  |  |  |
| nor Ree   | equirement: None  pplicability: All except as noted in [107]  [107] Child: Any person under 15 years of age. A  dicator: Percentage of young workers [109] that are rotected [110]  equirement: 100%  pplicability: All  [110] Protected: Workers between 15 and 18 ye  [1  [112] Hazardous work: Work that, by its na  dicator: Number of incidences of forced, [113] bonded 14] or compulsory labor  equirement: None  pplicability: All | aguirement: None   10   Requirements of standard applies   10   Rt the audit time none of young workers are employed.   1007   Chief. Any person under 15 years of age. A higher age would apply if the minimum age bas of an area stipulates a higher age for work or mandatory schooling. Minimum age may be 14 if the country allows it under the developing or | againement: None on Agraphements of standard applies equirements (None of Young workers are employed.    1007   Child: Any person under 15 years of age. A higher age would apply if the minimum age law of an area stipulates a higher age for work or mandatory schooling, Minimum age may be 14 if the country allows it under the developing country exception.    1007   Child: Any person under 15 years of age. A higher age would apply if the minimum age law of an area stipulates a higher age for work or mandatory schooling, Minimum age may be 14 if the country allows it under the developing country exception.    1008   Child Labor. Any work by a child younger than the age specified in the definition of a child.   2 | againstance: None of plants and sequences of standard applies agreements. Young supprises are employed.    Option of the procedure of the plants of the process of age. A higher age conduct or in plants   DITION CHIEF Amplies and the process of age. A higher age would apply if the minimum age law of an are stipulates higher age for work or mandatory schooling. Minimum age may be 14 if the country allows it under the developing country exceptions in LD convention 13 if the procedure for Young workers (D 167 nov. 12, 2007-65-30 is developed. There are personal training to be done for each young worker indicating allowed and forbidden works. |  |  |  |  |

|          |   | Criterion 6.4 Discrimination [118]   |                      |                          |               |
|----------|---|--|----------------------|--------------------------|---------------|
|          |   | Compliance Criteria  |                      |                          |               |
| Footnote | [115] Discrimination: Any distinction, exclusion or prefere   | nce that has the effect of nullifying or impairing equality of opportunity or treatment. Not every distinction, exclusion or preference constitutes discrimination. For instance, a merit- or performance discriminatory. Positive discrimination in favor of people from certain underrepresented groups may be legal in some countries.  | rmance-based pa      | ay increase or bonus is  | not by itself |
| 6.4.1    | Indicator: Evidence of comprehensive [116] and proactive anti-discrimination policies, procedures and practices  Requirement: Yes  Applicability: All | a) Ethical guidelines (last revision 2015-12-14) and Whistle blowing procedure (2014-05-27). b) Whistle blowing procedure (2017-08-16) is implemented. No discrimination cases reported. The complaints are managed according Conflict management procedure ID 429 last rev. 2017 02-25. c) The equal access to job opportunities is provided. The equal pay principle is followed. The job vacancies are published on intranet. The Tariff agreement defines local salary grades and payment condition equal for all employees to get same salary for the same job and taking into consideration experience. d) The trainings for site manager and workers are included in competence list. | Compliant            |                          |               |
| Footnote | [116] Employers shall have written anti-discrimination pol  | icies stating that the company does not engage in or support discrimination in hiring, remuneration, access to training, promotion, termination or retirement based on race, caste, national o<br>union membership, political affiliation, age or any other condition that may give rise to discrimination.  | rigin, religion, dis | sability, gender, sexual | orientation,  |
| 6.4.2    | Indicator: Number of incidences of discrimination  Requirement: None  Applicability: All  | a) No cases identified. b) The rights of employees are respected. During interview no discrimination cases reported  | Compliant            |                          |               |
|          |   | Criterion 6.5 Work environment health and safety  Compliance Criteria  |                      |                          |               |
|          | Indicator: Percentage of workers trained in health and safety practices, procedures [117] and policies on a yearly basis                              | a) Documentation is developed and is available in working places. b) Employees know emergency respond procedures. The training records are kept on site.   |                      |                          |               |
| 6.5.1    | Requirement: 100%  Applicability: All   | Employees are trained and annual refreshment trainings. Procedure for conducting the drills (ID 1126) is implemented. c) Safety drills were organised on site. 2019-April for both shifts separately.  | Compliant            |                          |               |
| Footnote |   | [117] Health and safety training shall include emergency response procedures and practices.  |                      |                          |               |
| 6.5.2    | Indicator: Evidence that workers use Personal Protective<br>Equipment (PPE) effectively<br>Requirement: Yes<br>Applicability: All                     | a) The List of health and safety hazards is maintained in H&S risk assessment documentation. b) PPE is provided. c) The training in proper use of PPE use is done. d) Interview confirms PPE management.   | Compliant            |                          |               |
| 6.5.3    | Indicator: Presence of a health and safety risk assessment and evidence of preventive actions taken Requirement: Yes Applicability: All               | a) The procedure for risk assessment No 366 is implemented. b) Employees are trained and annual refreshment trainings are organised during risk analysis. Training records are maintained. Last evaluation of the H&S risks and the training for employees took place April 2018 The safe job analysis is done prior to all major works on the site with definitions of risks and their management measures. c) Monthly H&S committee meetings are discussing the need to update the procedures based on practices or OHS incidents accidents. Minutes of meetings are maintained. The site manager has possibility to suggest changes to procedure.   | Compliant            |                          |               |

| 6.5.4    | Indicator: Evidence that all health- and safety-related accidents and violations are recorded and corrective actions are taken when necessary  Requirement: Yes  Applicability: All  | a) Company level electronic database INTELEX is used to report for all H&S and environmental accidents and near accidents. Monthly H&S report is generated. Sites have monthly discussions on H&S accidents, incidents and near misses form site and the report. b) Company level electronic database INTELEX is managed with records for all H&S and environmental accidents and near accidents and their investigation. c) Corrective action plans are managed by INTELEX. d) The analysis is understood and improvements are implemented.                                 | Compliant         |         |   |
|----------|--|--|-------------------|---------|---|
| 6.5.5    | Indicator: Evidence of employer responsibility and/or proof of insurance (accident or injury) for 100% of worker costs in a job-related accident or injury when not covered under national law  Requirement: Yes  Applicability: All | a) Insurance is provided. Temporary employees are provided with accident insurance.  | Compliant         |         |   |
| 6.5.6    | Indicator: Evidence that all diving operations are conducted by divers who are certified  Requirement: Yes  Applicability: All   | Note: If the farm outsources its diving operations to an independent company, the farm shall ensure that auditors have access to specified information sufficient to demonstrate compliance with Indicator 6.5.6. It is the farm's responsibility to obtain copies of relevant documentation (e.g. certificates) from the dive company.  a) The diving activities procedure is in use. The records of diving activities maintained on site. The check list was introduced to check information/documents prior to diving.  b) Copies of divers' certificates are maintained. | Compliant         |         |   |
|          |  | Criterion 6.6 Wages  |                   |         |   |
|          |  | Compliance Criteria  |                   | -       |   |
| 6.6.1    | Indicator: The percentage of workers whose basic wage [118] (before overtime and bonuses) is below the minimum wage [119]  | a) Documents are available at the company. The Tariff agreement sets the minimum salary.   | Compliant         |         |   |
|          | Requirement: 0 (None) Applicability: All   | b) Wages meet legal minimum wage according Tariff agreement and contracts with local trade unions. c) The information is available per employee. Documentary evidence is in place.   | ·                 |         |   |
| Footnote |  | [118] Basic wage: The wages paid for a standard working week (no more than 48 hours).  |                   |         |   |
| Footnote |  | [119] If there is no legal minimum wage in a country, basic wages must meet the industry-standard minimum wage.  |                   |         |   |
| 6.6.2    | Indicator: Evidence that the employer is working toward the payment of basic needs wage [120]  | a) The assessment of cost of living were conducted.  | Compliant         |         |   |
|          | Requirement: Yes Applicability: All  | b) The calculations and comparison are done. The comparison with wages was conducted. The company wages are above BNW.  c) Wages exceed basic needs wage.  | ·                 |         |   |
|          | *** *** *** ****   |  |                   |         |   |
| Footnote | [120] Basic needs wage: A wa   | ge that covers the basic needs of an individual or family, including housing, food and transport. This concept differs from a minimum wage, which is set by law and may or may not cover the l   | basic needs of wo | orkers. |   |
|          | Indicator: Evidence of transparency in wage-setting and rendering [121]  | a) The contracts of employees has appendix defining the bonus application. The bonuses are defined in Bonus document. b) The clearly understood by workers.  |                   |         |   |
| 6.6.3    | Requirement: Yes   | c) Wages are transferred to personal bank accounts   | Compliant         |         |   |
|          | Applicability: All   | d) Interview has confirmed information about wages   |                   |         |   |
| Footpot: |  | [121] Payments shall be rendered to workers in a convenient manner.  |                   |         | _ |
| Footnote |  | [121] Fayments shan be remoted to workers in a convenient manner.  |                   |         |   |

|          | Criterion 6.7 Contracts (labor) including subcontracting   |  |           |  |  |  |  |  |  |
|----------|--|--|-----------|--|--|--|--|--|--|
|          |  | Compliance Criteria  |           |  |  |  |  |  |  |
| 6.7.1    | Indicator: Percentage of workers who have contracts [122]  Requirement: 100%  Applicability: All   | a) Contracts available, records maintained. b) No evidences c) Interview confirms legal employment by contracts.   | Compliant |  |  |  |  |  |  |
| Footnote |  | relationship for the purpose of avoiding payment of regular wages or the provision of legally required benefits, such as health and safety protections.  |           |  |  |  |  |  |  |
| 6.7.2    | Indicator: Evidence of a policy to ensure social compliance of its suppliers and contractors  Requirement: Yes  Applicability: All   | a) The Ethical and corporate responsibility policy has statements of evaluation of suppliers and subcontractors.  Procedure for Classification of suppliers ID 644 is used for dividing to critical or non-critical suppliers.  b) Supplier qualification procedure ID316 applies. The evaluation criteria is defined in procedure of classification of suppliers and sub-contractors.  The suppliers evaluation matrix was created.  c) The reference to Ethical guidelines for suppliers was sent to suppliers and subcontractors. | Compliant |  |  |  |  |  |  |
|          |  | Criterion 6.8 Conflict resolution  |           |  |  |  |  |  |  |
|          |  | Compliance Criteria  |           |  |  |  |  |  |  |
| 6.8.1    | Indicator: Evidence of worker access to effective, fair and confidential grievance procedures  Requirement: Yes  | a) Procedure of Conflict resolution defines ways of communication of conflicts. Whistle blowing procedure is developed, which is included in Personnel handbook. Conflict management procedure ID 429 is defined. b) Workers are familiar with procedures for conflict resolution.   | Compliant |  |  |  |  |  |  |
|          | Applicability: All   | c) The interviews are confirming the information above.  |           |  |  |  |  |  |  |
| 6.8.2    | Indicator: Percentage of grievances handled that are addressed [123] within a 90-day timeframe  Requirement: 100%  | a) The system of handling of grievances, complaints and labour conflicts is in place and effective. b) The system of handling of grievances, complaints and labour conflicts is in place. Documentation is maintained. The conflict had place. Management had applied all necessary procedures and addressed the conflict in good way.   | Compliant |  |  |  |  |  |  |
|          | Applicability: All   | c) Documentation is maintained. The case was addressed in time.  |           |  |  |  |  |  |  |
| Footnote |  | [123] Addressed: Acknowledged and received, moving through the company's process for grievances, corrective action taken when necessary.   |           |  |  |  |  |  |  |
|          |  | Criterion 6.9 Disciplinary practices  Compliance criteria  |           |  |  |  |  |  |  |
| 6.9.1    | Indicator: Incidences of excessive or abusive disciplinary actions  Requirement: None  | a) The employer does not use excessive or abusive disciplinary actions. No cases of improper disciplinary behaviour, no warnings were issued. b) No cases identified.  | Compliant |  |  |  |  |  |  |
|          | Applicability: All   | c) Interview has confirmed no cases of improper disciplinary behaviour.  |           |  |  |  |  |  |  |
| Feetwet  |  | [124] Mental Abuse: Characterized by the intentional use of power, including verbal abuse, isolation, sexual or racial harassment, intimidation or threat of physical force.   |           |  |  |  |  |  |  |
| Footnote |  | (22), mental roose. entrocensed by the intentional use of power, moleculing verbal abuse, isolation, sexual or facial narassment, intiniuation of threat of physical force.  |           |  |  |  |  |  |  |
| 6.9.2    | Indicator: Evidence of a functioning disciplinary action policy whose aim is to improve the worker [125]  Requirement: Yes  Applicability: All   | a) Disciplinary policy is defined in Personal handbook. The verbal and written disciplinary warnings may be used in case of misbehaviour during the work. One written warning was issued for oversleeping. b) Company has the working disciplinary system. Workers confirmed understanding and fairness of disciplinary policy. Documentation is maintained.   | Compliant |  |  |  |  |  |  |
| Footnote | [125] If disciplinary action is required, progressive verbal and written warnings shall be engaged. The aim shall always be to improve the worker: dismissal shall be the last resort. Policies for bonuses, incentives, access to training and promotions are clearly stated and understood, and not used |  |           |  |  |  |  |  |  |

|          | Criterion 6.10 Working hours and overtime  |  |           |  |   |  |  |
|----------|--|--|-----------|--|---|--|--|
|          |  | Compliance criteria  |           |  |   |  |  |
|          |  | Note: Working hours, night work and rest periods for workers in agriculture should be in accordance with national laws and regulations or collective agreements (e.g. The Safety and Health in Agriculture Convention, 2001). Additional information can be found on the website of the International Labour Organization (www.ilo.org). |           |  |   |  |  |
|          | Indicator: Incidences, violations or abuse of working hours and overtime laws [126]  | a) The time scheme 1:1 is used. (7 days x 10 hours and 7 days-off). It is approved by ASC. The OT limits are defined by Labour law and Tariff agreement.   |           |  |   |  |  |
|          | Requirement: None  | b) Workers are registering working hours daily into Capitech system. Site manager approves. Working hours are within allowed limits.   | Compliant |  |   |  |  |
|          | Applicability: All   | c) The work in shifts is applied and agreed by workers.  d) Interview has confirmed no abuse of working time and overtime amounts.   |           |  |   |  |  |
|          |  |  |           |  |   |  |  |
| Footnote | [126] In   | n cases where local legislation on working hours and overtime exceed internationally accepted recommendations (48 regular hours, 12 hours overtime), the international standards will apply  | 1.        |  |   |  |  |
|          | Indicator: Overtime is limited, voluntary [127], paid at a premium rate [128] and restricted to exceptional circumstances  | a) Overtime for workers is paid at premium rate as could be seen in payslips.  |           |  |   |  |  |
| 6.10.2   | Requirement: Yes   | b) The procedure for working hours was developed. The timesheets are managed in Capitech system.   | Compliant |  |   |  |  |
|          | requirement. 163   | c) Interviews have confirmed voluntary overtime.   |           |  |   |  |  |
|          | Applicability: All except as noted in [130]  |  |           |  |   |  |  |
| Footnote |  | [127] Compulsory overtime is permitted if previously agreed to under a collective bargaining agreement.  |           |  |   |  |  |
| Footnote |  | [128] Premium rate: A rate of pay higher than the regular work week rate. Must comply with national laws/regulations and/or industry standards.  |           |  |   |  |  |
|          |  | Criterion 6.11 Education and training  |           |  | 1 |  |  |
|          |  | Compliance criteria  |           |  |   |  |  |
|          | Indicator: Evidence that the company regularly performs training of staff in fish husbandry, general farm and fish escape management and health and safety procedures  | a) Company encourages the workers to participate in additional training based on Work environment policy. The Tariff agreement define the support that company would provide for employees.  | Compliant |  |   |  |  |
| 6.11.1   | Requirement: Yes   | b) Training records maintained on site and Intelex system.   | Compliant |  |   |  |  |
|          | Applicability: All   | c) Interview confirms that company supports education initiatives.   |           |  |   |  |  |
|          |  | Criterion 6.12 Corporate policies for social responsibility  |           |  |   |  |  |
|          |  | Compliance criteria  |           |  |   |  |  |
|          | Indicator: Demonstration of company-level [129] policies in line with the standards under 6.1 to 6.11 above  | a) Company level policies are available and are in line with requirements of the standard. b) Policies are approved.   |           |  |   |  |  |
| 6.12.1   | Requirement: Yes   | c) The policies cover all company operations.  | Compliant |  |   |  |  |
|          | Applicability: All   |  |           |  |   |  |  |
|          |  | d) The access is provided.   |           |  |   |  |  |
| Footnote | [129] Applies to the headquarters of the company in a region or country where the site applying for certification is located. The policy shall relate to all of the company's operations in the region or country, including grow-out, smolt production and processing facilities. |  |           |  |   |  |  |

| PRINCIPLE 7: BE A GOOD NEIGHBOR AND CONSCIENTIOUS CITIZEN  Criterion 7.1 Community engagement  Compliance Criteria  a) The invitation was sent in 08.01.2019 to interested parties. The meeting was organised on 2019-02-19. 2 people attended in the meeting.  Indicator: Evidence of regular and meaningful [130] b) Consultations have included main points required by the standard.  consultation and engagement with community c) The participants from local community have participated in consultation. They were invited to contribute to agenda.  |                           |          |
|--|---------------------------|----------|
| a) The invitation was sent in 08.01.2019 to interested parties. The meeting was organised on 2019-02-19. 2 people attended in the meeting.  Indicator: Evidence of regular and meaningful [130]  b) Consultations have included main points required by the standard.  |                           |          |
| a) The invitation was sent in 08.01.2019 to interested parties. The meeting was organised on 2019-02-19. 2 people attended in the meeting.  Indicator: Evidence of regular and meaningful [130]  b) Consultations have included main points required by the standard.  |                           |          |
| Indicator: Evidence of regular and meaningful [130] b) Consultations have included main points required by the standard.   |                           |          |
|  |                           |          |
| representatives and organizations  |                           |          |
| 7.1.1 d) Consultations have included main points required by the standard. Potential health risks of therapeutic treatments were mentioned during consultation meeting.  Requirement: Yes  d) Consultations have included main points required by the standard. Potential health risks of therapeutic treatments were mentioned during consultation meeting.  The risks related to external environment and people were well defined.  |                           |          |
| Applicability: All e) The invitation and minutes of meeting are available.   |                           |          |
| f) The extensive communication is completed during initial certification stage. No inquiries received. The interview was not organised due to logistics and time limitations.  |                           |          |
| Footnote [130] Regular and meaningful: Meetings shall be held at least bi-annually with elected representatives of affected communities. The agenda for the meetings should in part be set by the community representatives. Participatory Social Impact Assessment met here.  | nods may be one option to | consider |
| Indicator: Presence and evidence of an effective [131] policy and mechanism for the presentation, treatment and resolution of complaints by community stakeholders and organizations  7.1.2  Applicability: All  Indicator: Presence and evidence of an effective [131] policy and mechanism for the presentation, treatment and resolution of complaints by community stakeholders and organizations  b) No complaints related to farm.  Complian   | :                         |          |
| Footnote [131] Effective: In order to demonstrate that the mechanism is effective, evidence of resolutions of complaints can be given.   | •                         |          |
| Indicator: Evidence that the farm has posted visible notice [132] at the farm during times of therapeutic treatments and has, as part of consultation with communities under 7.1.1, communicated about potential health risks from treatments  7.1.3 Requirement: Yes  Applicability: All  Applicability: Ali  App |                           |          |
| Footnote [132] Signage shall be visible to mariners and, for example, to fishermen passing by the farm.  |                           |          |

### Criterion 7.2 Respect for indigenous and aboriginal cultures and traditional territories Compliance Criteria Instruction to Clients and CABs on Criterion 7.2 - Traditional Territories of Indigenous Groups The ASC Salmon Standard requires that farms must be respectful of the traditional territiories of indigenous groups. The Indicators listed under Criterion 7.2 were designed to fulfill this purpose in a manner consistent with the United Nations Declaration on the Rights of Indigenous Peoples. In many locales, the territorial boundaries of indigenous groups have a defined legal status according to local or national law. In such cases, it is straightforward to know whether a farm is operating in close proximity to indigenous people. However, when boundaries of indigenous territories are undefined or unknown, there is no simple way to establish whether the farm is operating in close proximity to indigenous groups. Here ASC provides the following guidance. The intent behind the ASC Salmon Standard is that the farm will identify all neighboring groups who are potentially negatively impacted by the farm's activities. The actual physical distance between the farm and an indigenous group is less important than understanding whether the farm is having a detrimental impact upon its neighbors. Effective community consultations are one of the best ways to identify such impacts to neighbor groups. Through a transparent process of consultation, indigenous groups who are put under "stress" by the farm will identify themselves and voice their concerns about the nature of the farm's impacts. Continued consultations between farm and neighbors should create a forum where any key issue can be discussed and resolved. a) The application to have permission to operate covered identification and hearing of indigenous groups. The Sammi group of rain deer owners present in the area. Indicator: Evidence that indigenous groups were b) Farm management demonstrates an understanding of relevant local and national laws and regulations. No consultations are required. consulted as required by relevant local and/or national c) No specific consultations are required. laws and regulations 7.2.1 Requirement: Yes d) The extensive communication is completed during licence processing and initial certification stage. No inquiries received. The interview was not organised due to logistics and time Compliant Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal e) It was communicated during the application processing to start the sites. Sami representatives were invited, but no participants nor enquires were presented. people [133] f) It was communicated during the application processing to start the sites. Sami representatives were invited, but no participants appeared nor enquires were presented. Indicator: Evidence that the farm has undertaken a) It was communicated during the application processing to start the sites. Some Sami groups are present in the area. proactive consultation with indigenous communities b) It was communicated during the application processing to start the sites. Sami representatives were invited to stake holders consultation meeting, but no participants appeared nor Requirement: Yes [133] 722 enquires presented. Compliant Applicability: All farms that operate in indigenous c) The extensive communication is completed during licence processing and initial certification stage. No inquiries received. The interview was not organised due to logistics and time territories or in proximity to indigenous or aboriginal people [133] Footnote [133] All standards related to indigenous rights only apply where relevant, based on proximity of indigenous territories. Indicator: Evidence of a protocol agreement, or an active process [134] to establish a protocol agreement, with indigenous communities a) It was communicated during the application processing to start the sites. Sami representatives were invited, but no participants nor enquires were presented. Compliant 7.2.3 Requirement: Yes b) It was communicated during the application processing to start the sites. Sami representatives were invited, but no participants appeared nor enquires were presented. Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133] [134] To demonstrate an active process, a farm must show ongoing efforts to communicate with indigenous communities, an understanding of key community concerns and responsiveness to key community concerns through adaptive farm management and other actions. Footnote Criterion 7.3 Access to resources Compliance Criteria a) The resources that are vital for community are known by the site. It was communicated during the application to get the licence to start the sites. Indicator: Changes undertaken restricting access to vita community resources [135] without community approval b) The community approval for resources was done during operation application processing to start the sites. 7.3.1 Compliant Requirement: None c) The extensive communication is completed during licence processing and initial certification stage. No inquiries received. The interview was not organised due to logistics and time limitations Applicability: All [135] Vital community resources can include freshwater, land or other natural resources that communities rely on for their livelihood. If a farm site were to block, for example, a community's sole access point to a needed freshwater resource, this would be unacceptable under the Dialogue

Footnote

| 7.3.2      | Indicator: Evidence of assessments of company's impact on access to resources  Requirement: Yes  Applicability: All   | a) It is communicated during the application processing to start the sites.      b) The extensive communication is completed during licence processing and initial certification limitations.                   | on stage. No inquiries received. The interview was not organised due to logistics and time   | Compliant        |                            |             |
|------------|---|---|--|------------------|----------------------------|-------------|
| A farm s   | eeking certification must have documentation from all of its  | INDICATORS AND STANDARDS FOR SI<br>s smolt suppliers to demonstrate compliance with the following standards. The requirements a<br>specific standards are applied to open systems (net pens), and to closed and | re, in general, a subset of the standards in Principles 1 through 7, focusing on the impacts that a  | are most relevar | t for smolt facilities. In | addition,   |
| Footnote   | [136] The SAD SC proposes this approach to addressing (   | environmental and social performance during the smolt phase of production. In the medium to<br>generate the necessary documentation to demonstrate compliance with the standards                                | erm, the SC anticipates a system to audit smolt production facilities on site. In the meantime, far<br>. The documentation will be reviewed as part of the audit at the grow-out facility.   | ms will need to  | work with their smolt s    | uppliers to |
| SECTION 8: | STANDARDS FOR SUPPLIERS OF SMOLT  |   |  |                  |                            |             |
|            |   | Standards related to Prin Compliance Criteria (Required Client Actions):  | Auditor Evaluation (Required CAB Actions):   |                  | I                          |             |
|            |   | a. Identify all of the farm's smolt suppliers. For each supplier, identify the type of smolt production system used (e.g. open, semi or closed systems) and submit this information to ASC (Appendix VI).       | a) The suppliers of smolts: Akvafarm (semiclosed), Ranfjord (semiclosed), and Forsan Smolt (semiclosed) b) Akvafarm: Approval from Fylkesmannen i Tromso og Finnmark dated 17.Juni. 2019. ref. 2019/4888 for the max production of 2.5 million smolts.   |                  |                            |             |
| 8.1        | Indicator: Compliance with local and national regulations on water use and discharge, specifically providing permits related to water quality  Requirement: Yes | b. Where legal authorisation related to water quality are required, obtain copies of smolt suppliers' permits.  | Ranfjord: Approval from Fylkesmannen i Nordland dated 19.07.2004, ref 2003/384 for the max of feed 285 tonn use and no limit for production of smolt.  Forsan: Nordland Fylkeskommune dt. 19.04.16 for max 1600 MT feed / 12,2 mill smolts.Water abstraction permit from NVE, dated 28.1.2011, ref 200707783-22 Fylkesmannen Nordland discharge permit dt. 19.04.16, ref 2015/43 | Compliant        |                            |             |
|            | Applicability: All Smolt Producers  c. Obtain records from smolt suppliers showing n  | c. Obtain records from smolt suppliers showing monitoring and compliance with discharge laws, regulations, and permit requirements as required.   | c) Akvafarm: Insepection from NFSA on date 04.12.2017. No NC. MOM B on date 20.02.2018 classified as 1.  Ranfjord:Inspection form Mattilsynet on 11/12.June.2018. There was one NC regarding the updating some procedure handling NCs in their intrernal quality system. The NC was closed   |                  |                            |             |
|            |   | -   | on 31.01.2019.  Forsan: No inspection form relevat authorities.  |                  |                            |             |
|            |   | a. Obtain declarations from smolt suppliers affirming compliance with labor laws and regulations.   |  |                  |                            |             |
| 8.2        | Indicator: Compliance with labor laws and regulations  Requirement: Yes  Applicability: All Smolt Producers   | b. Keep records of supplier inspections for compliance with national labor laws and codes (only if such inspections are legally required in the country of operation; see 1.1.3a)                               | Ranfjord: Stetment on labor laws 18.11.2016. Arbejdesmiljø LOV-2005-06-17-62.  No Inspections relating to labour conditions/issues has been held recent years.  Akvafarm statement signed on 09-01-2019 regarding labor laws and regulations. No inspection  Forsan is an internal supplier, therefore Cermaq policies are followed. No inspection form relevant authorities.    | Compliant        |                            |             |

|     |  | Standards related to Prin  | nciple 2   |           |  |
|-----|--|--|--|-----------|--|
|     |  | Compliance Criteria (Required Client Actions):   | Auditor Evaluation (Required CAB Actions):   |           |  |
|     |  | Note: If the smolt facility has previously undertaken an independent assessment of biodivers documents as evidence to demonstrate compliance with Indicator 8.3 as long as all compone   | ity impact (e.g. as part of the regulatory permitting process), the farm may obtain and use such nts are covered. $ \frac{1}{2} \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}$ |           |  |
| 8.3 | Indicator: Evidence of an assessment of the farm's potential impacts on biodiversity and nearby ecosystems that contains the same components as the assessment for grow-out facilities under 2.4.1  Requirement: Yes | a. Obtain from the smolt supplier(s) a documented assessment of the smolt site's potential impact on biodiversity and nearby ecosystems. The assessment must address all components outlined in Appendix I-3.  | a, b) Forsan: the risk assessment of the smolt production was revised on 17. June. 2019. which include asociated risked related to animals, escapes, enviroments, sea floor. A. Fiskeridirektoratet permit and Recipient survey performed by AkvaPlan Niva AS 31.1.2017, 13.09.17 and 13.3.2018, all results category 1, very good MOM-B Report no APN-0130.01 Result category 1 very good.  | Compliant |  |
|     | Applicability: All Smolt Producers   | b. Obtain from the smolt supplier(s) a declaration confirming they have developed and are implementing a plan to address potential impacts identified in the assessment.   | Akvafarm: envirometal impact assesment dated on 13.05.2019.MOM B on date 20.02.2018 classified as 1.  Ranfjord: The risk assessment for environment and action plan, dated 31.10.2018  |           |  |
|     |  | Instruction to Clients for Indicator 8.4 - Calculating Total Phosphorus Released per Ton of F Farms must confirm that each of their smolt suppliers complies with the requirement of indic can release into the environment per metric ton (mt) of fish produced over a 12-month periousing a "mass balance" approach. Detailed instructions and formulas are given in Appendix V If applicable, farms may take account of any physical removals of phosphorus in the form of s-the smolt supplier has records showing the total quantity of sludge removed from site over the supplier determined phosphorus concentration (% P) in removed sludge by sampling an the sludge was properly disposed off site and in accordance with the farm's biosolid manage | cator 8.4. This specifies the maximum amount of phosphorus that a smolt production facility id. The requirement is set at 4 kg/mt. The calculation of total phosphorus released is made ill-1.  Sludge provided there is evidence to show: the relevant time period; d analyzing representative batches; and   |           |  |
|     | Indicator: Maximum total amount of phosphorus  | a. Obtain records from smolt suppliers showing amount and type of feeds used for smolt production during the past 12 months.      b. For all feeds used by the smolt suppliers (result from 8.4a), keep records showing phosphorus content as determined by chemical analysis or based on feed supplier declaration (Appendix VIII-1).   | a) Forsan:1270660 kg feed for period 01.01.18-31.12.18. Akvafarm: 228610 kg feed for 2018-2019 Ranfjord: 497313 kg feed used b) Values for different feed types delivered from feed suppliers were seen and verified.  |           |  |
| 8.4 | released into the environment per metric ton (mt) of fish produced over a 12-month period (see Appendix VIII-1)  Requirement: 4 kg/mt of fish produced over a 12-month period  | c. Using the equation from Appendix VIII-1 and results from 8.4a and b, calculate the total amount of phosphorus added as feed during the last 12 months of smolt production.  | c) Forsan: 20980,1 kg total amount of phosphorus in feed. Akvafarm: 3900.6 kg total amount of phosphorus in feed Ranfjord:2138.5 kg total amount of phosphorus in feed   |           |  |
|     | Applicability: All Smolt Producers   | d. Obtain from smolt suppliers records for stocking, harvest and mortality which are sufficient to calculate the amount of biomass produced (formula in Appendix VIII-1) during the past 12 months.  | d) Records for stocking, harvest and mortality which are sufficient to calculate the amount of biomass produced are availabl Forsan: 1 047 833 kg biomass production. Akvafarm:225420 kg biomass production. Ranfjord:497300 kg biomass production.  | Compliant |  |
|     |  | e. Calculate the amount of phosphorus in fish biomass produced (result from 8.4d) using the formula in Appendix VIII-1.  | e) Calculations are correct. Forsan:19,49 kg phosphorus in fish biomass (mt) produced Akvafarm:16.30 kg phosphorus in fish biomass (mt) produced   |           |  |
|     |  | f. If applicable, obtain records from smolt suppliers showing the total amount of P removed as sludge (formula in Appendix VIII-1) during the past 12 months.  | Ranfjord:17.2 kg phosphorus in fish biomass (mt) produced  Reference is made to VR 39 on phosphorus release to sea confirmed by ASC. See www.asc-aqua.org for VR 39 determination by ASC dt.15.09.14   |           |  |
|     |  | g. Using the formula in Appendix VIII-1 and results from 8.4a-f (above), calculate total phosphorus released per ton of smolt produced and verify that the smolt supplier is in compliance with requirements.  | f) No sludge produced/removed<br>g) NA   |           |  |

|          |  | Standards related to Prin   | ciple 3  |                  |                          |             |
|----------|--|---|--|------------------|--------------------------|-------------|
|          |  | Compliance Criteria (Required Client Actions):  | Auditor Evaluation (Required CAB Actions):   |                  |                          |             |
|          |  | Obtain written evidence showing whether the smolt supplier produces a non-native species or not. If not, then Indicator 8.5 does not apply.   |  |                  |                          |             |
|          |  | b. Provide the farm with documentary evidence that the non-native species was widely commercially produced in the area before publication of the ASC Salmon Standard. (See definition of area under 3.2.1).   |  |                  |                          |             |
| 8.5      | Indicator: If a non-native species is being produced, the species shall have been widely commercially produced in the area prior to the publication of the ASC Salmon Standard | c. If the smolt supplier cannot provide the farm with evidence for 8.5b, provide documentary evidence that the farm uses only 100% sterile fish.  | Salmo salar is native to region.   | N/A              |                          |             |
|          | Requirement: Yes [137] Applicability: All Smolt Producers except as noted in [137]   | d. If the smolt supplier cannot provide the farm with evidence for 8.5b or 8.5c, provide documented evidence for each of the following:  1) non-native species are separated from wild fish by effective physical barriers that are in place and well maintained;  2) barriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce; and  3) barriers ensure there are no escapes of biological material that might survive and subsequently reproduce. | Sum Sud State to regon.  |                  |                          |             |
|          |  | e. Retain evidence as described in 8.5a-d necessary to show compliance of each facility supplying smolt to the farm.  |  |                  |                          |             |
| Footnote | [137] Exceptions shall be made for production systems the  | nat use 100 percent sterile fish or systems that demonstrate separation from the wild by effect<br>subsequently ru  | ive physical barriers that are in place and well-maintained to ensure no escapes of reared specieproduce.  | mens or biologic | al material that might s | survive and |
|          |  | a. Obtain documentary evidence to show that smolt suppliers maintained monitoring records of all incidences of confirmed or suspected escapes, specifying date, cause, and estimated number of escapees.  | a) No escaped according to internal statement. Internal Risk Assessment with instruction for registration and reporting. No incident reported. Verified by Fisheries Directorate escape incidents overviw (www.F.Dir.no) b) No incident reported. Verified by Fisheries Directorate escape incidents overviw (www.F.Dir.no) c) Internal smolt supplier. All records in Fish Talk d) Internal Risk Assessment/contingency plan with instruction for registration and reporting. |                  |                          |             |
|          | Indicator: Maximum number of escapees [138] in the most recent production cycle  | b. Using smolt supplier records from 8.6a, determine the total number of fish that escaped. Verify that there were fewer than 300 escapees from the smolt production facility in the most recent production cycle.  |  |                  |                          |             |
| 8.6      | Requirement: 300 fish [139]  Applicability: All Smolt Producers except as noted in [139]   | c. Inform smolt suppliers in writing that monitoring records described in 8.6a must be maintained for at least 10 years beginning with the production cycle for which the farm is first applying for certification (necessary for farms to be eligible to apply for the exception noted in [139]).  |  |                  |                          |             |
|          |  | d. If an escape episode occurs at the smolt production facility (i.e. an incident where > 300 fish escaped), the farm may request a rare exception to the Standard [139]. Requests must provide a full account of the episode and must document how the smolt producer could not have predicted the events that caused the escape episode.  | No incident reported. Verified by Fisheries Directorate escape incidents overviw (www.F.Dir.no)  |                  |                          |             |
| Footnote |  | [138] Farms shall report all escapes; the total aggregated number   | of escapees per production cycle must be less than 300 fish.   |                  |                          |             |
| Footnote |  |   | h exceptional episode is allowed in a 10-year period for the purposes of this standard. The 10-y d the episode. Extreme weather (e.g., 100-year storms) or accidents caused by farms located noise exception.  |                  |                          |             |

|          | Indicator: Accuracy [140] of the counting technology or   | a. Obtain records showing the accuracy of the counting technology used by smolt suppliers.   | a, b) Last secure point of counting in vaccination.  |           |  |
|----------|---|--|--|-----------|--|
| 8.7      | counting method used for calculating the number of fish  Requirement: ≥98%  | Records must include copies of spec sheets for counting machines and common estimates of error for hand-counts.  | Forsan, using Macro Serien from Vaki Makcro. 99% accuracy. Verified by provider specsifications.  Ranfjord: Aquascan, 98-100% acuracy. Verified by provider specsifications.   | Compliant |  |
|          | Applicability: All Smolt Producers  | B. Review records to verify that accuracy of the smolt supplier's counting technology or counting method is $\geq$ 98%.  | Akvafarm: using Macro Serien from Vaki Makcro. 98-100% accuracy. Verified by provider specsifications.   |           |  |
| Footnote |   | [140] Accuracy shall be determined by the spec sheet for counting mach   | nines and through common estimates of error for any hand counts.   | 1         |  |
|          |   | Standards related to Prin  | <u>:</u>   | 1         |  |
|          |   | Compliance Criteria (Required Client Actions):   | Auditor Evaluation (Required CAB Actions):   |           |  |
| 8.8      | Indicator: Evidence of a functioning policy for proper and responsible treatment of non-biological waste from production (e.g., disposal and recycling)  Requirement: Yes  Applicability: All Smolt Producers | a. From each smolt supplier obtain a policy which states the supplier's commitment to proper and responsible treatment of non-biological waste from production. It must explain how the supplier's policy is consistent with best practice in the area of operation. | a) Forsan: Cermaq internal document "Avfallsplan Cermaq Norway" version 14, dated 27.03.18 with authorised service provider Iris on specialwaste and Østbø. Public service on domestic, type of waste defined, domestic, special waste/chemicals, for recycling etc. evaluation of environmental impacts  Ranfjord: avfallsplan" with authorised service provider Retura on special waste, Public service on domestic, type of waste defined, domestic, special waste/chemicals, for recycling etc. Evaluation of environmental impacts.  Akvafarm: 10.05.2019. Instrustion regarding handling waste, dated 10.05.2019 was seen. | Compliant |  |
|          |   | Note: see instructions for Indicator 4.6.1.  | T  |           |  |
|          | Indicator: Presence of an energy-use assessment verifying the energy consumption at the smolt production facility (see Appendix V subsection 1 for guidance and   | a. Obtain records from the smolt supplier for energy consumption by source (fuel, electricity) at the supplier's facility throughout each year.  | a) Records OK in excel documents. b, c, d) Ranfjord:   |           |  |
|          |   | b. Confirm that the smolt supplier calculates total energy consumption in kilojoules (kj) during the last year.  | Total biomass production: 497313 kg Electericity: 4700725200 kj Fuel: 18180000 kj Total energy per mt biomass: 9494779,07 kj/mt  § Forsan: Electricity: 12889100000 kj Fuels: 36978 616 200 kj Total production: 1229 ton Total energy: 30 677 499 kj/ton  Akvafarm: Electricity: 8420626800 kj  |           |  |
| 8.9      | required components of the records and assessment)  Requirement: Yes, measured in kilojoule/mt fish/production cycle  | c. Obtain records to show the smolt supplier calculated the total weight of fish in metric tons (mt) produced during the last year.  |  |           |  |
|          | Applicability: All Smolt Producers  | d. Confirm that the smolt supplier used results from 8.9b and 8.9c to calculate energy consumption on the supplier's facility as required and that the units are reported as kilojoule/mt fish/production cycle.   |  |           |  |
|          |   | e. Obtain evidence to show that smolt supplier has undergone an energy use assessment in compliance with requirements of Appendix V-1. Can take the form of a declaration detailing a-e.   |  |           |  |

|  | Note: see instructions for Indicator 4.6.2.  |  |  |  |   |  |
|--|--|--|--|--|---|--|
|  | a. Obtain records of greenhouse gas emissions from the smolt supplier's facility.  | a, b, c) Records OK  |  |  |   |  |
| Indicator: Records of greenhouse gas (GHG [141]) emissions [142] at the small production facility and  | b. Confirm that, on at least an annual basis, the smolt supplier calculates all scope 1 and scope 2 GHG emissions in compliance with Appendix V-1.   |  |  |  |   |  |
| evidence of an annual GHG assessment (See Appendix V, subsection 1)  Requirement: Yes                  | c. For GHG calculations, confirm that the smolt supplier selects the emission factors which are best suited to the supplier's operation. Confirm that the supplier documents the source of the emissions factors.  | Forsan Scope 1: emission from Fuel: 51 102 kg CO2 Scope 2: emission from electricity: 2 610 739,7 kg CO2 Akvafarm:   | Compliant  |  |   |  |
| Applicability: All Smolt Producers   |  | Scope 1: emission from Fuel: 19820 kg CO2 Scope 2: emission from electricity: 253886 kg CO2 d) CO2 used  |  |  |   |  |
|  | e. Obtain evidence to show that the smolt supplier has undergone a GHG assessment in compliance with requirements Appendix V-1 at least annually.  | e) Calculaitons and asessment provided by CO2 focus. Data from IEA 2013, SSB 2013, EIA 2011, IPCC 2006.  |  |  |   |  |
| [141] For the purposes of this st  | randard, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide (CO <sub>2</sub> ); n  | nethane (CH <sub>4</sub> ); nitrous oxide (N2O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and su  | lphur hexafluor  | ide (SF <sub>6</sub> ).  |   |  |
|  | [142] GHG emissions must be recorded using recognized met  | hods, standards and records as outlined in Appendix V.   |  |  |   |  |
|  |  |  |  | T .  |   |  |
|  | Compliance Criteria (Required Client Actions):   |  |  |  |   |  |
| Indicator: Evidence of a fish health management plan, approved by the designated veterinarian, for the | Obtain a copy of the supplier's fish health management plan for the identification and monitoring of fish disease and parasites.   | diagnostics and control measures. Approved and signed by veterinarian (fish health manager) dt 26.08.2019 .  |  |  |   |  |
| parasites  |  | and control measures. Approved and signed by veterinarian dt 14.12.2018 .  | Compliant  |  |   |  |
| Requirement: Yes  Applicability: All Smolt Producers   | b. Keep documentary evidence to show that the smolt supplier's health plans were approved by the supplier's designated veterinarian.   | Akvafaram: Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. Approved and signed by veterinarian dt 09.01.2019  |  |  |   |  |
|  | emissions [142] at the smolt production facility and evidence of an annual GHG assessment (See Appendix V, subsection 1)  Requirement: Yes  Applicability: All Smolt Producers  [141] For the purposes of this st  Indicator: Evidence of a fish health management plan, approved by the designated veterinarian, for the identification and monitoring of fish diseases and parasites  Requirement: Yes | Indicator: Records of greenhouse gas (GHG [141]) emissions [142] at the smolt production facility and evidence of an annual GHG assessment (See Appendix V, subsection 1)  Requirement: Yes  Applicability: All Smolt Producers  d. For GHG calculations, confirm that the smolt supplier selects the emission factors which are best suited to the supplier's operation. Confirm that the supplier documents the source of the emissions factors.  d. For GHG calculations involving conversion of non-CO2 gases to CO2 equivalents, confirm that the smolt suppliers specify the Global Warming Potential (GWP) used and its source.  e. Obtain evidence to show that the smolt supplier has undergone a GHG assessment in compliance with requirements Appendix V-1 at least annually.  [141] For the purposes of this standard, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide (CO <sub>2</sub> ); m  [142] GHG emissions must be recorded using recognized met  Standards related to Print  Compliance Criteria (Required Client Actions): a. Obtain a copy of the supplier's fish health management plan for the identification and monitoring of fish diseases and parasites.  Requirement: Yes  b. Keep documentary evidence to show that the smolt supplier's health plans were approved by the supplier's designated veterinarian. | Indicator: Records of greenhouse gas (GHG [141]) emissions [142] at the smolt production facility and evidence of an annual GHG assessment (See Appendix V. 2.  For GHG calculations, confirm that the smolt supplier selects the emission factors which are best suited to the supplier's operation. Confirm that the supplier documents the source of the emissions factors.  Applicability: All Smolt Producers  Applicability: All Smo | Indicator: Records of greenhouse gas (GHG [141]) emissions [342] at the smolt production facility and evidence of an annual GHG assessment (See Appendix V, subsection 1) Requirement: Yes  Applicability: All Smolt Producers  Obtain evidence to show that the smolt supplier special or for GHG calculations, ronfirm that the smolt supplier special or for GHG calculations, confirm that the supplier documents the source of the emission from Fuel: 51.102 kg CQ2  Scope 2: emission from Fuel: 51.102 kg CQ2  Sco | Indicator: Records of greenhouse gas [GHG [141]) emissions [142] at the smolt production facility and evidence of an annual GHG assessment [See Appendix V. L. Scope 2-GHG emissions in compliance with Appendix V-1.  **To Confirm that, on at least an annual basis, the smolt supplier calculates all scope 1 and societies of greenhouse gas [GHG [141]) emissions [142] at the smolt production facility and evidence of an annual GHG assessment [See Appendix V. L. Scope 2-GHG emissions in compliance with Appendix V-1.  **To CHG Calculations, Confirm that the smolt supplier speciation. Confirm that the supplier documents the source of the emissions factors which are the supplier of speciation. Confirm that the supplier documents the source of the emissions from electricity: 2-Eto 7939 7 kg CO2  **Scope 2-Emission from Eucl: 19820 kg CO2  **Scope 2-Emission |  |

|          | T  |   | 1  |                    |                           |            |  |  |  |
|----------|--|---|--|--------------------|---------------------------|------------|--|--|--|
|          |  | a. Maintain a list of diseases that are known to present a significant risk in the region, developed by farm veterinarian and supported by scientific evidence.   | a) Forsan: Internal Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. Approved and signed by veterinarian (fish health manager) dt 26.08.2019 .   |                    |                           |            |  |  |  |
|          | Indicator: Percentage of fish that are vaccinated for selected diseases that are known to present a significant risk in the region and for which an effective vaccine exists [143] | b. Maintain a list of diseases for which effective vaccines exist for the region, developed by the farm veterinarian and supported by scientific evidence.  | Ranfjord: Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. Approved and signed by veterinarian dt 14.12.2018.  Akvafaram: Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. Approved and signed by veterinarian dt 09.01.2019.  |                    |                           |            |  |  |  |
| 8.12     | Requirement: 100% Applicability: All Smolt Producers   | c. Obtain from the smolt supplier(s) a declaration detailing the vaccines the fish received.  | b) In fish health plan and CV Ttype of disease and control monitoring strategies, vaccines/pathogens type/product name detailed c) In smolt CV transfered to sea and Fish Talk with dates and type for smolts for site, 100% vaccination is a legal requirement controlled by NFSA. Hopen: For example vaccination on 20-07-2018 with Alpha Ject Micro 6 was seen in Fish CV to Eitnes Site. | Compliant          |                           |            |  |  |  |
|          |  | d. Demonstrate, using the lists from 8.12a-c above, that all salmon on the farm received vaccination against all selected diseases known to present a significant risk in the regions for which an effective vaccine exists.  | d) 100% vaccinated according to national legislation. Verified in smolt CV and Fishtalk.  Verified towards registrations in FHP / CV / Fishtalk.  Internal supplier: All fish vaccinated with vaccine type AJ-micro-6.   |                    |                           |            |  |  |  |
| Footnote | [143] The farm's designated veterinarian is responsible for  | or undertaking and providing written documentation of the analysis of the diseases that pose a<br>that this decision is consist   | a risk in the region and the vaccines that are effective. The veterinarian shall determine which vent with the analysis.   | accinations to us  | e and demonstrate to t    | he auditor |  |  |  |
|          |  | Instruction to Clients for Indicator 8.13 Testing of Smolt for Select Diseases  The farm is responsible for developing and maintaining a list of diseases of regional concern for which each smolt group should be tested. The list of diseases shall include diseases that originate in freshwater and are proven or suspected to occur in seawater (and for which seawater fish-to-fish transmission is a concern).   |  |                    |                           |            |  |  |  |
| 8.13     | Indicator: Percentage of smolt groups [144] tested for<br>select diseases of regional concern prior to entering the<br>grow-out phase on farm                                      | The designated veterinarian to the smolt supplier is required to evaluate, based on scientific criteria and publicly available information, which diseases should be tested for. This analysis shall include an evaluation of whether clinical disease or a pathogen carrier state in fresh water is deemed to have a negative impact on the grow-out phase, thereby disqualifying a smolt group from being transferred. The analysis must be available to the CAB upon request.  Note: A "smolt group" is defined as a population that shares disease risk, including environment, husbandry, and host factors that might contribute to sharing disease agents for each group. |  |                    |                           |            |  |  |  |
|          | Requirement: 100% Applicability: All Smolt Producers   | Obtain from the smolt supplier a list of diseases of regional concern for which smolt should be tested. List shall be supported by scientific analysis as described in the Instruction above.   | a) Risk based testing regime.VHP and Veterinary visits: lists and documented according to local VHP predetermined sampling and visits regime defined in VHP plan.  | Compliant          |                           |            |  |  |  |
|          |  | b. Obtain from the smolt supplier(s) a declaration and records confirming that each smolt group received by the farm has been tested for the diseases in the list (8.13a).  | b) Veterinary visits according to VHP. Smolt group health certificate. Patogen analyse, tested for PRV and ILA, IPN, PRV, PMCV pre-stocking. No positive   |                    |                           |            |  |  |  |
| Footnote | is a concern) but originating in freshwater should be on   | the list of diseases tested. The designated veterinarian to the smolt farm is required to evaluate  | ase agents for each group. Only diseases that are proven, or suspected, as occurring in seawate<br>te, based on scientific criteria and publicly available information, which diseases should be test<br>hereby disqualifying a smolt group from being transferred. A written analysis must be available   | ed for. This analy | sis shall include an eval |            |  |  |  |

| Indicator: Detailed information, provided by the designated veterinarian of all chemicals and for the production cycle, the amounts used functioning grams per ton of its hool do to farm that is signed by their veterinarian and includes:  1.3 and the post of the service of all chemicals and the production cycle, the amounts used functioning grams per ton of its hool do to farm that is signed by their veterinarian and includes:  1.3 and the post of the service of a label sease, which group of fish were trade and against with cliebscess, proof of proper doising and all diseases and pathogens detected on the site.  1.4 Requirement: Yes  1.5 Applicability: All Smoll Producers  1.5 Indicator: Allowance for use of therapeutic treatments that include anathlosis of chemicals, that are bismode [1.45] in any of the primary salmon producing and importing countries [1.46].  1.5 Requirement: Yes  1.5 Applicability: All Smoll Producers  1.5 Requirement: Yes  1.5 Applicability: All Smoll Producers  1.5 Requirement: Yes  1.5 Requirement: Yes  1.5 Applicability: All Smoll Producers  1.5 |          | designated veterinarian, of all chemicals and  |  |  |           |  |
|---|----------|--|--|--|-----------|--|
| and chemicals, that are proactively banned for use in food fish for the primary salmon producing and importing countries listed in [146].  Indicator: Allowance for use of therapeutic treatments that include antibiotics or chemicals that are banned [145] in any of the primary salmon producing or importing countries [146]  Indicator: Allowance for use of therapeutic treatments that include antibiotics or chemicals that are banned [145] in any of the primary salmon producing or importing countries [146]  Requirement: Yes  Applicability: All Smolt Producers  Indicator: Allowance for use of therapeutic treatments that the treatments on the list cannot be used on fish sold to a farm with ASC certification.  Inform smolt supplier that the treatments on the list cannot be used on fish sold to a farm with ASC certification.  Inform smolt supplier that the treatments on the list cannot be used on fish sold to a farm with ASC certification.  Inform smolt supplier (1,24) in any of the primary salmon producing or importing countries [146]  Requirement: Yes  Applicability: All Smolt Producers  C. Compare therapeutant records from smolt supplier (8.14) to the list (8.15a) and confirm that no therapeutants appearing on the list (8.15a) were used on the smolt purchased by the farm.  C. Compare therapeutants appearing on the list (8.15a) were used on the smolt purchased by the farm.  Footnote  [145] "Banned" means proactively prohibited by a government entity because of concerns around the substance.   | 8.14     | the amounts used (including grams per ton of fish produced), the dates used, which group of fish were treated and against which diseases, proof of proper dosing and all disease and pathogens detected on the site Requirement: Yes | - product name and chemical name; - reason for use (specific disease) - date(s) of treatment; - amount (g) of product used; - dosage; - mt of fish treated; - the WHO classification of antibiotics (also see note under 5.2.8); and | producer and batch.  Prescription signed by responsible vetrinary / FHB/ Vaccines produced by Pharmaq.   | Compliant |  |
| [145] in any of the primary salmon producing or importing countries [146]  8.15  Requirement: Yes  Applicability: All Smolt Producers  C. Compare therapeutant records from smolt supplier (8.14) to the list (8.15a) and confirm that no therapeutants appearing on the list (8.15a) were used on the smolt purchased by the farm.  Footnote  [145] in any of the primary salmon producing or importing countries [146]  b. Inform smolt supplier that the treatments on the list cannot be used on fish sold to a farm permitted substances  b. Listed in "Forskrift om grenseverdier for legemidler i næringsmidler" "Norwegian regulation/NFSA. Substances banned in marked "In FHP" oversikt MRL for EU, USA, Japan, Kina, Australia og Russia" last revised in March 2018. Statement dt.18.01.18 - "Medicines and antibiotics allowed by Cermaq Norway". Approved and used substances are referred in FHP. Doc. dated 18.01.2018 with overview of banned substances. List for USA and Japan only permitted substances  c) Vaccines in fish CV and Fish Talk - type and producer and batch.  Ananesthetics and antiparasite treatment formalin, ok according to list. No AB used.  Footnote  |          |  | and chemicals, that are proactively banned for use in food fish for the primary salmon producing and importing countries listed in [146].  | regulation/NFSA. Substances banned in marked "In FHP" oversikt MRL for EU, USA, Japan, Kina, Australia og Russia" last revised in March 2018. Statement dt.18.01.18 - "Medicines and antibiotics allowed by Cermaq Norway". Approved and used substances are referred in FHP. Doc. dated 18.01.2018 with overview of banned substances. List for USA and Japan only    |           |  |
| Applicability: All Smolt Producers  C. Compare therapeutant records from smolt supplier (8.14) to the list (8.15a) and confirm that no therapeutants appearing on the list (8.15a) were used on the smolt purchased by the farm.  Cotnote  [145] "Banned" means proactively prohibited by a government entity because of concerns around the substance.   | 8.15     | [145] in any of the primary salmon producing or importing countries [146]  |  | b) Listed in "Forskrift om grenseverdier for legemidler i næringsmidler" "Norwegian  | Compliant |  |
|   |          |  | that no therapeutants appearing on the list (8.15a) were used on the smolt purchased by the  | Kina, Australia og Russia" last revised in March 2018. Statement dt.18.01.18 - "Medicines and antibiotics allowed by Cermaq Norway". Approved and used substances are referred in FHP. Doc. dated 18.01.2018 with overview of banned substances. List for USA and Japan only permitted substances  c) Vaccines in fish CV and Fish Talk - type and producer and batch. |           |  |
|   | Footnote |  | [145] "Banned" means proactively prohibited by a governm   | ent entity because of concerns around the substance.   |           |  |
|   | Footnote |  |  |  |           |  |
| Indicator: Number of treatments of antibiotics over the most recent production cycle  8.16  | 0 16     |  | a. Obtain from the smolt supplier records of all treatments of antibiotics (see 8.14a).  | a) No AB used. Seen fish CV with all treatments identifed.   | Compliant |  |
| 8.16 Requirement: ≤ 3 b. Calculate the total number of treatments of antibiotics from their most recent production b) No AB used. Seen fish CV with all treatments identifed.  Applicability: All Smolt Producers Compliant b) No AB used. Seen fish CV with all treatments identifed.  | 8.16     |  | b. Calculate the total number of treatments of antibiotics from their most recent production   | b) No AB used. Seen fish CV with all treatments identifed.   | Compilant |  |
| a. Provide to smolt supplier(s) a current version of the WHO list of antimicrobials critically and highly important for human health [147].  a, b, c)   |          |  | ** **  | a, b, c)   |           |  |
| Indicator: Allowance for use of antibiotics listed as  |          |  |  | parasite diagnostics and control measures. List of allowed and banned substances - against   |           |  |
|   | 8.17     | critically important for human medicine by the WHO [147]  Requirement: None [148]  Applicability: All Smolt Producers  | c. Compare smolt supplier's records for antibiotic usage (8.14, 8.15a) with the WHO list (8.17a) to confirm that no antibiotics listed as critically important for human medicine by the   | Ranfjord: Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. Approved and signed by veterinarian dt 14.12.2018. No anitbiotics used. Seen fish CV at the audit with all treatments identified.  Advafaram: Fish Health Plan, Plan covers all aspect of relevant diseases and parasite.                       | Compliant |  |
| critically important for human medicine by the WHO [147] 8.17  Requirement: None [148]  C. Compare smolt supplier's records for antibiotic usage (8.14, 8.15a) with the WHO list Applicability: All Smolt Producers  C. Compare smolt supplier's records for antibiotics listed as critically important for human medicine by the  Ranfjord: Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. Approved and signed by veterinarian dt 14.12.2018. No anitibiotics used. Seen fish CV at the audit with all treatments identified.  |          |  | WHO were used on fish purchased by the farm.   | Akvararam: Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. Approved and signed by veterinarian dt 09.01.2019. No anitbiotics used. Seen fish CV at the audit with all treatments identified   |           |  |
| critically important for human medicine by the WHO [147] 8.17  Requirement: None [148]  Applicability: All Smolt Producers  C. Compare smolt supplier's records for antibiotic usage (8.14, 8.15a) with the WHO list (8.17a) to confirm that no antibiotics listed as critically important for human medicine by the WHO were used on fish purchased by the farm.  Reduirement: None [148]  C. Compare smolt supplier's records for antibiotic usage (8.14, 8.15a) with the WHO list (8.17a) to confirm that no antibiotics listed as critically important for human medicine by the WHO were used on fish purchased by the farm.  Applicability: All Smolt Producers  Applicability: All Smolt Producers  Compliant  Compliant  Compliant  Akvafaram: Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics used.  Seen fish CV at the audit with all treatments identified.  Akvafaram: Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics used.  Seen fish CV at the audit with all treatments identified.  |          |  |  |  |           |  |
| critically important for human medicine by the WHO [147] 8.17  Requirement: None [148]  Applicability: All Smolt Producers  C. Compare smolt supplier's records for antibiotic usage (8.14, 8.15a) with the WHO list (8.17a) to confirm that no antibiotics listed as critically important for human medicine by the WHO were used on fish purchased by the farm.  Reduirement: None [148]  C. Compare smolt supplier's records for antibiotic usage (8.14, 8.15a) with the WHO list (8.17a) to confirm that no antibiotics listed as critically important for human medicine by the WHO were used on fish purchased by the farm.  Applicability: All Smolt Producers  Applicability: All Smolt Producers  Compliant  Compliant  Compliant  Akvafaram: Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics used.  Seen fish CV at the audit with all treatments identified.  Akvafaram: Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics used.  Seen fish CV at the audit with all treatments identified.  | Footnote | [14  | 7] The 3rd edition of the WHO list of critically and highly important antimicrobials was released  | d in 2009 and is available at: http://www.who.int/foodborne_disease/resistance/CIA_3.pdf.  |           |  |

|          |   | Note: see instructions for Indica   | ntor 5.4.3 regarding evidence of compliance with the OIE Aquatic Animal Health Code.   |           |  |           |  |  |  |
|----------|---|---|--|-----------|--|-----------|--|--|--|
|          |   | a. Provide the smolt supplier with a current version of the OIE Aquatic Animal Health Code (or inform the supplier how to access it from the internet).   | a, b, c) Forsan : Forsan Smolt is an internal supplier, is operated in accordance with the Cermaq  |           |  |           |  |  |  |
| 8.18     | Indicator: Evidence of compliance [149] with the OIE Aquatic Animal Health Code [150]  Requirement: Yes  Applicability: All Smolt Producers | b. Inform the supplier that an ASC certified farm can only source smolt from a facility with policies and procedures that ensure that its smolt production practices are compliant with the OIE Aquatic Animal Health Code.   | policy and procedures concerning compliance with the OIE Aquatic Animal Health Code. See Cermag Statement dated 18.01.2018 on ASC requirements regarding OIE Aquatic Animal Health Code for smolt deliveries. The statement is signed by a designated veterinarian.  Ranfjord: Fish Health Plan. Plan covers all aspect of relevant diseaes and parasite diagnostics and control measures. External veterinary service Marin Helse. Approved and signed by veterinarian dt 02.10.16. | Compliant |  |           |  |  |  |
|          |   | c. Obtain a declaration from the supplier stating their intent to comply with the OIE code and copies of the smolt suppliers policies and procedures that are relevant to demonstrate compliance with the OIE Aquatic Animal Health Code.   |  |           |  |           |  |  |  |
| Footnote |   |   | this standard, this includes an aggressive response to detection of an exotic OIE-notifiable diseat<br>Exotic signifies not previously found in the area or had been fully eradicated (area declared fre   |           |  | ating the |  |  |  |
| Footnote |   | [150] OIE 2011. Aquatic Animal Health Code.   |  |           |  |           |  |  |  |
|          |   | Standards related to Prin   |  |           |  |           |  |  |  |
|          |   | Compliance Criteria (Required Client Actions):  | Auditor Evaluation (Required CAB Actions):   |           |  |           |  |  |  |
| 8.19     | Indicator: Evidence of company-level policies and procedures in line with the labor standards under 6.1 to 6.11                             | a. Obtain copies of smolt supplier's company-level policies and procedures and a declaration of compliance with the labor standards under 6.1 to 6.11.  | a) The internal Smolt supplier used: company documents applies.  | Compliant |  |           |  |  |  |
| 8.19     | Requirement: Yes  Applicability: All Smolt Producers  | b. Review the documentation and declaration from 8.19a to verify that smolt supplier's policies and procedures are in compliance with the requirements of labor standards under 6.1 to 6.11.  | b) Statements from suppliers were seen. No inspection on labor issues.   |           |  |           |  |  |  |
|          |   | Standards related to Prin   | Liple 7  |           |  |           |  |  |  |
|          |   | Compliance Criteria (Required Client Actions):  | Auditor Evaluation (Required CAB Actions):   |           |  |           |  |  |  |
| 0.70     | Indicator: Evidence of regular consultation and engagement with community representatives and organizations                                 | Instruction to Clients for Indicator 8.20 - Consultation and Engagement with Community Representatives  Farms must comply with Indicator 7.1.1 which requires that farms engage in regular consultation and engagement with community representatives and organizations. Under Indicator 8.20, farms must show how each of their smolt supplier complies with an equivalent requirement. Farms are obligated to maintain evidence that is sufficient to show their suppliers remain in full compliance. Evidence shall be documentary (e.g. meeting agenda, minutes, report) and will substantiate the following:  - the smolt supplier engaged in "regular" consultations with the local community at least twice every year (bi-annually);  - the supplier's consultations were effective (e.g. using participatory Social Impact Assessment (pSIA) or similar methods); and  - the supplier's consultations included participation by elected representatives from the local community who were asked to contribute to the agenda. |  |           |  |           |  |  |  |
| 8.20     | Requirement: Yes Applicability: All Smolt Producers   | a. From each smolt supplier obtain documentary evidence of consultations and engagement with the community.   | a) Interested parties and communities were invited for a meeting. Agenda and the name of invitees were seen. The list of atendee was seen.   | Compliant |  |           |  |  |  |
|          |   | b. Review documentation from 8.20a to verify that the smolt supplier's consultations and community engagement complied with requirements.   | b) Consultations have included main points required by the standard. No minutes of meeting just presentation of the activities and treatment.  | Compliant |  |           |  |  |  |

| 8.21   | Indicator: Evidence of a policy for the presentation, treatment and resolution of complaints by community stakeholders and organizations  Requirement: Yes  Applicability: All Smolt Producers            | a. Obtain a copy of the smolt supplier's policy for presentation, treatment and resolution of complaints by community stakeholders and organizations.   | a) The procedure for complaints was presented, dated 09.10.2018.  If any complaint is received it will be effectively addressed. No complaint has been recieved.  | Compliant           |                    |  |  |  |
|--|---|---|---|---------------------|--------------------|--|--|--|
| 8.22   | Indicator: Where relevant, evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations  Requirement: Yes  Applicability: All Smolt Producers        | a. Obtain documentary evidence showing that the smolt supplier does or does not operate in an indigenous territory (to include farms that operate in proximity to indigenous or aboriginal people (see Indicator 7.2.1). If not then the requirements of 8.22 do not apply.  b. Obtain documentation to demonstrate that, as required by law in the jurisdiction: smolt supplier consulted with indigenous groups and retains documentary evidence (e.g. meeting minutes, summaries) to show how the process complies with 7.2.1b; OR smolt supplier confirms that government-to-government consultation occurred and obtains documentary evidence. | a) It was communicated during the application processing to start the sites. No indigenous groups or aboriginal people are present in neighbourhood.  No traditional and indigenous groups are involved.  b) It was communicated during the application processing to start the sites. No traditional and indigenous groups are involved.  No traditional and indigenous groups are involved. | Compliant           |                    |  |  |  |
| 8.23   | undertaken proactive consultation with indigenous communities  a. See results of 8.22a (above) to determine whether the requirements of 8.23 apply to the smolt supplier.  b. Requirement: Yes            |   | a) It was communicated during the application processing to start the sites.     Based on 8.2.2 a) the requirements of 8.2.3. do not apply.     b) No consultation is applicable.     c) No traditional and indigenous groups are involved.   | Compliant           |                    |  |  |  |
|  | ADDITIONAL REQUIREMENTS FOR OPEN (NET-PEN) PRODUCTION OF SMOLT  In addition to the requirements above, if the smolt is produced in an open system, evidence shall be provided that the following are met: |   |   |                     |                    |  |  |  |
| Instruction to Clients for Indicators 8.24 through 8.31 - Requirements for Smolt Produced in Open Systems  Client shall provide documentary evidence to the CAB about the production system(s) from which they source smolt. If smolt used by the farm are produced, for part or all of the growth phase from alevin to smolt, in open (net-pen) systems, indicators 8.24 - 8.31 are applicable. |   |   |   |                     |                    |  |  |  |
|  | Client shall provide documentary evidence to the CAE  | 3 about the production system(s) from which they source smolt. If smolt used by the farm are p  | routeed, for part of an of the growth phase from alevin to smolt, in open their peny systems, in  | dicators 8.24 - 8.3 | 31 are applicable. |  |  |  |
|  | Indicator: Allowance for producing or holding smolt in net pens in water bodies with native salmonids  Requirement: None  Applicability: All Smolt Producers Using Open Systems                           | a. Obtain a declaration from the farm's smolt supplier stating whether the supplier operates in water bodies with native salmonids.  b. Request smolt suppliers to identify all water bodies in which they operate net pens for producing smolt and from which facilities they sell to the client.  c. For any water body identified in 8.24b as a source of smolt for the farm, determine if native salmonids are present by doing a literature search or by consulting with a reputable authority. Retain evidence of search results.   | No net-pens, tanks only.  | N/A                 | 31 are applicable. |  |  |  |

| Ending   Control   Contr     | 8.26     | Indicator: Evidence that carrying capacity (assimilative capacity) of the freshwater body has been established by a reliable entity [151] within the past five years [152] and total biomass in the water body is within the limits established by that study (see Appendix VIII-5 for minimum requirements)  Requirement: Yes  Applicability: All Smolt Producers Using Open Systems | a. For the water body(s) where the supplier produces smolt for the client (see 8.24b), obtain a copy of the most recent assessment of assimilative capacity.  b. Identify which entity was responsible for conducting the assessment (8.26a) and obtain evidence for their reliability.  c. Review the assessment (8.26a) to confirm that it establishes a carrying capacity for the water body, it is less than five years old, and it meets the minimum requirements presented in Appendix VIII-5.  d. Review information to confirm that the total biomass in the water body is within the limits established in the assessment (8.26a).  | No net-pens, tanks only.   | N/A |  |  |  |  |
|--|----------|---|--|--|-----|--|--|--|--|
| Isszu if the study is older than two years, and there has been a significant increase in notifient input to the water body since the completion of the study, a more recent assessment is required.  Instruction to Clients for indicator 8.27 and 8.28 - Monitoring TP and DO in Receiving Water for Open Smolt Systems Farms must confirm that any smolt supplier using an open (net-pen) system is also engaged in monitoring of water quality of receiving waters. Requirements for the supplier's water quality monitoring program are presented in detail in Appendix VIII-6 and only re-stated briefly here. Monitoring shall sample phosphorus (TP) and disoxed oxygen (DO). The inexaurer in water samples taken or an expresentative composite sample through the water column to a depth of the bottom of the cages. Samples are submitted to an accredited laboratory for analysis of TP to a method detection limit of < 0.002 mg/L. Do measurements will be taken at 30 centimeters from the bottom sediment.  The required sampling regime is as follows:  - stations are at the limit of the farm management zone on each side of the farm, roughly 50 meters from the edge of enclosures;  - stations are at the limit of the farm management zone on each side of the farm, roughly 50 meters from the edge of enclosures;  - stations are at the limit of the farm management zone on each side of the farm, roughly 50 meters from the edge of enclosures;  - stations are at the limit of the farm management zone on each side of the farm roughly 50 meters from the edge of enclosures;  - stations are at the limit of the study of the farm management zone on each side of the farm roughly 50 meters from the edge of enclosures;  - stations are at the limit of the study are all the stations located at two reflected all two reflected at two r   |          |   | nutrient input to the water body since completion, request evidence that an updated  |  |     |  |  |  |  |
| Instruction to Clients for Indicator 8.27 and 8.28 - Monitoring TP and DO in Receiving Water for Open Smolt Systems  Farms must confirm that any smolt supplier using an open (net-pen) system is also engaged in monitoring of water quality of receiving waters. Requirements for the supplier's water quality monitoring program are presented in detail in Appendix VIII-6 and only re-stated briefly here. Monitoring shall sample total phosphorus program are presented in detail in the bottom of the cages. Samples are submitted to an acted idea boratory for analysis of TP to a method detection limit of C. 0.002 mg/L. D onessuments will be taken at 30 centimeters from the bottom sediment.  The required sampling regime is as follows:  - stations are at the limit of the farm analog waiting regime is as follows:  - stations are at the limit of the farm analog waiting regime to without (i.) farm analog waiting periods without (i.). For analog waiting periods without (i.), for adminish peak biomass; and samples are also collected at two reference stations located *12 km upcurrent and downcurrent from the farm.  Note: Some flexibility on the exact location and method of sampling is allowed to avoid smolt suppliers needing to duplicate similar sampling for their local regulatory regime.  8.277  Requirement: \$2.00 µg/l [153]  Applicability: All Smolt Producers Using Open Systems  Note: Some flexibility on the exact location and method of sampling is allowed to avoid smolt suppliers needing to duplicate similar sampling for their local regulatory regime.  a. Obtain from smolt suppliers the TP monitoring results for the past 12 months and calculate the average value at each sampling station.  c. Obtain from smolt suppliers the TP monitoring results for the past 12 months and calculate the average value for TP over the last 12 months did not exceed 20 µg/l at any of the sampling stations nor at the reference station.   | Footnote |   | [151] E.g., Government body  | or academic institution.   |     |  |  |  |  |
| Farms must confirm that any smolt supplier using an open (net-pen ly system is also engaged in monitoring of water quality of receiving waters. Requirements for the supplier's water quality monitoring program are presented in detail in Appendix VIII-6 and only restated briefly her. Monitoring shall sample total phosphorus and depth of the bottom of the cages. Samples are submitted to an accredited laboratory for analysis of TP to a method detection limit of < 0.002 mg/L. OD measurements will be taken at 50 centimeters from the bottom sediment.  The required sampling regime is as follows:  - all stations are identified with GPS coordinates on a map of the farm and/or available satellite imagery; - stations are at the limit of the farm management zone on each side of the farm, roughly 50 meters from the edge of enclosures; - the spatial arrangement of Stations is shown in the table in Appendix VIII-6; - sampling is done at least quarterly (1X per 3 months) during periods without ice, including peak blomass; and - samples are also collected at two reference stations located ~ 1-2 km upcurrent and downcurrent from the farm.  Note: Some flexibility on the exact location and method of sampling is allowed to avoid smolt suppliers needing to duplicate similar sampling for their local regulatory regime.  8.27  Requirement: <a href="#2 Dig/">2 Dig/"&gt;2 Dig/</a> [153]  Applicability: All Smoit Producers Using Open Systems  Applicability: All Smoit Producers Using Open Systems  Dig to the producers using open systems and accordance to show that smolt suppliers conducted water quality monitoring results for the past 12 months and calculate the average value at each sampling station.  C. Obtain from smoit suppliers a map with GPS coordinates showing the sampling locations.  C. Obtain from smoit suppliers a map with GPS coordinates showing the sampling locations.  C. Obtain from smoit suppliers and the average value for TP over the last 12 months did not exceed 20 ug/l at any of the sampling stations nor at the reference stat | Footnote | [152  | ] If the study is older than two years, and there has been a significant increase in nutrient inpu   | t to the water body since the completion of the study, a more recent assessment is required. |     |  |  |  |  |
| a. Obtain documentary evidence to show that smolt suppliers conducted water quality monitoring in compliance with the requirements of Appendix VIII-6.  b. Obtain from smolt suppliers a map with GPS coordinates showing the sampling locations.  c. Obtain from smolt suppliers the TP monitoring results for the past 12 months and calculate the average value at each sampling station.  d. Compare results to the baseline TP concentration established below (see 8.29) or determined by a regulatory body.  e. Confirm that the average value for TP over the last 12 months did not exceed 20 ug/l at any of the sampling stations nor at the reference station.  | 8.27     | concentration of the water body (see Appendix VIII-6)   | Farms must confirm that any smolt supplier using an open (net-pen) system is also engaged in monitoring of water quality of receiving waters. Requirements for the supplier's water quality monitoring program are pres Appendix VIII-6 and only re-stated briefly here. Monitoring shall sample total phosphorus (TP) and dissolved oxygen (DO). TP is measured in water samples taken from a representative composite sample through the w depth of the bottom of the cages. Samples are submitted to an accredited laboratory for analysis of TP to a method detection limit of < 0.002 mg/L. DO measurements will be taken at 50 centimeters from the botto The required sampling regime is as follows:  - all stations are identified with GPS coordinates on a map of the farm and/or available satellite imagery;  - stations are at the limit of the farm management zone on each side of the farm, roughly 50 meters from the edge of enclosures;  - the spatial arrangement of stations is shown in the table in Appendix VIII-6;  - sampling is done at least quarterly (1X per 3 months) during periods without ice, including peak biomass; and  - samples are also collected at two reference stations located ~ 1-2 km upcurrent and downcurrent from the farm. |  |     |  |  |  |  |
| Footnote [153] This concentration is equivalent to the upper limit of the Mesotrophic Trophic Status classification as described in Appendix VIII-7.   | 6.27     |   | monitoring in compliance with the requirements of Appendix VIII-6.  b. Obtain from smolt suppliers a map with GPS coordinates showing the sampling locations.  c. Obtain from smolt suppliers the TP monitoring results for the past 12 months and calculate the average value at each sampling station.  d. Compare results to the baseline TP concentration established below (see 8.29) or determined by a regulatory body.  e. Confirm that the average value for TP over the last 12 months did not exceed 20 ug/l at   | No net-pens, tanks only.   | N/A |  |  |  |  |
|  | Footnote |   | [153] This concentration is equivalent to the upper limit of the Mesotro   | ophic Trophic Status classification as described in Appendix VIII-7.                         |     |  |  |  |  |

|      |   |  | Note: see instructions for Indicator 8.27. |     |  |
|------|---|--|--|-----|--|
|      | Indicator: Minimum percent oxygen saturation of water<br>50 centimeters above bottom sediment (at all oxygen<br>monitoring locations described in Appendix VIII-6)                                  | a. Obtain evidence that smolt supplier conducted water quality monitoring in compliance with the requirements (see 8.27a).   |  |     |  |
| 8.28 | Requirement: ≥50%   | b. Obtain from smolt suppliers the DO monitoring results from all monitoring stations for the past 12 months.  | No net-pens, tanks only.                   | N/A |  |
|      | Applicability: All Smolt Producers Using Open Systems   | c. Review results (8.28b) to confirm that no values were below the minimum percent oxygen saturation.  |  |     |  |
|      |   | a. Obtain documentary evidence from the supplier stating the trophic status of water body if previously set by a regulator body (if applicable).   |  |     |  |
| 8.29 | Indicator: Trophic status classification of water body remains unchanged from baseline (see Appendix VIII-7)  | b. If the trophic status of the waterbody has not been classified (see 8.29a), obtain evidence from the supplier to show how the supplier determined trophic status based on the concentration of TP.  | No net-pens, tanks only.                   |     |  |
| 0.23 | Requirement: Yes  Applicability: All Smolt Producers Using Open Systems   | c. As applicable, review results from 8.29b to verify that the supplier accurately assigned a trophic status to the water body in accordance with the table in Appendix VIII-7 and the observed concentration of TP over the past 12 months. | no lect peris, dino only.                  | N/A |  |
|      |   | d. Compare the above results (8.29c) to trophic status of the water body as reported for all previous time periods. Verify that there has been no change.  |  |     |  |
|      | Indicator: Maximum allowed increase in total phosphorus concentration in lake from baseline (see  | a. Determine the baseline value for TP concentration in the water body using results from either 8.29a or 8.29b as applicable.   |  |     |  |
| 8.30 | Appendix VIII-7)  Requirement: 25%  | b. Compare the baseline TP concentration (result from 8.30a) to the average observed TP concentration over the past 12 months (result from 8.27e).   | No net-pens, tanks only.                   | N/A |  |
|      | Applicability: All Smolt Producers Using Open Systems   | c. Verify that the average observed TP concentration did not increase by more than 25% from baseline TP concentration.   |  |     |  |
| 8.31 | Indicator: Allowance for use of aeration systems or other technological means to increase oxygen levels in the water body  Requirement: None  Applicability: All Smolt Producers Using Open Systems | a. Obtain a declaration from the farm's smolt supplier stating that the supplier does not use aeration systems or other technological means to increase oxygen levels in the water bodies where the supplier operates.                       | No net-pens, tanks only.                   | N/A |  |

#### ADDITIONAL REQUIREMENTS FOR SEMI-CLOSED AND CLOSED PRODUCTION OF SMOLTS

Additionally, if the smolt is produced in a closed or semi-closed system (flow through or recirculation) that discharges into freshwater, evidence shall be provided that the following are met [157]:

### Instructions to Client for Indicators 8.32-8.35 - Requirement for smolts produced in open systems

Client shall provide documentary evidence to the CAB about the production system(s) from which they source smolt.

-If smolt used by the farm are not produced, for part or all of the growth phase from alevin to smolt, in open (net-pen) systems, indicators 8.32 - 8.35 are applicable.

-If the production system is closed or semi-closed and does not discharge into freshwater, Indicators 8.32 - 8.35 are not applicable to smolt producers as per [154]. For such an exemption, farms must provide documentary evidence to the CAB. Auditors shall fully document their rationale for awarding exemptions in the audit report.

| Footnote |   | [154] Production systems that don't discharge into   | fresh water are exempt from these standards.  |        |  |  |  |  |
|----------|---|--|---|--------|--|--|--|--|
|          | Indicator: Water quality monitoring matrix completed and submitted to ASC (see Appendix VIII-2)   | Obtain records from smolt suppliers showing that water quality monitoring was conducted at least quarterly (i.e. once every 3 months) over the last 12 months.   |   |        |  |  |  |  |
| 8.32     | Requirement: Yes [155]  Applicability: All Smolt Producers Using Semi-Closed or   | b. Obtain water quality monitoring matrix from smolt suppliers and review for completeness.  | Discharge into sea water  | N/A    |  |  |  |  |
|          | Closed Production Systems   | c. Submit the smolt supplier's water quality monitoring matrix to ASC as per Appendix VIII-2 and Appendix VI at least once per year.   |   |        |  |  |  |  |
| Footnote |   | [155] See Appendix VI for transpar   | rency requirements for 8.32.  |        |  |  |  |  |
|          | Indicator: Minimum oxygen saturation in the outflow   | a. Obtain the water quality monitoring matrix from each smolt supplier (see 8.32b).  |   |        |  |  |  |  |
| 8.33     | (methodology in Appendix VIII-2)  Requirement: 60% [156,157]  | b. Review the results (8.33a) for percentage dissolved oxygen saturation in the effluent to confirm that no measurements fell below 60% saturation.  | Discharge into sea water  |        |  |  |  |  |
|          | Applicability: All Smolt Producers Using Semi-Closed or<br>Closed Production Systems  | c. If a single DO reading (as reported in 8.33a) fell below 60%, obtain evidence that the smolt supplier performed daily continuous monitoring with an electronic probe and recorder for a least a week demonstrating a minimum 60% saturation at all times (Appendix VIII-2). |   |        |  |  |  |  |
| Footnote | [156] A single  | oxygen reading below 60 percent would require daily continuous monitoring with an electron   | ic probe and recorder for at least a week demonstrating a minimum 60 percent saturation at al | times. |  |  |  |  |
| Footnote |   | [157] See Appendix VI for transpar   | [157] See Appendix VI for transparency requirements for 8.33.                                 |        |  |  |  |  |
|          | Indicator: Macro-invertebrate surveys downstream from<br>the farm's effluent discharge demonstrate benthic health<br>that is similar or better than surveys upstream from the<br>discharge (methodology in Appendix VIII-3)<br>Requirement: Yes | Obtain documentation from smolt supplier(s) showing the results of macro-invertebrate surveys.   |   |        |  |  |  |  |
| 8.34     |   | b. Review supplier documents (8.34a) to confirm that the surveys followed the prescribed methodology (Appendix VIII-3).  | Discharge into sea water  | N/A    |  |  |  |  |
|          | Applicability: All Smolt Producers Using Semi-Closed or<br>Closed Production Systems  | c. Review supplier documents (8.34a) to confirm the survey results show that benthic health is similar to or better than upstream of the supplier's discharge.   |   |        |  |  |  |  |
|          | Indicator: Evidence of implementation of biosolids  | a. Maintain a copy of smolt supplier's biosolids (sludge) management plan and confirm that the plan addresses all requirements in Appendix VIII-2.   |   |        |  |  |  |  |
| 8.35     | (sludge) Best Management Practices (BMPs) (Appendix VIII-4)   | b. Obtain from smolt suppliers a process flow diagram (detailed in Appendix VIII-2) showing how the farm is dealing with biosolids responsibly.  | Discharge into sea water  | N/A    |  |  |  |  |
| 6.33     |   | c. Obtain a declaration from smolt supplier stating that no biosolids were discharged into natural water bodies in the past 12 months.   | production for model  | 14/7   |  |  |  |  |
|          |   | d. Obtain records from smolt suppliers showing monitoring of biosolid (sludge) cleaning maintenance, and disposal as described in Appendix VIII-2.   |   |        |  |  |  |  |



### 11 Findings

- 11.1 DO NOT DELETE ANY COLUMN
- 11.2 Columns B/C/D/E (in black) are automatically populated from the species checklist/audit manual
- 11.3 Each NC is raised against a standard indicator or a CAR requirement
- 11.4 Use the "sort" function for presenting the list to your liking (e.g. grading, status, closure deadline, etc.)

### 11.5 Add new rows as needed

11.6 Adjust the column wide as needed - to show the whole text

| 2040 1 333 1 4 2 2 6 |  |                             | detection  | Status | Root cause (by client)                                  | and accepted by CAB                                 | NC close-out | Evaluation by CAB (including evidence) | Actual date of close- | Date request<br>for delay<br>received | Justification for delay | Next<br>deadline | Request evaluation<br>by CAB | Date<br>request<br>approved |
|----------------------|--|-----------------------------|------------|--------|---|---|--------------|--|-----------------------|---------------------------------------|-------------------------|------------------|------------------------------|-----------------------------|
| 2019-Initial-1 2.2.6 | The storage for chemicals was missing collection for chemicals | On-site visit on 10-12-2019 | 10-12-2019 | Closed | Lack of attention to task.<br>This is supposed to be in |   | 10-12-2020   | The root cause and corrective/preventi | 05-01-2020            |                                       |                         |                  |                              |                             |
|                      | nad and several paint cans was                                 |                             |            |        |   | recieved it. Additional                             |              | ve action proposed                     |                       |                                       |                         |                  |                              |                             |
|                      | placed outside. The storage for                                |                             |            |        |   | collectors and a seperate                           |              | by client, is                          |                       |                                       |                         |                  |                              |                             |
|                      | formic acid was not locked.                                    |                             |            |        |   | chemichal closet is                                 |              | accepted. The                          |                       |                                       |                         |                  |                              |                             |
|                      |  |                             |            |        |   | ordered. Paint cans are                             |              | evidence of the                        |                       |                                       |                         |                  |                              |                             |
|                      |  |                             |            |        |   | placed inside in collectors.                        |              | implementation is                      |                       |                                       |                         |                  |                              |                             |
|                      |  |                             |            |        |   | Storage for formic acid is<br>locked. (see seperate |              | also approved.                         |                       |                                       |                         |                  |                              | 1 1                         |
|                      |  |                             |            |        |   | sheet for NC  |              |  |                       |                                       |                         |                  |                              |                             |
|                      |  |                             |            |        |   | documentation)                                      |              |  |                       |                                       |                         |                  |                              |                             |

Summary of findings - ASC Salmon Standard



# **ASC Audit Report - Traceablity**

| 10 | Traceability Factor   | Description of risk factor if present. | Describe any traceability, segregation, or other systems in place to manage the risk.  |
|----|---|--|--|
|    | The possibility of mixing or substitution of certified and non-certified product, including product of the same or similar appearance or species, produced within the same operation.   | NA                                     | No risk of substitution of certified with non-certified product within the unit of certification as all salmon in the farm is within the scope of the ASC SalmonStandard audit.  |
|    | The possibility of mixing or substitution of certified and non-certified product, including product of the same or similar appearance or species, present during production, harvest, transport, storage, or processing activities. | NA                                     | No risk of substitution of certified with non-certified product within the unit of certification as all salmon in the farm is within the scope of the ASC Salmon Standard audit.  Transports are always identifiable on production unit level (cage).  Transport from one seasite to the slaughterhouse at the time, only. |
|    | The possibility of subcontractors being used to handle, transport, store, or process certified products.  | NA                                     | NA. Within the unit of certification no subcontractor is used to handle the fish.  |
|    | Any other opportunities where certified product could potentially be mixed, substituted, or mislabelled with non-certified product before the point where product enters the chain of custody.                                      | NA                                     | No other possibility for mixing products.  |



Reason(s)

| 10.4.a                                  | Total number of sites owned/subcontracted by |
|---|--|
|   | client producing the same species that is    |
|   | included in the scope of certification       |
| Number of sites included in the unit of |  |
|   | certification                                |

| Owned by client | Subcontracted by client |
|-----------------|-------------------------|
| 1               |                         |
| 1               |                         |

10.4.b Site(s) within UoC that has product to be excluded from entering the chain of custody

The company has a robust and well implemented quality system, which covers the whole organization from smolt to finished

Site name(s)

10.5 Detail description of the flow of certified product within the operation and the associated traceability system which allows product to be traced from final sale back to the unit of certification

All stages of fish live cycle within the scope of this certification standard are traceable. Documents describe a satisfactory control with incoming products, from own freshwater sites, and corresponding documentation of production site, suppliers lists and reception control, both in harvesting and processing.

slaughtered fish. The company is certified according to GLOBALG.A.P in the whole production chain.

Digital information is handled in Fish Talk for all freshwater stages and on-growing phase in seawater. Subsequent harvest, processing and sales are handled in Innova/Maritech system. It comprises sufficient information of traceability from Broodstock and ova, via smolts to harvestable fish, purchases, invoices and suppliers registers.

The harvest plants are; Cermaq Norway Steigen N-2284, Bogøyveien 153, BOGØY, Norway. ASC-C-01773, Exp. date 2021-08-02. Ref. to www.asc-aqua.org where updated information can be found.



### 10.6 Traceablity Determination:

| 10.6.1 The traceability and segregation systems in the operation are sufficient to ensure all products identified and sold as certified by the operation originate from the unit of certification, or                                 | The traceability and segregation system is ASC compliant.   |
|---|---|
| 10.6.2 The traceability and segregation systems are not sufficient and a separate chain of custody certification is required for the operation before products can be sold as ASC-certified or can be eligible to carry the ASC logo. | The traceability and segregation system is ASC compliant.   |
| 10.6.3 The point from which chain of custody is required to begin   | From the point where the fish is harvested at the cages. During transport from the cages to the slaughterhouse the fish will be covered by the slaughterhouse CoC certification. The harvest plants are; Cermaq Norway Steigen N-2284, Bogøyveien 153, BOGØY, Norway. ASC-C-01773, Exp. date 2021-08-02. Ref. to www.asc-aqua.org where updated information can be found. |
| 10.6.4 If a sepearate chain of custody certificate is required for the unit of certification  | No  |

# For Multi-site clients



## **ASC Audit Report - Closing**

### 12 Evaluation Results

12.1 A report of the results of the audit elements in the standard and guidance documents

The evaluation of the company's compliance to the requirements in the ASC Salmon of the operation against the specific Standard and all references and findings is described in detail in the report section II Audit template and section IV Audit Report Closing.

> Most of the principles where full compliance, howevere, one minor NC was found during the audit on inidicator 2.2.6.

VRs used during audit:

- VR nr.39 approved 15.09.2014 by ASC on phosphorus release from smolt producer.
- VR nr.97 approved 20.08.2015 by ASC for indicator 5.2.5 for PTI Calculations when Slice is used for treatment against sea lice.
- VR 136 approved on 02/03/2016 by ASC: It is a breach of Norwegian ragulations for the applicant to conduct sealice counts in wild salmonids, unless the applicant is a recogniced researsch institute with government aknowledgement. -VR nr.179 approved 24.08.2016 by ASC for audit reports in local language.
- -VR nr.225 approved 23.04.2018 by ASC for indicator 7.1.1, reducing stakeholders / community meetings in-person from bi-annually to once every year.

VR list and updated documentation for VR can be found on the ASC website: http://variance-requests.asc-aqua.org/.

12.2 A clear statement on whether or not the audited unit of certification has the capability to consistently meet the objectives of the relevant standard(s)

Site Horsvågen has the capability to meet the ASC salmon standard.

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| 123 In cases where BEIA or PSIA is available, it shall be added in full to the audit report. IF these documents are not in English, then a synopsis in English shall be added to the report. | NA  |  |  |  |
|--|---|--|--|--|
| 13 Decision  |   |  |  |  |
| 13.1 Has a certificate been issued? (yes/no)   | No  |  |  |  |
| 13.2 The Eligiblity Date (if applicable)   |   |  |  |  |
| 13,3 Is a separate CoC certificte required for the producer? (yes/no)  | No  |  |  |  |
| 13.4 If a certificate has been issued this section shall include:  | No  |  |  |  |
| 13.4.1 The date of issue and date of expiry of the certificate.  |   |  |  |  |
| 13.4.2 The scope of the certificate  | ASC Salmon. Production species: Salmo salar |  |  |  |

CAR v.2.1 - Audit report - Closing



13.4.3 Instructions to stakeholders that any complaints or objections to the CAB decision are to be subject to the CAB's complaints procedure. This section shall include information on where to review the procedure and where further information on complaints can be found.

Stakeholders are welcome to contact Bureau Veritas on E-mail: asc.farm@dk.bureauveritas.com. Information on Bureau Veritas complaints procedure is available on www.bureauveritas.dk.

### 14 Surveillence

14.1 Next planned Surveillance

14.1.1 Planned date

14.1.2 Planned site

14.2 Next audit type

14.2.1 Surveillence 1

14.2.2 Surveillance 2

14.2.4

dec-20

Horsvågen

14.2.3 Re-certification Other (specify type)

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