

## 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
PDF 1.2 Date of Submission	03-12-2019/21-01-2020

### **PDF 1.3 CAB Contact Person**

act Person	
PDF 1.3.1 Name of Contact Person	Mohammad Jasour
PDF 1.3.2 Position in the CAB's organisation	Lead Auditor
PDF 1.3.3 Mailing address	Oldenborggade 25-31, 7000 Fredericia, 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
PDF 1.4.1.a Name of the unit of certification	Hundbergan 10796
PDF 1.4.2 Name of Contact Person	Silje Ramsvatn
PDF 1.4.3 Position in the client's organisation	Sustainability manager
PDF 1.4.4 Mailing address	Nordfoldveien 165, 8286 Nordfold, Norway
PDF 1.4.5 Email address	silje.ramsvatn@cermaq.com
PFD 1.4.6 Phone number	0047 41148216
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 site and indicate if they are in the scope of the standard	Ownership status (owned/ subcontracted)	Date of planned audit and type of audit (Initial, SA1, SA2, recertification, etc.)	Status (new, in production/ fallowing /in harvest)
Hundbergan 10796	N: 70.192900 E: 21.817935	Salmon (Salmo Salar) In scope	Owned	04 05.02.2020 Initial audit	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 1.3 - December 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 audit	How to involve this stakeholder (in- person/phone interview/input submission)	When stakeholder may be contacted	How this stakeholder will be contacted
WWF-Norge	NGO	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Norske Lakseelver	NGO	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit



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



AL ACTIVE C. I. I.				
Norges Miljøvernforbund	NGO	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Norges Fiskarlag	NGO	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Miljødirektoratet	Authorities	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Finnmark Fylkeskommune	Local Municipality	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Loppa kommune	Local Municipality	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Fylkesmannen i Troms og Finnmark	regional office	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Reindriftsforvaltningen Vest-Finnmark	Local interest organisation	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Vest-Finnmark Kystfiskarlag	Local Fishermens` Association	Invitation to participate in the	The week before audit	Sending e-mail before Audit



Langfjordhamn Bygdelag	Local interest organisation	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Ytre Loppa Jeger- og Fiskeforening	Local interest organisation	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Sør-Tverrfjord Bygdelag	Local interest organisation	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Vestre Loppa Utviklingslag	Local interest organisation	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Bergsfjord Utviklingslag	Local interest organisation	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit



## **PDF 1.9 Proposed Timeline**

Signed:	29-11-2018
udit:	04.02.2020
udit(s):	04 05.02.2020
ation/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 can be max 3 months.
	Signed: udit: udit(s): ation/Decision:

## PDF 1.10 Audit Team

PDF 1.10.1 PDF 1.10.2 PDF 1.10.3

Column1	Name	ASC Registration	
Lead Auditor	Mohammad Ja	Mohammad Jasour	
Team member	Megan Konsta	Megan Konstantinidou	
Social Auditor	Mohammad Ja	Mohammad Jasour	



# **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 surveillance 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 Certification Report/ Final certification report/Surveillance	04-02-2020 Cermaq Hundbergan ASC Initial Audit DRAFT Report
report]	
1.3 CAB name	Bureau Veritas Certification Denmark A/S
1.4 Name of Lead Auditor	Mohammad Jasour
1.5 Names and positions of report	Report Author: Mohammad Jasour, ASC Lead Auditor.
authors and reviewers	Reviewer: Trygve Helle, ASC Lead auditor
1.6 Client's Contact person: Name and	Silje Ramsvatn, Sustainability manager
Title .	Ingunn Johnsen, Sustainability coordinator
1.7 Date	Date of audit 04-02-2020. Date of report writing: 12-02-2020. Date of technical review 14-03-2020
2 Table of Contents	
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## 3 Glossary

this audit report and that are not otherwise defined in the ASC glossary

Terms and abbreviations that are specific to B- and C-investigations are surveys of benthic environment at or near farm, according to NS 9410 (Norwegian Standard 9410).

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

Olex software: calculates a sea floor map using data from GPS and echosounder. For each new measured depth, the 2D map (or 3D with a virtual camera) improves. The survey takes place automatically and requires no operation.

ABM: Area based management; CAB: Conformity assessment body; NFSA: Norwegian Food Safety Authority; MTB: Maximum Allowed Biomass; FHP/FHMP: Fish Health plan; GG: GLOBALG.A.P.; GGN is GLOBALG.A.P. number; MH: Marine Harvest; FW: Fresh Water; TQM: Total Management System; MRL: Maximum Residue Limits; PPE: Personal Protective Equipment; OHAS/H&S: Occupational Health and Safety; BNW: Basic Needs Wage; Sami: The indigenous people in Norway; FHL: Fisheries and fishfarmers interest organization; NINA/IMR/ NOFIMA are all Natural and Marine Research Institute; FH: Fish Health; FHM: Fish Health Manager; NIFES: National Institute of Nutrition and Seafood Research; TU: Trade Unions; IUCN: International Union for the Conservation of Nature; ROV: Remotely Operated Vehicle; MT: metric tonnes; HPR: Health Personnel Register; IPNV: Infectious Pancreatic Necrosis Virus; SAV: Salmonid alphavirus; PDV:Pancreas Disease Virus; HSMB: heart and Skeletal Muscle Disease; ILA: Infectious Salmon Aneamia; POX: Salmon gill pox virus



## 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)	his audit covers all the principles and criteria in ASC salmon standard, Version 1.3 - July 2019. he audit include interview of the farm workers and review of documentation. Audit covering principle was performed by review of relevant documentation, interviews with the quality management and onfidential interviews with the employees. The interview was performed without interruption from nanagement. Harvest was not observed at this initial audit.				
4.2	A brief description of the operations of the unit of certification	ongrowing farm for Atlantic S farm is located in Øyfjorden-y	e entire Hundbergan seafarm, site num salmon from smolt and until the salmon tre waterbody in Senja municipality in ith the size of 120 m. The MTB is 3480 t	is ready for slaughtering. The Finnmark County. The production		
4.3	Type of unit of certification (select only one type of unit of certification in the list)	Single farm, Owned				
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	Owned by client	Subcontracted by client			
	Initial audit - mm/yyyy Surveillance audit 1 - mm/ yyyy	1 02/2020				
	Surveillance audit 2 - mm/ yyyy					
	Recertification audit - mm/ yyyy					

4.5 A summary of the major findings

6 minor NCs were raised on the indicators 2.1.1, 2.1.2, 2.1.3, 2.3.1, 4.7.4, and 6.5.2.



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 1.3

### **5 CAB Contact Information**

5.1 CAB	Name
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5.2 CAB Mailing Address

5.3 Email Address

5.4 Other Contact Information

## Bureau Veritas Certification Denmark A/S

Oldenborggade 25-31, 7000 Fredericia, Denmark

asc.farm@bureauveritas.com

www.bureauveritas.dk

## 6 Background on the Applicant

- 6.1 Information on the Public Disclosure Form (Form 3) except 1.2-1.3. All information updated as necessary to reflect the audit as conducted.
- **6.2** A description of the unit of certification (for intial audit) / changes, if any (for surveillance and recertification audits)

**6.3** Other certifications currently held by the unit of certification

Hundbergan is a conventional floating cage salmon farm. The 8 production cages are circular floating plastic rings with the dimension 120 m circumference, with pointed nets. Central on the farm is a feed barge, with centralized feeding system and visual/camera control of feeding. All installations are certified after "NS-9415 NYTEK" regulations standard.Register, details and maps of location for the site available at: http://www.fiskeridir.no/register/akvareg/

GlobalGAP



6.4	Other certification(s) obtained by the UoC before this audit	
6.5	Estimated annual production volumes of the unit of certification of the <u>current</u> year	3500 mt
6.6	Actual annual production volumes of the unit of certification of the <u>previous</u> year (mandatory for surveillance and recertification audits)	4221 mt
6.7	Production system(s) employed within the unit of certification (select one or more in the list)	Floating net-pens/cages
6.8	Number of employees working at the unit of certification (see notes in comment to this cell )	6 permanent employees plus a site manager.
6.9	Size, and/or number of ponds, pens (if multi site, per site)	8 circular plasticcages with the dimension 120 m circumference (volume: 24622 m3)
7 Scope		
7.1	The Standard(s) against which the audit was conducted, including version number	ASC Salmon Standard, version 1.3 July 2019
7.2	The species produced at the applicant farm (in English and Latin names)	Atlantic Salmon (Salmo salar)



A description of the scope of the audit 7.3 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 including a description of whether the unit of interviews conducted with relevant staff of the site Hundbergan in which Salmo salar is grown. certification covers all production or harvest Demonstrations of equipment and processes took place, relevant to the scope of the audit, according to the ASC Salmon Standard v1.3. 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).

The names and addresses of any storage, 7.4 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. The CoC starts when fish have left the cage onto the wellboat og slaughterboat.

7.5 Description of the receiving water body(ies).

The farm is located in municipaity of Senja Loppa in Finnmark country. Sites receiving water-body is Øyfjorden-ytre. 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 defined as good.

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

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

ASC Lead Auditor: Mohammad Jasour

Audit date: 04-02-2020 Draft report: 12-02-2020

Reviewing the report: 14-03-2020 Trygve Helle, ASC Lead Auditor

Certification decision: 17-03-2020 - Annette Kaalund

Previous Audits (if applicable): 8.2

> 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 e clause reference	Closing deadline - status - closing date of each NC



#### Audit plan as implemented including: 8.3

		Dates	Locations
8.3.1	Desk Reviews	jan-19	Bureau Veritas Certification, Fredericia, Denmark
8.3.2	Onsite audits	04.02.2020 05.02.2020	Main office Cermaq Norway AS, Finnmark, Norway Hundbergan site
8.3.3	Stakeholder interviews and Community meetings		No inputs from stakeholders received after submitted audit notifications or in audit process.
8.3.4	Draft report sent to client	17-03-2020	Bureau Veritas Certification, Fredericia, Denmark
8.3.5	Draft report sent to ASC	17-03-2020	Bureau Veritas Certification, Fredericia, Denmark
8.3.6	Final report sent to Client and ASC		

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

Silje Ramsvatn, Sustainability manager Benedicte Warland, Fish Health Area manager 1 Site managers with 3 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 stakeholde (if permission given to make name public)		Date of contact	CAB responded Yes/No	Brief summary of points Raised	Use of comment by CAB	Response sent to stakeholder
8.6 E5.1.i List of sinitial audit an						
<ul><li>8.6. E5.1.ii Justific</li><li>1 conditions un</li></ul>						
8.7 E5.1.1.i List or	f sites removed after the initial audit					
8.7. E5.2.2 Reasor 1 certificate.	• • • • • • • • • • • • • • • • • • • •					
XX	E5.4 Map of sites included in the unit of certification has been attached					
0.0	fallowing period included in the audit eillance and re-certification audits)					

### Audit report- ASC Salmon Standard v.1.3

Corresponds to Salmon standard v. 1.3

		PRINCIPLE 1: COMPLY WITH ALL APPLICABLE NATIONAL LAWS AND Criterion 1.1 Compliance with all applicable local and national legal req				
	Indicator	Compliance Criteria (Use as guidance for audit only)	Audit evidence  1. Write down all audit evidence. Audit evidence (including evidence of conformity and nonconformity) should be recorded so that the audit can be repeated by a different audit team.  2. Replace explanitory text.  3. If you see any Compliance Criteria which is not listed below, please describe also in the cells below.  A. Review compliance with applicable land and water use laws.	Evaluation (Per indicator, select one category in the drop-down menu)	Description of NC Provide an explanation of the reason(s) for the classification of any NCs or non- applicability	Value/ Metric Provide values - if applicable for the respective Indicator
		a. Maintain digital or hard copies of applicable land and water use laws.	a) Electronic copies of laws, regulations and requirements with references to     Lovdata with updates and electronic links in Intelex system. Covered by internal     procedures in QMS. Strict monitored by relevant authorities on these issues.			
1.1.1	Indicator: Presence of documents demonstrating compliance with local and national regulations and requirements on land and water use  Requirement: Yes  Applicability: All	b. Maintain original (or legalised copies of) lease agreements, land titles, or concession permit on file as applicable.	c) No inspections from authorities  d) Directorate of Fisheries (https://www.fiskeridir.no/) manage the Aquaculture Act of 17 June 2005 no. 79 relating to aquaculture. According to § 15 Relationship to land use plans and conservation measures; aquaculture licenses may not be			
		c. Keep records of inspections for compliance with national and local laws and regulations (if such inspections are legally required in the country of operation).		Compliant		
		d. Obtain permits and maps showing that the farm does not conflict with national preservation areas.	(http://lakseregister.fylkesmannen.no/a3_laksekart/Lakseregisteret). The EU maintain biodiversity map: http://natura2000.eea.europa.eu/, but			
	Indicator: Presence of documents demonstrating compliance with all tax laws	a. Maintain records of tax payments to appropriate authorities (e.g. land use tax, water use tax, revenue tax). Note that CABs will not disclose confidential tax information unless client is required to or chooses to make it public.	dt.01.07.2019 by Deloitte			
1.1.2	Requirement: Yes	b. Maintain copies of tax laws for jurisdiction(s) where company operates.	b) Lovdata access to updated versions in quality system Intelex	Compliant		
	Applicability: All	c. Register with national or local authorities as an "aquaculture activity".	c) Verified registered in "Enhetsregisteret" with industry code 03.211 Production of fish and shellfish in sea and coast based aquaculture. https://w2.brreg.no/enhet/sok/detalj.jsp?orgnr=961922976			

	Indicator: Presence of documents demonstrating compliance with all relevant national and local labor laws and regulations  Requirement: Yes  Applicability: All	Maintain copies of national labor codes and laws applicable to farm (scope is restricted to the farm sites within the unit certification.)	a) Lovdata access to updated versions in quality system Intelex b) No inspection from NLA (Arbeidstilsynet)		
1.1.3		b. Keep records of farm inspections for compliance with national labor laws and codes (only if such inspections are legally required in the country of operation).		Compliant	
	Indicator: Presence of documents demonstrating	a. Obtain permits for water quality impacts where applicable.	a, b) Approved operating plan for 2020-2021 from Fisheries Directorate dated 02.10.2019 with reference number of AR33810591. Discharge permit from Fylkesmannen i Finnmark, date 11.02.2019 Discharge permit for 3480 tonn MTB.  Marine and enviromental impact assesmet (MOM-B and MOM-C survey) are also performed by an acredited company for test 303 (sampling on sea sediments) once during the production period.  c) MTB reported to government/ Altinn end of month (Last MTB reported on: 07.01.2020). Environmental reports and surveys reported to Altinn approximately 1 month after felt sampling done and results available from contractor. Available in https://yggdrasil.fiskeridir.no/. No indications of non compliance.		
		b. Compile list of and comply with all discharge laws or regulations.			
		c. Maintain records of monitoring and compliance with discharge laws and regulations as required.		Compliant	

#### PRINCIPLE 2: CONSERVE NATURAL HABITAT, LOCAL BIODIVERSITY 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.

		d on whether there is a risk that such changes would jeopardize the intent and rigor of the ASC S odology are fully described and justified in the audit report.	Salmon Standard. If the CAB determines that proposed modifications are low risk,					
		Note: Under Indicator 2.1.1, farms can choose to measure redox potential (Option #1) or sulph both threshold values.	ide concentration (Option #2). Farms do not have to demonstrate that they meet					
	Indicator: Redox potential or [2] sulphide levels in sediment outside of the Allowable Zone of Effect (AZE) [3], following the sampling methodology outlined in Appendix!  Requirement: Redox potential > 0 mV or Sulphide ≤ 1,500 µмы/L  Applicability: All farms except as noted in [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.						
		b. If benthos throughout the full AZE is hard bottom, provide evidence to the CAB and request an exemption from 2.1.1c-f, 2.1.2 and 2.1.3.	regime (MOM-C hybrid - ASC adapted). Modified MOM-C according to NS9410 (Norwegian authortites and legislation requirement). Point adapted to bathymetric conditions. Performed by an acredited company for test 303	Minor	A minor NC			
		c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard.				MOM-C hybrid - ASC		
		d. Collect sediment samples in accordance with the methodology in Appendix I-1 (i.e. at the time of peak cage biomass and at all required stations).			because sediments are not sampled at the time of	adapted performe d by Akvaplan Niva AS on		
		e. For option #1, measure and record redox potential (mV) in sediment samples using an appropriate, nationally or internationally recognized testing method.			peak cage biomass.	02.10.201		
		f. For option #2, measure and record sulphide concentration ( $\mu$ M) using an appropriate, nationally or internationally recognized testing method.						
		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.						
Footnote		[2] Farm sites can choose whether to use redox or sulphide. Farms 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 robust and credible modeling system such as the SEPA AUTODEPOMOD and verified through monitoring, the site-specific AZE shall be used.							

		Notes: - Under Indicator 2.1.2, farms can choose one of four measurements to show compliance with #2); BQI (Option #3); or ITI (Option #4). Farms do not have to demonstrate that they meet all for- If a farm is exempt due to hard bottom benthos (see 2.1.1b), then 2.1.2 does not apply and the	ur threshold values.			
		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.	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	Minor	A minor NC	
	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]	c. Collect sediment samples in accordance with Appendix I-1 (see 2.1.1).	bathymetric conditions. Performed by an acredited company for test 303 (sampling on sea sediments): Akvaplan Niva AS on 02.10.2019. The sediment sampling have not been taken at peak max biomass.		the time of peak cage biomass. The results palso showed	
		d. For option #1, measure, calculate and record AZTI Marine Biotic Index [5] score of sediment samples using the required method.	c) Van Veen grab used according to site specific MOM-C (NS9410)  d) #2 Shannon Wiener used e) Results show that the Shannon Weinar was 2.53 to 4.33. Sampling station C4 outside AZE had SH values of 2.53, not ASC compliant.  f) Shannon-Wiener Index score used g) Shannon-Wiener Index score used th) MOM-C as per national regulations (NS 9410) ASC adapted (ISO 16665 on faunal). Independent laboratory acredited for test 303 (sampling on sea sediments)has performed the sampling and calculation of faunal index.			MOM-C hybrid - ASC adapted
		e. For option #2, measure, calculate and record Shannon-Wiener Index score of sediment samples using the required method.				performe d by Akvaplan Niva AS on
		f. For option #3, measure, calculate and record Benthic Quality Index (BQI) score of sediment samples using the required method.			Shannon Weinar of station C4 outside AZE had SH	9
		g. For option #4, measure, calculate and record Infaunal Trophic Index (ITI) score of sediment samples using the required method.			values of 2.53, not ASC compliant.	
		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.				
		i. Submit faunal index scores to ASC (Appendix VI) at least once for each production cycle.				
Footnote	[4] "Good" Ecological Quality Classification	The level of diversity and abundance of invertebrate taxa is slightly outside the range associate	d with the type-specific conditions. Most of the sensitive taxa of the type-specific co	ommunities are	present.	
Footnote		[5] http://www.azti.es/en/ambi-azti-marine-bi	otic-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.	a, 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 an acredited company for test 303 (sampling on sea sediments): Akvaplan Niva AS on 02.10.2019. The sediment sampling have not been taken at peak max biomass.  c) Results show that the non polluter indicator species are compliant with having 3 species  d) MOM-C as per national regulations (NS 9410) ASC adapted (ISO 16665 on faunal). Independent laboratory acredited for test 303 (sampling on sea sediments)has performed the sampling and calculation of faunal index.  e) Will be submitted to ASC	Minor	A minor NC is raised because sediments are not sampled at the time of peak cage biomass.	MOM-C hybrid - ASC adapted performe d by Akvaplan Niva AS on 02.10.201 9		
Footnote		[6] Highly abundant: Greater than 100 organisms per square meter (or equally high to refe	erence site(s) if natural abundance is lower than this level).					
	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	robust and credible modelling system  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, b, c) Site-specific sampling regime (MOM-C - ASC adapted/Modified MOM-C according to NS- 9410 (Norwegian Standard Authortites and legislation requirement) specified in NS-9410. Survey developed and performed by Akvaplan Niva, an acredited company for test 303 (sampling on sea sediments)					
		c. Maintain records to show that modeling results for the site-specific AZE have been verified with > 6 months of monitoring data.						
Footnote	otnote [7] Robust and credible: The SEPA AUTODEPOMOD modeling system is considered to be an example of a credible and robust system. The model must include a multi-parameter approach. Monitoring must be used to ground-truth the AZE proposed through the model.							

	Criterion 2.2 Water quality in and near the site of operation [8]								
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):						
Footnote		[8] See Appendix VI for transparency requirements for 2.	2.1, 2.2.2, 2.2.3 and 2.2.5.	ı					
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]  Applicability: All farms except as noted in [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 average as 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 ariality 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 by each week, all DO measurements are used in the calculation of a weekly average percent saturation in the analysis of the farm shall provide the audit in limited and well-justified situations, farms may request that the CAB approve reduction of D  Exception [see footnote 12] If a farm does not meet the minimum 70 percent weekly average saturation with a reference site. The reference site shall be at least 500 meters from the edge upwelling to the farm site and is not influenced by nutrient inputs from anthropogenic causes i communities. For any such exceptions, the auditor shall fully document in the audit report how Note 1: Percent saturation is the amount of oxygen dissolved in the water sample compared to salinity.	fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm ) as appropriate for the location and season;  If the fermoon (3-6 pm						
		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 18/2019 til week 3/2020 for the current generation	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.						
		e. Arrange for auditor to witness DO monitoring and calibration while on site.	f) Will be submitted to ASC						
		f. Submit results from monitoring of average weekly DO as per Appendix VI to ASC at least once per year.							
Footnote	[9] Percent satu	ration: Percent saturation is the amount of oxygen dissolved in the water sample compared to the	ne maximum amount that could be present at the same temperature and salinity.						
Footnote		[10] Averaged weekly from two daily measurements (pro	posed at 6 am and 3 pm).						
Footnote		[11] An exception to this standard shall be made for farms that can demonstrate con	sistency with a reference site in the same water body.						

2.2.2	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) Will be submitted to ASC	Compliant		
	Indicator: For jurisdictions that have national or regional jurisdictions that have national or regional jurisdictions that have national or regional jurisdictions that the farm is in an area recently [13] classified as having "good" or "very good" water quality [14]	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  b. Compile a summary of relevant national or regional water quality targets and classifications, identifying the third-party responsible for the analysis and classification.	a-c) EU Water Directive 2000 gives Water quality objectives for waterbody Øksfjorden-Ytre, area Alta, Kautokeino, Loppa og Stjernøya (ref. "vannportalen.no) with ecological conditions and chemical condition as good	Compliant		
	Requirement: Yes [15] 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, chlor				
Footnote	fall classifications	[13] Within the two years prior to the f "good" and "very good" are used in the EU Water Framework Directive. Equivalent classificatic				
Footnote		rate the collection and responsible disposal of > 75% of solid nutrients as well as > 50% of dissolv			2.2.3 and 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.	NA: Se 2.2.3	N/A		
2.2.4	Requirement: Consistency with reference site	b. Calibrate all equipment according to the manufacturer's recommendations.		N/A		
	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] Farr	ns shall monitor total N, NH4, NO3, total P and Ortho-P in the water column. Results shall be sub	omitted to the ASC database. Methods such as a Hach kit are accentable			

2.2.5	Indicator: Demonstration of calculation of biochemical oxygen demand (BOD [17]) of the farm on a production cycle basis  Requirement: Yes  Applicability: All	Instruction to Clients for Indicator 2.2.5 - Calculating Biochemical Oxygen Demand Biochemical Oxygen Demand (BOD) can be calculated based on cumulative inputs of N and C to BOD = ((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 refers to harvested fish. In this case, farm must submit breakdown of N & C captured/filtered/i • Reference for calculation methodology: Boyd C. 2009. Estimating mechanical aeration req World Aquaculture Society Meeting; Sept 25-29, 2009; VeraCruz, Mexico. And: Global Aquacult http://web.uvic.ca/~gapi/explore-gapi/bod.html.  Note 1: Calculation requires a full production cycle of data and is required beginning with the p client is required to demonstrate to the CAB that data is being collected and an understanding  Note 2: Farms may seek an exemption to Indicator 2.2.5 if: the farm collects BOD samples at le laboratory, and the farm can show that BOD monitoring results do not deviate significantly from	as IMTA or through direct collection of nutrient wasted. In this equation, "fish" absorbed to ASC along with method used to estimate nutrient reduction. uirement in shrimp ponds from the oxygen demand of feed. In: Proceedings of the ture Performance Index BOD calculation methodology available at production cycle first undergoing certification. If it is the first audit for the farm, the of the calculations.  ast once every two weeks, samples are independently analyzed by an accredited		
		a. Collect data throughout the course of the production cycle and calculate BOD according to formula in the instruction box.	a) Data is collected and calculations is done.  BOD calculated to 867.39 kg O2 for current production cycle, harvest has not been completed yet. Current production is on going. Final BOD will be calculated after the harvest. BOD for last complete production cycle in 2012: 2469.33 kg O2.  BOD for current G= ((total N in feed: 143.29 – total N in fish: 64.56 )*4.57) +	Compliant	
		b. Submit calculated BOD as per Appendix VI to ASC for each production cycle.	((total C in feed: 1266.11 – total C in fish: 1076)*2.67)  BOD for previous G= ((total N in feed: 299.78 – total N in fish: 121.73)*4.57) + ((total C in feed: 2648.92 – total C in fish: 2028.83)*2.67)  b) Will be submitted to ASC		2469,33
Footnote		*4.57) + ((total C in feed – total C in fish)*2.67). A farm may deduct N or C that is captured, filter dology: Boyd C. 2009. Estimating mechanical aeration requirement in shrimp ponds from the oxy Global Aquaculture Performance Index BOD calculation methodology available at	gen demand of feed. In: Proceedings of the World Aquaculture Society Meeting; Se		
	Indicator: Appropriate controls are in place that maintain good culture and hygienic conditions on the farm which extends to all chemicals, including veterinary drugs,	a. Document control systems in good culture and hygene that includes all appropriate elements.	a) Procedure "Hygienereglement - Matfisk" ID 127, Prosedure "Prosedyre for oppbevaring håndtering av kjemikalier og gasser", ID		
2.2.6	thereby ensuring that adverse impacts on environmental	b. Apply the systems ensuring that staff are aware, qualified and trained to proberly implement them.	473.  b) There is an annual hygiene training for staff. Last HSE training was on 25.02.2019. First aid drill was on 12.03.2019, chemical training on 05.03.2019.		
		-			

		Criterion 2.3 Nutrient release from production	n						
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):						
		Note: The methodology given in Appendix I-2 is used to determine the fi	Note: The methodology given in Appendix I-2 is used to determine the fines (dust and small fragments) in finished product of fish feed which has a diameter of 3 mm or more.						
	Indicator: Percentage of fines [18] in the feed at point of entry to the farm [20] (calculated following methodology	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.	a) Percentage of fines according to requirements, but no registrations before 12.01.2020 according to site manager. The calculations ranging from 0,1 to 0,4%. Monthly testing according to internal QMS Intelex procedure "Prosedyre formottak og lagring" ID 260  b) Appropriate testing technology (sieving machine) as per ASC.		No data on				
2.3.1	in Appendix I-2)  Requirement: < 1% by weight of the feed  Applicability: All farms except as noted in [19]	b. If using a sieving machine, calibrate equipment according to manufacturer's recommendations.		Minor	percentage of the fines in feed for 2019 was	Interview with the site manager			
		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.	c) Percentage of fines according to requirements.		presented.				
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 partir farm gate (e.g., from feed bags after they are de		sh a 2.36 mm si	eve. To be me	asured at			
Footnote	Footnote [19] To be measured every quarter or every three months. Samples that are measured shall be chosen randomly. Feed may be sampled immediately prior to delivery to farm for sites with no feed storage where it is not possible to sample on farm. Closed production systems that can demonstrate the collection and responsible disposal of > 75% of solid nutrients and > 50% of dissolved nutrients (through biofiltration, settling and/or other technologies) are exempt.								
		Criterion 2.4 Interaction with critical or sensitive habitats	,	1					
		Compliance Criteria (Required Client Actions):  Note: If a farm has previously undertaken an independent assessment of biodiversity imp compliance with Indicator 2.4.1 a	Auditor Evaluation (Required CAB Actions):  pact (e.g. as part of the regulatory permitting process), the farm may use such docun s long as all components in Appendix I-3 are explicitly covered.	l nents as evider	nce to demons	strate			
	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  Requirement: Yes  Applicability: All	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.	a-c) Impacts consequence assessment performed according to Appendix I-3. Document "Plan for miljø og biodiversitetsledelse". Cermaq Group AS annual corportae level environmental and sustainability report 2017. Internal impacts consequence assement performed using data from reaserch institutes and reports also considered in local impact from site/company						
2.4.1		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.	performed for 2018." Procedure "Særskilt om ytre miljø og vedlegg til riskovurdering" ID 387	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.	30.07.2019 including action plan for environement. Furthermore, To reduce teh risk of fish escape all main components of the farm are certified according to NS 9415.E:2009 and NYTEK.  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)  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 site. 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 I landscapes or for sustainable resource management).  Exception #2: For HCVAs if the farm can demonstrate that its environmental impacts are compared would be placed on the farm to demonstrate that it is not negatively impacting the core of Exception #3: For farms located in a protected area if it was designated as such after the farm we renvironmental impacts are compatible with the conservation objectives of the protected area afarm as a result of the formation/designation of the protected area. The burden of proof would reason an area has been protected.  Definitions  Protected area: "A clearly defined geographical space, recognized, dedicated and managed through a multi-stakeholder approach that provides a systematic basis for identifying critical comanagement in order to ensure that these high conservation values are maintained or enhancements."	Nature (IUCN) as Category V or VI (these are areas preserved primarily for their atible with the conservation objectives of the HCVA designation. The burden of the season an area has been identified as a HCVA.  It is already in operation and provided the farm can demonstrate that its and it is in compliance with any relevant conditions or regulations placed on the labe placed on the farm to demonstrate that it is not negatively impacting the core ough legal or other effective means, to achieve the long-term conservation of the detection of the core of the placed to be of outstanding significance or critical importance. HCVA are designated inservation values—both social and environmental—and for planning ecosystem					
		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 not 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. GIS data were also verified and confirmed that the site is not in conflict with protected areas					
		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.	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 sustainability report 2017 also refers to policy and approach for HCVA.      c) NA	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) NA					
Footnote	[20] Protected area: "A clearly defined geographical space	e, recognized, dedicated and managed through legal or other effective means, to achieve the lon Guidelines for Applying Protected Area Management Categories, G	<del>-</del>	es." Source: Du	dley, N. (Edito	or) (2008),		
Footnote		itats where conservation values are considered to be of outstanding significance or critical impor h social and environmental—and for planning ecosystem management in order to ensure that th			for identifyin	ig critical		
Footnote	<ul> <li>For HCVAs if the farm can demonstrate that its environ</li> <li>For farms located in a protected area if it was designated</li> </ul>	[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 are areas preserved primarily for their landscapes or for sustainable resource management).  or 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.  If 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, including predators [23]						
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):				
Footnote		[23] See Appendix VI for transparency requirements fo	r 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  Applicability: All	a. Compile documentary evidence to show that no ADDs or AHDs have been used by the farm.	a) No ADDs or AHDs have been used by the farm. The birdnets were the only predator contol devices. Verified via interview with the site workers.	Compliant			
		a. Prepare a list of all predator control devices and their locations.					
	Indicator: Number of mortalities [25] of endangered or	b. Maintain a record of all predator incidents.	a) Nets on the cages are the only devices used by the farm to control birds. b) The predators incidents are recorded by the farm empolyess. 2 Herring Gull, 1 black backed Gull, 2 common Gull, 1 Grouse= in total 7				
2.5.2	Requirement: 0 (zero)  Applicability: All	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			
		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 Rødliste for arter-2018" - fra Artsdatabanken". The species in the Red List are assigned to one of six categories, ranked by their risk of extinction				
Footnote		[25] Mortalities: Includes animals intentionally killed through lethal action as well as ac					
Footnote		[26] Species listed as endangered or critically endangered by the IUCN of					
Toothole	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.	and the species and				
2.5.3	All other avenues were pursued prior to using lethal action     Approval was given from a senior manager above the farm manager     Explicit permission was granted to take lethal action against the specific animal from the relevant regulatory authority  Requirement: Yes [28]	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 with ID 395" in place. b, c) NA	Compliant			
	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 an animal, inclu	uding marine mammals and birds.				
Footnote	[28] Exception to these conditions ma	by 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 i	must be inform	ed.		

#### 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, a.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	a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence.				
2.5.4	incidents [30] on the farm has been made easily publicly available [29]  Requirement: Yes	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	[29] Posting re	sults on a public website is an example of "easily publicly available." Shall be made available with	nin 30 days of the incident and see Appendix VI for transparency requirements.			
		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.				
2.5.5	Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years  Requirement: < 9 lethal incidents [31], with no more than two of the incidents being marine mammals  Applicability: All	b. Calculate the total number of lethal incidents and the number of incidents involving marine mammals during the previous two year period.	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  c) Will be submitted to ASC	Compliant		
		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).				
Footnote		[30] Lethal incident: Includes all lethal actions as well as entanglements or of	ther accidental mortalities of non-salmonids.		L	
Footnote		[31] Standard 2.5.6 applicable to incidents related to non-endangered and non-red-listed speci	es. This standard complements, and does not contradict, 2.5.3.			
2.5.6	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  Requirement: Yes  Applicability: All	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 b) NA	Compliant		
2.5.0		b. Provide documentary evidence that the farm implements those steps identified in 2.5.6a to reduce the risk of future lethal incidents.		Compliant		

		PRINCIPLE 3: PROTECT THE HEALTH AND GENETIC INTEGRITY OF				
		Criterion 3.1 Introduced or amplified parasites and patho				
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote	[32] Farm sit	es for which there is no release of water that may contain pathogens into the natural (freshwate	r or marine) environment are exempt from the standards under Criterion 3.1.			
Footnote		[33] See Appendix VI for transparency requirements 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	icator: Participation in an Area-Based Management IM) scheme for managing disease and resistance to atments that includes coordination of stocking, owing, therapeutic treatments and information- rring. Detailed requirements are in Appendix II-1.	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 is a requirement in national legislation for coordination of stocking and fallowing, regular ABM agreements, meetings and strategies. Records and overview over ABM in zones defined by NFSA and farms in the ABM. Weekly updates to Altinn, where info is available for all farms in zone.  ABM Documentation for following companies Grieg Seafood Finnmark AS, NRS, Cermag Norway AS, Lergy Aurora, Salmar Farming AS. Åkerblå AS, external fish	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.	health service provider, is involved to coordiante the ABM health issues. Last meeting was on 06.12.2019  d) Agenda related to relevant areas as lice control, bio security, and synchronized fallowing periods. Will be submitted to ASC			
		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 possible impacts on wild stocks. If the farm does not receive any requests to collaborate on suc of commitment through other proactive means such as published policy statements or directed	h research projects, the farm may demonstrate compliance by showing evidence			
	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  Applicability: All except farms that release no water as noted in [32]	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.	(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)			
3.1.2		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.	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, NIVA 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	Compliant		
		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.	ClimeFish (2017), contribute with data and input from production, EU project 677039, NOFIMA, UiT, University of Stirling, AVS, how climate changes affect aquaculture, ongoing to 2020.  b) Some of the projects described in 3.1.2 includes non-financial support. c) Cermaq is part of a reasearch network called Kompetanse-Klynge Laks.			
		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.	Applications are recived and evaluated through the team of Kompetanse-Klynge Laks. No rejection without justification is made.			
Footnote	[34] Commitment: At a minimum, a farm and/o	r its operating company must demonstrate this commitment through providing farm-level data t	o researchers, granting researchers access to sites, or other similar non-financial su	oport for resea	ch activities.	

3.1.3	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  Requirement: Yes  Applicability: All except farms that release no water as noted in [32]	a. Keep records to show that a maximum sea lice load has been set for: - the entire ABM; and - the individual farm.  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).  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.  d. Submit the maximum sea lice load for the ABM to ASC as per Appendix VI at least once per year.	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.  Also internal procedures in Intelex Quality System, system to prevent maximum sea lice load. 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.  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 "lusedatano" and "barentswatch.no" with lice levels, treatment etc. published in this public website.  The site manager reports to the authorities the lice number each week. Reports are reviewed by NFSA and Luse -nettverket weekly.  d) Will be submitted to ASC	Compliant		
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	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.  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.	a) Weekly sampling and registratios reported to NFSA via AltInn. Sensitive periods (week 21-26) for wild salmon migtration for area.  Spring coordinated delicing regime decided by goverment/ NFSA for region. In "Luseforskriften" dt.13.09.2019, defined treatments period for area before sensitive periods. Sensitive periods in area for wild salmon migtration condisedered and defined to be week 21-26  b) Sea lice load testing reported to Altinn/NFSA weekly. Lice are counted in all cages, 20 fish in each, weekly. No deviations registered. (exemption for periods with temperatues below 04 degrees C - testing period 2 weeks) according NFSA regulation	Compliant		
	noted in [32]	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.	c-e) All lice results are available to public on https://www.barentswatch.no/fiskehelse f) Will be submitted to ASC			
Footnote		f. Submit test results to ASC (Appendix VI) at least once per year.  to sensitive periods for wild salmonids, such as outmigration of wild juvenile salmon. Testing mo		old that it would	jeopardize fa	armed fish
		nealth to test for lice (below 4 degrees C). Within closed production systems, alternative method				
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) Migratory routes as defined in web site "environmental statistics"			
		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 50 km of the farm.	(miljøstatatus.no) on salmonid carrying rivers, and Lakseregisteret from Miljødirektoratet. Also map from DN with rivers identified.  Report "Risikorapport norsk fiskeoppdrett 2017" by Institute of Marine Research, published on their website.  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.	c) 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.      d) Sufficient awarness and also participation in related scientific projects by Cermag staff			
	(an) 5	-				
Footnote	[37] For purposes or triese standards, areas with wil	ld salmonids" are defined as areas within 75 kilometers of a wild salmonid migration route or ha	oncae. This deminition is expected to encompass an, or nearry an, or sainfloff-growing a	reas in the nort	iem nemispn	ere.
Footnote	[38] Farms do not need to conduct research on migration	routes, timing and the health of wild stocks under this standard if general information is already their region, as such information is needed to make management decisions relate	·	neral level for sa	almonid popul	lations in

	Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in [32]	c. Maintain detailed records of monitoring on-farm lice levels (see 3.1.4) during sensitive periods as per Appendix II-2.	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 2019-2020.  d) Institute of Marine Research (IMR) manage surveillance of sea lice level on wild		
3.1.7	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.  Requirement: 0.1 mature female lice per farmed fish	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. Samples documents compliance <0.1 mature females per salmon for 2019-2020  c) Invested in a lot of resources for non therapautic sea lice treatment. Weekly testing form predetermined cages, according NFSA regulations. Sealice lifestage	Compliant	
		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) Atlantic salmon (Salmo salar) and trout (Salmo trutta) is naturally occurring in the area.		
		e. Submit to ASC the results from monitoring of sea lice levels on wild salmonids as per Appendix VI.	farm may contribut to governmental monitoring if the program is geographically relevant. Public reports regarding this issue is easily publicly available.		
	[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.	"lakselusinfeksjon på vill laksetisk langs norskekysten i 2018. and IMR/vet Institute report on measuring environmental effects on wild salmon. Vitenskapsrådet yearly reports on salmon river managment  d) Report published and generally available. Governmental reports publicly available		
3.1.6	coastal sea trout or Arctic char, with results made publicly available. See requirements in Appendix III-1.  Requirement: Yes  Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in	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.		Compliant	
	Indicator: In areas of wild salmonids, monitoring of sea 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.			
		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) Atlantic salmon (Salmo salar) and trout (Salmo trutta) is naturally occurring in the area.		

		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 with life and reproduction (e.g. the Northern Atlantic Coast of the U.S. and Canada). Appendix II-1A & taking into account the zone in which key cumulative impacts on wild populations may occur, w The intent is that the area relates to the spatial extent that is likely to be put at risk from the no	elaborates further on this definition: "The boundaries of an area should be defined, ater movement and other relevant aspects of ecosystem structure and function."			
		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 produced in the area by the date of publication of the ASC . Salmon standard  Requirement: Yes [40]  Applicability: All farms except as noted in [40]	b. Provide documentary evidence that the non-native species was widely commercially produced in the area before June 13, 2012.				
3.2.1		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.	N/A. Atlantic salmon (Salmo salar) is naturally occurring in the area.	N/A		
		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).				
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 p might survive and subsequently repro	·	d specimens or	biological ma	terial that

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]	Instruction to Clients for Indicator 3.2.2 - Exceptions to Allow Production of Non-Native Species  Farms have had five years to demonstrate compliance with this standard from the time of publication of the ASC Salmon Standard (i.e. full compliance by June 13, 2017).  Farms are exempt from this standard if they are in a jurisdiction where the non-native species became established prior to farming activities in the area and the following three conditions are met: eradication would be impossible or have detrimental environmental effects; the introduction took place prior to 1993 (when the Convention on Biological Diversity (CBD) was ratified); 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).	N/A. Atlantic salmon (Salmo salar) is naturally occurring in the area.	N/A		
		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.				
Footnote	[41] The research must at a minimum include multi-year monitoring for non-native farmed species, use credible methodologies and analysis, and undergo peer review.					
Footnote	[42] If the review demonstrates there is increased risk, the ASC will consider prohibiting the certification of farming of non-native salmon in that jurisdiction under this standard. In the event that the risk tools demonstrate "high" risks, the SAD expects that the ASC will prohibit the certification of farming of non-native salmon in that jurisdiction. The ASC intends to bring this evidence into future revision of the standard and those results taken forward into the revision process.					
Footnote	[43] Farms are exempt from this standard if they are in a jurisdiction where the non-native species became established prior to farming activities in the area and the following three conditions are met: eradication would be impossible or have detrimental environmental effects; the introduction took place prior to 1993 (when the Convention on Biological Diversity (CBD) was ratified); the species is fully self-sustaining.					
3.2.3	Indicator: Use of non-native species for sea lice control for on-farm management purposes  Requirement: None  Applicability: All	a. Inform the CAB if the farm uses fish (e.g. cleaner fish or wrasse) for the control of sea lice.	a, b, c) No cleaning fish is used at the site during the current production cycle	Compliant		
		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.				
		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 transgenic species						
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):				
		a. Prepare a declaration stating that the farm does not use transgenic salmon.	a, b) Statements from genetics service providers AquaGen and Benchmark genetics, stating that only conventional breeding and genetics are applied. No				
3.3.1	Indicator: Use of transgenic [44] salmon by the farm  Requirement: None	b. Maintain records for the origin of all cultured stocks including the supplier name, address and contact person(s) for stock purchases.	genetic modifications are applied.  c) Information of salmon group available in invoices and fish/ova CV. Norwegian law forbids genetically modifications on salmon roe for use in farming industry.	Compliant			
	Applicability: All	c. Ensure purchase documents confirm that the culture stock is not transgenic.	Source: The Norwegian Gene Technology Act (Genteknologiloven) (LOV-1993-04-02-38).				
Footnote	[44] Transgenic: 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						
		Criterion 3.4 Escapes [47]					
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):				
Footnote		[45] See Appendix VI for transparency requirements for	r 3.4.1, 3.4.2 and 3.4.3.				
3.4.1	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.  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]).  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.	a) No escapes registered for the last prodcution cycle. Documented in production and recording system with reports.  Fisheries directorate reports (www.fiskeridir.no) shows no escapes from site.  Cross-checked and verified with the estimate of unexplained loss, maintenance records for nets, site infrastucture certificate according to NYTEK/NS9415.  b) No escapes registered for the last prodcution cycle. Documented in production and recording system Aquafarmer with reports.  c) Documented in production and recording system Aquafarmer with reports.  Environmental company/site reports for 2013- 2019 states 0 escapes.  Documents are and will be available for at least 10 years.  d) Fisheries directorate reports (www.fiskeridir.no) shows no escapes from site.  e) Will be submitted to ASC	Compliant			
		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 total agg	regate number of escapees per production cycle must be less than 300 fish. Data on date of esca	spe episode(s), number of fish escaped and cause of escape episode shall be reporte	d as outlined in	Appendix VI.		
Footnote		escape event that is clearly documented as being outside the farm's control. Only one such excuthe farm is applying for certification. The farmer must demonstrate that there was no reasonable that the control of the farmer must demonstrate that there was no reasonable that the control of the farmer must demonstrate that there was no reasonable that the control of the farmer must demonstrate that there was no reasonable that the control of the farmer must demonstrate that there was no reasonable that the control of the farmer must demonstrate that there was no reasonable that the farmer must demonstrate that there was no reasonable that the farmer must demonstrate that there was no reasonable that the farmer must demonstrate that there was no reasonable that the farmer must demonstrate that there was no reasonable that the farmer must demonstrate that there was no reasonable that the farmer must demonstrate the farmer must demonstrate that the farmer must demonstrate the farmer must demonstrate the farmer must demonstrate that the farmer must demonstrate the farme			starts at the b	eginning	

3.4.2	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.  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).  c. During audits, arrange for the auditor to witness calibration of counting machines (if used by the farm).  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).	machines were used on site during the audit.  d) Statement from Wingtech and Aquascan of 98-100% accuracy.  e) Will be submitted to ASC	Compliant	
		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 a  EUL = (stocking count) - (harvest count) - (mortalities) - (recorded escapes)  Units for input variables are number of fish (i.e. counts) per production cycle. Where possible, formula is adapted from footnote 59 of the ASC Salmon Standard.			
3.4.3	Indicator: Estimated unexplained loss [49] of farmed salmon is made publicly available  Requirement: Yes  Applicability: All	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.  d. Submit estimated unexplained loss to ASC as per Appendix VI for each production cycle.	a) Spesific site reports and records documented and available in production and recording system Fishtalk b) EUL -5.39 % for last generation harvested in 2012 EUL for 2012 G = (Stocked fish: 943494) - ( harvested fish: 807101 ) - ( Mortality: 187265 ) - (recorded escapes: 0) EUL for the current G will be calculated after harvest. c) System implemented to make EUL value information easily publically available on corporate webpage https://www.cermaq.com/wps/wcm/connect/cermaq/cermaq/our-sustainable-choice/asc-dashboard/ d) Will be submitted to ASC	Compliant	-5,39%
Footnote	[49] Calculated at the end of the pr	I oduction cycle as: Unexplained loss = Stocking count – harvest count – mortalities – other knowr	n escapes. Where possible, use of the pre-smolt vaccination count as the stocking co	unt is preferred	1.

3.4.4	Indicator: Evidence of escape prevention planning and related employee training, including: net strength testing; appropriate net mesh size; net traceability; system robustness; predator management; record keeping and reporting of risk events (e.g., holes, infrastructure issues, handling errors, reporting and follow up of escape events); and worker training on escape prevention and counting technologies  Requirement: Yes  Applicability: All	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);	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 on escape prevention and counting technologies. No training records for staffs was available. c) NA (Open system) d) All structures NYTEK certified Norwegian standard NS9415 (Certificate APN-344 by Akvaplan Niva dated 14.11.2018). 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 for all	Compliant	
		e. Train staff on escape prevention planning as per the farm's plan.	employee. Annual revision of escape prevention plan, risk assessment and		

		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		1 1
rms must ervals by en acknown acknown addition to use one control of the control	an independent auditing firm or a conformity assessment by vledged by the ASC (see 4.1.1c below). Results from these a about their production and supply chains. Declarations from the duly informed of the requirements of the ASC Salmon States the above, farms must also show that their feed suppliers of two different methods to demonstrate compliance of feed from a compliance of feed according to farm specifications. Audits of the farms may choose to source feed from feed producers who atch of feed according to farm specifications. Audits of the farms may choose to source feed from feed producers who be also the farms are considered to source feed from feed producers who are the farms and the farms are considered from feed producers who are the farms are the farms and the farms are the farms are the farms are the farms of ingredictions. The mass balance method can be also the farm of a single legal entity.	lance with the requirements of Indicators 4.1.1 through 4.4.4. To do so, farms must obtain docuply against a recognized standard which substantially incorporate requirements for traceability, udits shall demonstrate that feed producers have robust information systems and information in the feed producer that are provided to the farm to demonstrate compliance with these indicated relating to sourcing of responsibly produced salmon feed (see 4.1.1b below).  comply with the more detailed requirements for traceability and ingredient sourcing that are spling to sourcing that are spling to source the second source of	Acceptable certification schemes include GlobalGAP or other schemes that have andling processes to allow the feed producers to be able to bring forward accurate ors must be supported by the audits. Farms must also show that all of their feed ecified under indicators 4.1.1 through 4.4.2. The ASC Salmon Standard allows farms a given batch of feed. For example, the farm may request its feed supplier to requirements.  that the balance of all ingredients (both amount and type) used during a given feed ed producer will independently verify that manufacturing processes are in facturing (purchasing of raw materials, processing to finished feed, and sales) under a supplying feed to a farm (i.e. the feed supplier) will be the same organization that		
		<u> </u>			
		a. Maintain detailed records of all feed suppliers and purchases including contact information and purchase and delivery records.      b. Inform each feed supplier in writing of ASC requirements pertaining to production of salmon	a) Feed suppliers: EWOS (www.cargill.com) and BIOMAR (www.biomar.com) for current G For last G: EWOS (www.cargill.com)  Records of purchase for last G: 4914500 kg Records of purchase for current G: 1905000 kg (EWOS) and 444000 kg from Biomar		
4.1.1	<b>Indicator</b> : Evidence of traceability, demonstrated by the feed producer, of feed ingredients that make up more than 1% of the feed [50].	and purchase and delivery records.	current G For last G: EWOS (www.cargill.com)  Records of purchase for last G: 4914500 kg Records of purchase for current G: 1905000 kg (EWOS) and 444000 kg from Biomar  b) Feed suppliers informed of certifications of site and relevant ASC requirements in mail to EWOS dt.26.03.18 and to BioMar 26.03.18	Compliant	
4.1.1	feed producer, of feed ingredients that make up more	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.  c. For each feed producer used by the farm, confirm that an audit of the producer was recentled one by an audit firm or CAB against an ASC-acknowledged certification scheme. Obtain a	current G For last G: EWOS (www.cargill.com)  Records of purchase for last G: 4914500 kg Records of purchase for current G: 1905000 kg (EWOS) and 444000 kg from Biomar  b) Feed suppliers informed of certifications of site and relevant ASC requirements in mail to EWOS dt.26.03.18 and to BioMar 26.03.18  c) EWOS: Audited by DNV GL GG CFM dt26.06.2019, Global G.A.P. CFM Version	Compliant	
4.1.1	feed producer, of feed ingredients that make up more than 1% of the feed [50].  Requirement: Yes	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.  c. For each feed producer used by the farm, confirm that an audit of the producer was recentled one 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.  d. For each feed producer, determine whether the farm will use method #1 or method #2 (see	current G For last G: EWOS (www.cargill.com)  Records of purchase for last G: 4914500 kg Records of purchase for current G: 1905000 kg (EWOS) and 444000 kg from Biomar  b) Feed suppliers informed of certifications of site and relevant ASC requirements in mail to EWOS dt.26.03.18 and to BioMar 26.03.18  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  BIOMAR: Audited by BV GG CFM dt 2018-07-06, Global G.A.P Certificate GGN CoC 4050373810030, valid to 20/12/2019 A copy of the most recent GG audit reports was verified.	Compliant	

		Criterion 4.2 Use of wild fish for feed [51]	Auditor Fusionation (Paravirus CAR Astions)	I	
Footnote		Compliance Criteria (Required Client Actions):  [51] See Appendix VI for transparency requirements	Auditor Evaluation (Required CAB Actions): s for 4.2.1 and 4.2.2.		
		Instruction to Clie Farms must calculate the Fishmeal Forage Fish Dependency Ration (FFDRm) according to for they have maintained sufficient information in order to make an accurate calculation of FFD complete production cycle (i.e. if the FFDRm of the most - the client unde - the client maintains all information needed to accurately of	ents for Indicator 4.2.1 - Calculation of FFDRm mula presented in Appendix IV-1 using data from the most recent complete produc	th Indicator 4.2. t: and	
4.2.1	Indicator: Fishmeal Forage Fish Dependency Ratio (FFDRm) for grow-out (calculated using formulas in Appendix IV- 1)  Requirement: < 1.2  Applicability: All	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, b) Detailed information on the feed composition was seen. For example: Total feef used for 12G: 4914500 mt Fish meal from forage fishes: 7.2 % b) Trimmings are excluded in the calculations. c) eFCR: Feed used (4914.500)/ Net aquacultural production harvested (4057.66)= 1.29	Compliant	
		c. Calculate eFCR using formula in Appendix IV-1 (use this calculation also in 4.2.2 option #1).  d. Calculate FFDRm using formulas in Appendix IV-1.	d) For 12G: FFDRm: (% fishmeal in feed from forage fisheries: 7.2) x (eFCR: 1.29)/24= 0.39 e) Will be submitted to ASC		
		e. Submit FFDRm to ASC as per Appendix VI for each production cycle.			0,39
		Note: Under Indicator 4.2.2, farms can choose to calculate FFDRo (Option #1) or EPA & DHA (Option #1) or EPA & DHA (Option that inform the CAB which option they will use.	ption #2). Farms do not have to demonstrate that they meet both threshold values.		
		a. Maintain a detailed inventory of the feed used as specified in 4.2.1a.			
	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	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) See 4.2.1.a b) for 12G: Fish oil from forage fishes: 9.2% (Fish oil from South America: 6.1%, From North Atlantic: 3.1%)		
4.2.2	sources [52] (calculated according to Appendix IV-2)  Requirement: FFDRo < 2.52  or	c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard.	Trimmings are excluded in the calculations. c) Option #1.	Compliant	
	(EPA + DHA) < 30 g/kg feed  Applicability: All	d. For option #1, calculate FFDRo using formulas in Appendix IV-1 and using the eFCR calculated under 4.2.1c.	d) For 2017G: FFDRo: (% Fishoil in feed from forage fisheries: 9.2)x (eFCR: 1.29)/5.0 or 7.0, depending on source of fish = 2.16		
		e. For option #2, calculate amount of EPA + DHA using formulas in Appendix IV-2.	e) N/A. f) Will be submitted to ASC		
		f. Submit FFDRo or EPA & DHA to ASC as per Appendix VI for each production cycle.			2,16
Footnote		ries by-products and trimmings. Trimmings are defined as by-products when fish are processed for does not meet official regulations with regard to fish suitab nings can be excluded from the calculation as long as the origin of the trimmings is not any special (http://www.iucnredlist.org).	ole for human consumption.		

Criterion 4.3 Source of marine raw materials							
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):				
4.3.1	Indicator: Timeframe for all fishmeal and fish oil used in 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  Applicability: N/A	NA		N/A			
Footnote	[53] This standard and stand	lard 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries, or fisheries where t	he catch is directly reduced (including krill) and not to by-products or trimmings use	d in feed.			
Footnote	[54	1] Meets ISEAL guidelines as demonstrated through full membership in the ISEAL Alliance, or eq	uivalent as determined by the Technical Advisory Group of the ASC.				
4.3.2	To determine FishSource scores of the fish-go to http://www.fishsource.org/ - type the species into the search function I confirm that the search identifies the corn For first audits, farms must have scoring red Note: Indicator 4.3.2 applies to fishmeal an trimmings used in feed.  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  Requirement: All individual scores ≥ 6, and biomass score ≥ 6  Applicability: All  C. If the species is not on the website it me: Client can then take one or both of the folic 1. Contact FishSource via Sustainable Fis priority for assessment. 2. Contract a qualified independent third	- 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 For first audits, farms must have scoring records that cover all feeds purchased during the prev Note: Indicator 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries, or fishe	ious 6-month period.  ries where the catch is directly reduced (including krill) and not to by-products or  a) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert iht. ASC ) 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.				
		Contract a qualified independent third party to conduct the assessment using the FishSource methodology and provide the assessment and details on the third party qualifications to the CAB for review.	Statement from Biomar (Feed supplier regarding ASC certification) on complete traceability dated 14.01.2019 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.  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 more than 6. c) No independent assessment	Compliant			
Footnote		[55] Or equivalent score using the same methodology. See Appendix IV	-3 for explanation of FishSource scoring.				

	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 custody and traceability as verified through third-party audits. Farms may submit reports from audits of feed producers (see 4.1.1c) as evidence that traceability systems are in compliance. Alternatively, farms may show that their feed producers comply with traceability requirements of Indicator 4.3.3 by submitting evidence that suppliers, and the batches of fishmeal and oil, are certified to the International Fishmeal and Fish Oil Organization's Global Standard for Responsible Supply or to the Marine Stewardship Council Chain of Custody Standard.  For the first audit, a minimum of 6 months of data on feed is required and evidence shall relate to species used in said dataset.				
4.3.3	Requirement: Yes Applicability: All	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.	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	
		b. Ensure evidence covers all the species used (as consistent with 4.3.2a, 4.2.1a, and 4.2.2a).	Certifcate GGN CoC 4050373810030 , valid to 20/12/2019		
		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.			
	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	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.			
4.3.4	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]			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].	BIOMAR: Audited by BV GG CFM dt 14.02.17, Global G.A.P. CFM Version 5.  Certifcate GGN CoC 4050373810030 , valid to 20/12/2019  d) Not from vulnerable fisheries		

4.3.5	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  Requirement: Yes  Applicability: All	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.  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.  c. Compile a list of the origin of all fish products used as feed ingredients in all feed.	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.  Statement from Biomar (Feed supplier regarding ASC certification) on complete traceability dated 14.01.2019 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.  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  BIOMAR: Audited by BV GG CFM dt 14.02.17, Global G.A.P. CFM Version 5. Certificate GGN CoC 4050373810030 , valid to 20/12/2019	Compliant			
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, Unregulated and Unre	eported.				
Footnote		[58] The International Union for the Conservation of Nature reference ca	n be found at http://www.iucnredlist.org/.				
Footnote		on is made if a regional population of the species has been assessed to be not vulnerable in a Na naged in accordance with IUCN guidelines, an exception is allowed when an assessment is cond Criterion 4.4 Source of non-marine raw materials i	ucted using IUCN's methodology and demonstrates that the population is not vulner		here a National Re	ed List	
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):				
			a, b) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert				
		a. Compile and maintain a list of all feed suppliers with contact information. (See also 4.1.1a)	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				
4.4.1	Indicator: Presence and evidence of a responsible sourcing policy for the feed manufacturer for feed ingredients that comply with recognized crop moratoriums [60] and local laws [61]  Requirement: Yes	b. Obtain from each feed manufacturer a copy of the manufacturer's responsible sourcing	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.  Statement from Biomar (Feed supplier regarding ASC certification) on complete traceability dated 14.01.2019 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.	Compliant			
4.4.1	sourcing policy for the feed manufacturer for feed ingredients that comply with recognized crop moratoriums [60] and local laws [61]	b. Obtain from each feed manufacturer a copy of the manufacturer's responsible sourcing policy for feed ingredients showing how the company complies with recognized crop	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.  Statement from Biomar (Feed supplier regarding ASC certification) on complete traceability dated 14.01.2019 with details of raw material sources in specific feeds for this site in this period have scores according to ASC s requirement for this				
4.4.1 Footnote	sourcing policy for the feed manufacturer for feed ingredients that comply with recognized crop moratoriums [60] and local laws [61]  Requirement: Yes  Applicability: All	b. Obtain from each feed manufacturer a copy of the manufacturer's responsible sourcing policy for feed ingredients showing how the company complies with recognized crop moratoriums and local laws.  c. Confirm that third party audits of feed suppliers (4.1.1c) show evidence that supplier's	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.  Statement from Biomar (Feed supplier regarding ASC certification) on complete traceability dated 14.01.2019 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  BIOMAR: Audited by BV GG CFM dt 14.02.17, Global G.A.P. CFM Version 5. Certificate GGN CoC 4050373810030 , valid to 20/12/2019	Compliant	he growth of defin	ned	

Footnote  [62] Any alternate certification scheme would have to be approved as equivalent by the Technical Advisory Group of the ASC.  [62] Any alternate certification scheme would have to be approved as equivalent by the Technical Advisory Group of the ASC.  [63] Any alternate certification scheme would have to be approved as equivalent by the Technical Advisory Group of the ASC.  [64] Indicator: Evidence of disclosure to the buyer [63] of the salmon of inclusion of transgenic [64] plant raw materials in feed and whether it is transgenic.  [65] Indicator: Evidence of disclosure to the buyer [63] of the salmon of inclusion of transgenic [64] plant raw materials in feed and whether it is transgenic.  [65] Indicator: Evidence of disclosure to the buyer [63] of the salmon of inclusion of transgenic [64] plant raw materials in feed and whether it is transgenic.  [65] Indicator: Evidence of disclosure to the buyer [63] of the salmon of inclusion of transgenic [64] plant raw materials in feed and whether it is transgenic.  [65] Indicator: Evidence of disclosure to the buyer [63] of the salmon of inclusion of transgenic plants, in the feed and whether it is transgenic in feed and maintain documentary evidence of this disclosure. For first audits, farm records of disclosures must containing > 1% transgenic content [65]  [65] Applicability: All Company or entity to which the farm or the production cycle.  [66] The company or entity to which the farm or the producing company is directly selling its product. This standard requires disclosure by the feed company to the farm and by the farm to the buyer of their salmon.  [66] Transgenic: 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 offspring.	4.4.2	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.  b. Prepare a letter stating the farm's intent to source feed containing soya certified under the RTRS (or equivalent)  c. Notify feed suppliers of the farm's intent (4.4.2b).  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]	a) Annual Cermaq Group report 2018 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 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 Feed suppliers informed of relevant ASC requirements in mail to BIOMAR dt.09.09.16 Continuous communication related to ASC feed issues.  d-e) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert int. ASC) dated 03.01.2019 with details of raw material sources according to ASC s requirement for this indicator.  Statement from Biomar (Feed supplier regarding ASC certification) dated 14.01.2019 that Proterra and RTRS certified soy ingreidents are used in the feed. According to Q & A 93 ProTerra is acctecped as RTRS equivalent.  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		
Indicator: Evidence of disclosure to the buyer [63] of the salmon of inclusion of transgenic [64] plant raw materials in feed and whether it is transgenic.  4.4.3  Applicability: All  Footnote  [63] The company or entity to which the farm or the producing company is directly selling its product. This standard requires disclosure by the feed company to the farm and by the farm to the buyer of their salmon.  A Dotain from feed supplier(s) a declaration detailing the content of soya and other plant raw material and other plant raw material in feed and whether it is transgenic.  a. Obtain from feed supplier(s) a declaration detailing the content of soya and other plant raw material in feed and maintain feed and maintain documentary evidence of this disclosure. For first audits, farm records of disclosures must containing > 1% transgenic content (65)  Applicability: All  Footnote  [63] The company or entity to which the farm or the producing company is directly selling its product. This standard requires disclosure by the feed company to the farm and by the farm to the buyer of their salmon.	Footnote		[62] Any alternate certification scheme would have to be approved as equivale				
Indicator: Evidence of disclosure to the buyer [63] of the salmon of inclusion of transgenic [64] plant raw materials, or raw materials derived from transgenic plants, in the feed  4.4.3  4.4.3  Applicability: All  Footnote  [63] The company or entity to which the farm or the producing company is directly selling its product. This standard requires disclosure by the feed company to the farm and by the farm to the buyer of their salmon.  materials in feed and whether it is transgenic.  a, b) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert int. ASC ) on complete traceability dated 03.01.2019, no GMO product is used as feed ingredients  Statement from Biomar (Feed supplier regarding ASC certification) on complete traceability dated 14.01.2019, no GMO product is used as feed ingredients  Compliant  Compliant  Footnote  [63] The company or entity to which the farm or the producing company is directly selling its product. This standard requires disclosure by the feed company to the farm and by the farm to the buyer of their salmon.	rootilote		[02] Any atternate certification scriente would have to be approved as equivale	Entroly the rechnical Advisory Group of the ASC.		I	
A.4.3 Requirement: Yes, for each individual raw material containing > 1% transgenic content [65]  Applicability: All  Footnote  [63] The company or entity to which the farm or the production cycle.  [64] Transgenic: 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 offspring.		,					
Applicability: All  c. Inform ASC whether feed contains transgenic ingredients (yes or no) as per Appendix VI for each production cycle.  c) Will be submitted to ASC  C) Will be submitted to ASC  Footnote  [63] The company or entity to which the farm or the producing company is directly selling its product. This standard requires disclosure by the feed company to the farm and by the farm to the buyer of their salmon.  Footnote  [64] Transgenic: 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 offspring.	4.4.3	or raw materials derived from transgenic plants, in the feed  Requirement: Yes, for each individual raw material	documentary evidence of this disclosure. For first audits, farm records of disclosures must	feed ingredients  Statement from Biomar (Feed supplier regarding ASC certification) on complete	Compliant		
Footnote [64] Transgenic: 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 offspring.			1	c) Will be submitted to ASC			
	Footnote	[63] The company or entity	to which the farm or the producing company is directly selling its product. This standard require	es disclosure by the feed company to the farm and by the farm to the buyer of their	salmon.		
Footnote [65] See Appendix VI for transparency requirement for 4.4.3.	Footnote	[64] Transgenic: Conta	ining genes altered by insertion of DNA from an unrelated organism. Taking genes from one spe	cies and inserting them into another species to get that trait expressed in the offspri	ng.		
	Footnote		[65] See Appendix VI for transparency require	ment for 4.4.3.			

		Criterion 4.5 Non-biological waste from product	ion			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
		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.			
	Indicator: Presence and evidence of a functioning policy	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 19. June. 2018.  c) Nets, old production equipments, bags, empty chemical boxes, old PPEs, waste feed, old feed, silver, and plastics are the general waster produced on farms.			
4.5.1	for proper and responsible [66] treatment of non- biological waste from production (e.g., disposal and recycling)  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.		Compliant		
		d. Provide a description of the types of waste materials that are recycled by the farm.	The site has site specific plan for waste handling in their environmental targets, updated annually. Nets are collected, serviced by Mørenot. Dead fish delivied to Scanbio, seen invoice for 17.12.2019 and 15.11.2019 for 15000 L and 14800 L ensilage.  General waste has been delivered to Container Service AS, seen delivery on 31.01.2019, and 01.11.2019. Dangerous waste are delivered to the technical department of Cermaq.			
Footnote	[66] Proper and responsible disposal will vary based on faci biological waste into the ocean does not represent "proper	lities available in the region and remoteness of farm sites. Disposal of non-biological waste shall and responsible" disposal.	be done in a manner consistent with best practice in the area. Dumping of non-		1	
		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)				
4.5.2	Indicator: Evidence that non-biological waste (including 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 $4.5.1d$ )	accredited companies which are apporved receivers of all kind of waste. The site has site specific plan for waste handling in their environmental targets,	Compliant		
4.5.2	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	updated annually. Nets are collected, serviced by Mørenot. Dead fish delivied to Scanbio, seen invoice for 17.12.2019 and 15.11.2019 for 15000 L and 14800 L ensilage.  General waste has been delivered to Container Service AS, seen delivery on 31.01.2019, and 01.11.2019.	Compliant		
		d. Maintain records of disposal of waste materials including old nets and cage equipment.				

		Criterion 4.6 Energy consumption and greenhouse gas emission	ons on farms [67]		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		I
Footnote		[67] See Appendix VI for transparency requirements fo	r 4.6.1, 4.6.2 and 4.6.3.		
	Instruction to Clients for Indicator 4.6.1 - Energy Use Assessment Indicator 4.6.1 requires that farms must have an assessment to verify energy consumption. The site(s) that is applying for certification. Boundaries for operational energy use should correspon corresponding to Scope 3 emissions (i.e. the energy used to fabricate materials that are purcha companies to integrate energy use assessments across the board in the company.  For the purposes of calculating energy consumption, the duration of the production cycle is the Farms that have integrated smolt rearing should break out the grow-out stage portion of energ to kilojoules. Verification is done by internal or external assessment following either the GHG P	d to the sources of Scope 1 and Scope 2 emissions (see Appendix V-1). Energy use sed by the farm) is not required. However the SAD Steering Committee encourages entire life cycle "at sea" - it does not include freshwater smolt production stages. y consumption if possible. Quantities of energy (fuel and electricity) are converted			
	the energy consumption on the farm and representing the	a. Maintain records for energy consumption by source (fuel, electricity) on the farm throughout each production cycle.			
4.6.1	whole life cycle at sea, as outlined in Appendix V- 1  Requirement: Yes, measured in kilojoule/mt fish produced/production cycle	b. Calculate the farm's total energy consumption in kilojoules (kj) during the last production cycle.	a) Records and calculations were verified. For last complete production cycle 12 G:		
	Applicability: All	c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle.	d) Energy consumption KJ/tonn/generation: 0.73	Compliant	
		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.			
		e. Submit results of energy use calculations (4.6.1d) to ASC as per Appendix VI for each production cycle.	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.			3079,63

		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. Detailed instructions are presented in Appendix V-1 and references therein. The scope of this requirement is restricted to operational boundaries for the farm site(s) that is applying for certification. However the SAD Steering Committee encourages companies to integrate GHG accounting practices across the board in the company. Verification may be done by internal or external assessment following either the GHG Protocol Corporate Standard or ISO 14064-1 (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 Protocol: carbon dioxide (CO <sub>2</sub> ); methane (CH <sub>4</sub> ); nitrous oxide (N <sub>2</sub> O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and sulphur hexafluoride (SF <sub>6</sub> ).				
		a. Maintain records of greenhouse gas emissions on the farm.				
	Indicator: Records of greenhouse gas (GHG [68]) emissions [69] on farm and evidence of an annual GHG assessment, as outlined in Appendix V-1 Requirement: Yes Applicability: All	b. At least annually, calculate all scope 1 and scope 2 GHG emissions in compliance with Appendix V-1.	e) Will be submitted to ASC			
		c. For GHG calculations, select the emission factors which are best suited to the farm's operation. Document the source of those emissions factors.				
		d. For GHG calculations involving conversion of non-CO <sub>2</sub> gases to CO <sub>2</sub> equivalents, specify the Global Warming Potential (GWP) used and its source.		Compliant		
		e. Submit results of GHG calculations (4.6.2d) to ASC as per Appendix VI at least once per year.				
		f. Ensure that the farm undergoes a GHG assessment as outlined in Appendix V-1 at least annually.				6011498
Footnote	[68] For the purposes of this standard, GI	HGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide (CO <sub>2</sub> ); methane (CH4)	); nitrous oxide (N <sub>2</sub> O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and sulp	hur hexafluorio	le (SF <sub>6</sub> ).	
Footnote		[69] GHG emissions must be recorded using recognized methods, standar	ds and records as outlined in Appendix V.			

	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 with any feeds used during salmon production. Farms will need to obtain this information from their feed supplier(s) and thereafter maintain a continuous record of Feed GHG emissions throughout all production cycles. This requirement applies across the entire previous production cycle. Therefore farms should inform their feed supplier(s) and:  - the farm provides its feed suppliers with detailed information about the requirements including a copy of the methodology outlined in Appendix V, subsection 2;  - the farm 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 to demonstrate compliance.  Note1: Farms may calculate GHG emissions of feed using the average raw material composition used to produce the salmon (by weight) rather than using feed composition on a lot-by-lot basis.  Note2: Feed supplier's calculations must include Scope 1, Scope 2, and Scope 3 GHG emissions as specified in Appendix V, subsection 2.				
	Requirement: Yes  Applicability: All	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 used in the most recent completed production cycle.	a) The statement from the feed supplier show following details:  From sustainability evaluation of fish feed production in EWOS: 1.57 the CO2 emission factor.  b, c) Last complete production cyclus 12G: Feed use: 4914500 kg / 7750 tonn CO2e kgCo2  d) Will be submitted to ASC	Compliant		
		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.				
		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	average raw material composition used to produce the salmon (by weight) and not as document emissions per unit feed. Farm site then shall use that information to calculate GHG emissions		turer is respons	ible for calcula	ating GHG

Footnote Footnote		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			_	
		[74] Classification of the contract that do not not the contract that the contract t					
Footnote		[71] Closed production systems that do not use nets and do not use antifoulants shall be	considered exempt from standards under Criterion 4.7.				
	[72] See Appendix VI for transparency requirements for 4.7.1, 4.7.3 and 4.7.4.						
		<ul> <li>a. Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping.</li> </ul>					
	dicator: For farms that use copper-treated nets [73],	b. Maintain records of antifoulants and other chemical treatments used on nets.	c, d) Copper-based treatments are used on net. Nets consist of netwax NI3 and NI4 consisting of dicopper oxide. Nets are cleaned by Mørenot at on-land sites.  Mørenot is certified in accordance with NYTEK NS 9415, dated 19.12.16, valid to 12.12.21. MøreNot AS is also ISO 9001:2008 accredited.  d) Will be submitted to ASC				
in th 4.7.1		c. Declare to the CAB whether copper-based treatments are used on nets.		Compliant			
	Requirement: Yes  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.					
		e. Inform ASC whether copper antifoulants are used on farm (yes or no) as per Appendix VI for each production cycle.					
Footnote tre		s a net that has been treated with any copper-containing substance (such as a copper-based and rior in their lifespan, been treated with copper may still consider nets as untreated so long as su immediately having to purchase all nev	afficient time and cleaning has elapsed as in this definition. This will allow farms to m				
Footnote [74	[74] Light cleaning of nets is allowed. Intent of the standar	d is that, for example, the high-pressure underwater washers could not be used on copper trea	ted nets under this standard because of the risk of copper flaking off during this type	e of heavy or m	ore thorough	cleaning.	
Indi	<b>dicator</b> : For any farm that cleans nets at on-land sites,	a. Declare to the CAB whether nets are cleaned on-land.	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				
4.7.2 [75]		<ul> <li>b. If nets are cleaned on-land, obtain documentary evidence from each net-cleaning facility that effluent treatment is in place.</li> </ul>	facilities. All the nets 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)	Compliant			
Арр	Applicability: All farms except as noted in [71]	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.	c) No copper effluent is allowed by law in Norway.				
Footnote		[75] Treatment must have appropriate technologies in place to capture co	pper if the farm uses copper-treated nets.				

		Note: If the benthos throughout and immediately outside the full AZE is hard bottom, provide e	vidence to the CAB and request an exemption from Indicator 4.7.3 (see 2.1.1c).			
4.7.3	Indicator: For farms that use copper nets or copper- treated nets, evidence of testing for copper level in the sediment outside of the AZE, following methodology in Appendix I-1	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.				
4.7.3	Requirement: Yes  Applicability: All farms except as noted in [71]	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.	a) Copper-based treatments are used on nets, but no cleaning on site b, c) This is done in connection with MOM C sampling, Aqua Akvaplan Niva AS is used.	Compliant		
		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 concentration falls within the range of background concentrations as measured at three reference sites in the water body  Requirement: Yes  Applicability: All farms except as noted in [71] and excluding those farms shown to be exempt from Indicator	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.			The	
		b. Provide evidence from measurements taken in 4.7.3b that copper levels are < 34 mg Cu/kg dry sediment weight.	b) Results ranging from 16.9 to 51.8 mg Cu/kg dry sediment weight. The sampling stations CU5 (37.9-46.6 mg Cu/kg) and CU1 (38.1-51.8 mg Cu/kg) had values higher than ASC requirements.		sampling stations CU5 (37.9-	MOM-C hybrid -
4.7.4		c. If copper levels in 4.7.4b are ≥ 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).		Minor	46.6 mg Cu/kg) and CU1 (38.1- 51.8 mg Cu/kg) had	ASC adapted performe d by Akvaplan
		d. Analyze results from 4.7.4c to show the background copper concentrations as measured at three reference sites in the water body.			values higher than ASC requiremen	Niva AS on
	4.7.3	e. Submit data on copper levels in sediments to ASC as per Appendix VI for each production cycle.			ts.	
Footnote	[76]	According to testing required under 4.7.3. The standards related to testing of copper are only ap	plicable to farms that use copper-based nets or copper-treated nets.			
	Indicator: Evidence that the type of biocides used in net antifouling are approved according to legislation in the European Union, or the United States, or Australia	a. Identify all biocides used by the farm in net antifouling.	a) Nets consist of Netwax NI4 and 3, containing copper (I) Oxide			
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) Approved according to Regulation (EC) No 528/2012 for use of biocidal products in product type 21	Compliant		

PRINCIPLE 5:	MANAGE DISEASE AND PARASITES IN AN ENVIRONMENTAL					
		Criterion 5.1 Survival and health of farmed fish [ Compliance Criteria (Required Client Actions):	77] Auditor Evaluation (Required CAB Actions):			
Footnote		[77] See Appendix VI for transparency requirements for				
5.1.1	Indicator: Evidence of a fish health management plan for the identification and monitoring of fish diseases, parasites and environmental conditions relevant for good fish health, including implementing corrective action when required  Requirement: Yes	a. Prepare a fish health management plan that incorporates components related to	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. 21.01.2019 Karl Fredrik Otem.  Approved and signed by veterinarian dt. 21.01.2019 Karl Fredrik Ottem, Fish Health Manager.	Compliant		
	Applicability: All  Indicator: Site visits by a designated veterinarian [78] at least four times a year, and by a fish health manager [79]	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	at least once a month  Requirement: Yes  Applicability: All	b. Maintain a current list of personnel who are employed as the farm's designated veterinarian(s) [78] and fish health manager(s) [79].      c. Maintain records of the qualifications of persons identified in 5.1.2b.	a) Minimum 6 visits annually since less than 1 million fish stocked. System for weekly scheduled meetings covering e.g FH issues. Last visit 07.01.2020 The list of fish health personnel with valid HPR number was verified (marine Helse, an external fish health service provider).	Compliant		
Footnote		ponsible for health management on the farm who has the legal authority to diagnose disease an qualifications and is equivalent to a veterinarian for purposes of these standards. This definition a		other professio	ınal has equiva	ilent
Footnote	[79] A fish health manager is so	omeone with professional expertise in managing fish health, who may work for a farming compa	ny or for a veterinarian, but who does not necessarily have the authority to prescrib	e 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 legislation handled by NFSA. Seen "Prosedyre for håndtering av			
5.1.3	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.	dødfisk,svimere og ensillasje" 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 17.12.2019 and 15.11.2019 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.			
Footnote	[80] The SAD r	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 production cycles. For first audit, records for the current and prior production cycle are required.  It is recommended that farms maintain a compiled set of records to demonstrate compliance with 5.1.3 - 5.1.6.				
5.1.4	Indicator: Percentage of mortalities that are recorded, classified and receive a post-mortem analysis  Requirement: 100% [81]  Applicability: All	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) All mortalities are registered in FishTalk and and make statistics including: total mortality and mortality reasons based on visual judgement and post mortem analysis.			
		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) The FHP guide staff on sampling and post-mortem analysis. c) Compliant. If mortality exceeding a defined number, regadless of inconclusive or conclusive on-site diagnosis the fish are nent out. For example a sample sent			
		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).	out to PatoGen on 06.01.2020. All negative.  d) Record are available and documented in akvaFarmer, all mortalities 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 AquaFarmer, all mortaliies are categorised.  f) Will be submitted to ASC			
		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).	i) Will be sublificed to ASC			
		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 re	equires off-site laboratory diagnosis. A qualified professional must conduct all diagnosis. One hun number of fish from the mortality event shall		ily every fish. A	statistically re	elevant
		a. Calculate the total number of mortalities that were diagnosed (see 5.1.4) as being related to viral disease.	a) All mortalities are registered in FishTalk     Mortality categorised for all production cycles. Documented in FishTalk:			
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.	b) Maximum viral disease-related mortality for last production cycle 12G = 100 x (Total viral mortality (0)+ total number of unspecified and unexplained mortalities from the most recent complete production cycle 2012G (0) / total number of fish produced (187265) = 0%. Current generation is still on going.	Compliant		0%
	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).	c) Will be submitted to ASC			
Footnote		[82] Viral disease-related mortality count shall include unspecified and unexplained	ed 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.	a) Mortality for the last production cycle, 12G: 19.42% b) It was an initial audit. The site was in fallow for almost 8 years and the unexplained mortality for last generation in 2012 was 0. c) Will be submitted to ASC	Compliant	0
5.1.7	Indicator: A farm-specific mortalities reduction programme that includes defined annual targets for reductions in mortalities and reductions in unexplained mortalities  Requirement: Yes  Applicability: All	Note: Farms have the option to integrate their farm-specific mortality reduction program into t  a. Use records in 5.1.4a to assemble a time-series dataset on farm-specific mortalities rates and unexplained mortality rates.	a-b) Mortality rate reduction programme (Corporate leve Finnmark on <10% morts pr.generation). Mortality reduction programs also part of managment review for Cermaq Norway and Cermaq Group. Specified in FHP, on site level with concrete objectives for actions to be reduced. To reduce the mortality the fish health perssonel discuss the root causes and preventive action plans of mortalities in the recent completed production cycle.		
		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.		Compliant	
		c. Ensure that farm management communicates with the veterinarian, fish health manager, and staff about annual targets and planned actions to meet targets.	c) Confirmed during interviews		

		Criterion 5.2 Therapeutic treatments [83]				
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote		[83] See Appendix VI for transparency requirements for 5	2.1, 5.2.5, 5.2.6 and 5.2.10.			
Indicator 5.2.	o Clients and CABs for Criterion 5.2 - Records Related to The sequires that farms maintain detailed record of all chemic 2.1 through 5.2.10) under Criterion 5.2.	nerapeutic Treatments cal and therapeutant use. Those records maintained for compliance with 5.2.1, if all consolidated	d into a single place, can be used to demonstrate performance against subsequent			
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 site Requirement: Yes	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.  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	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.  c) Will be submitted to ASC	Compliant		
	Applicability: All	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).  [84] Chemicals used for the treatment	of fich			
Footnote		[84] Chemicals used for the treatment	OI IISII.			1
	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	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			
5.2.2		Naintain records or voluntary and/or mandatory chemical residue testing conducted or commissioned by the farm from the prior and current production cycles	overview of banned substances. List for USA and Japan only permitted substances  b) NFSA mandatory chemical residue testing by NIFES on site and/or at harvest line. Results published in yearly NIFES report from OK programme (Overvåking- og kartleggingsprogram).  c) Compliance verified and in accordance with requirements and also in accordance with reports and usage.	Compliant		
Footnote	[85] "Banned" means proactively prohibited by a govern	ment entity because of concerns around the substance. A substance banned in any of the prima regardless of country of production or destination of the product. The SAD recommen		salmon farm ce	rtified under	the SAD,
Footnote		[86] For purposes of this standard, those countries are Norway, the UK, Canad	da, Chile, the United States, Japan and France.			

5.2.3	Indicator: Percentage of medication events that are prescribed by a veterinarian  Requirement: 100%  Applicability: All	a. Obtain prescription for all therapeutant use in advance of application from the farm veterinarian (or equivalent, see [78] for definition of veterinarian).  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.	a) Record of prescriptions was seen. All from veterinarian / fish biolog For example: Prescription from 30.01.2020 for Alpha Max by by Elisabeth Ann Myklebust, Fish Health manager Finnmark. The HPR number was verified. b) 100% of treatment events are prescribed by a veterinarian Original presciption in site folder and regsitered in Fishtalk with witholding periods defined in prescription and in Fishtalk.	Compliant	
5.2.4	Indicator: Compliance with all withholding periods after treatments  Requirement: Yes  Applicability: All	a. Incorporate withholding periods into the farm's fish health management plan (see 5.1.1a).  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.	a) In Fishtalk, automatically notified/blocked according to degreedays witholdingtime stated 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	
		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: The farm shall publicly report (via Appendix VI) the:  1. Weighted Number of Medicinal Treatments (see Appendix VII) for each production cycle  2. The parasiticide load for each agent over the production cycle  3. The benthic parasiticide residue levels  Requirement: Yes  Applicability: All	a. Using farm data for therapeutants usage (52.1a) and the calculation presented in Appendix VII, calculate the Weighted Number of Medicinal Treatments (WNMT) 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.  b. Provide the auditor with access to records showing how the farm calculated the WMNT score.  c. Submit data on farm level WMNT score to ASC as per Appendix VI for each production cycle.	a) The WNMT score was calculated correctly and that the scores are accurate. b) Treating an entire farm with Emamectin for 2012G, the last complete production cylce, on 11.10.2012. WNMT=1 c) Will be submitted to ASC	Compliant	1
5.2.6	Indicator: The Weighted Number of Medicinal Treatments shall be at or below the country Entry Level (see Appendix VII)  Requirement: Yes  Applicability: All		a) Norway Country Entry Leve: 5. The WNMT score for the most recent production cycle: 1     b) Will be submitted to ASC	Compliant	1

5.2.7	Indicator: The farm shall reduce the Weighted Number of Medicinal Treatments, after achieving indicator 5.2.6, with 25% per 2 years until the WNMT is at or below the Global Level (see Appendix VII).  Requirement: Yes  Applicability: All	a. Every 2 years after achieving 5.2.6, check the WNMT score calculated 2 years before as above (5.2.5a). Calculate the percent difference in WMNT score between current cycle and cycle of 2 years before.  b. As applicable, submit data to ASC on WMNT score for the most recent production cycle and the two previous production cycles (Appendix VI).	a) The WNMT of the farm ( 1 ) is below the Global Level (3) b) Will be submitted to ASC	Compliant	1
5.2.8	Indicator: The farm shall implement Integrated Pest Management (IPM) according to the guidance in Appendix VII.  Requirement: Yes Applicability: All	a. Implement Integrated Pest Management (IPM) into farm management plans (see Appendix VII).      b. Review and update IPM on a production cycle basis to reflect the effectiveness of applied methods and to determine next approaches.	a) The farm has prepared a strategic plan that outlines which medical and non-medicinal measures are (to be) applied at the farm, refered to the fish health plan as an appendix. The fish health plan is also made public on https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq-norway/baerekraft/asc-rapportering/ b) The plan is reviewed and updated on a production cycle basis to reflect the effectiveness of applied methods and determine next approaches. Last revision was on 17.01.2020	Compliant	
5.2.9	Indicator: The farm shall public present (e.g. via company website) the IPM-measures that the company applies which need to be approved by a authorised veterinarian.  Requirement: Yes  Applicability: All	a. Ensure the latest version of the IPM is public on the company website b. Ensure the IPM is signed-off by an authorized veterinarian.	a)The latest update of the plan has be made public: Website b) The plan has been signed-off by an authorized veterinarian, Elizabeth A. Myklebust with valid HPR.	Compliant	
5.2.10	Indicator: The farm shall monitor parasiticide residue levels annually in the benthic sediment directly outside the AZE.  Requirement: Yes  Applicability: All	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.  b. If benthos throughout the full AZE is hard bottom, provide evidence to the CAB and request an exemption from 5.2.10  c. 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.  d. Retain documentary evidence to show how scores were obtained. If samples were analysed an independent laboratory, obtain copies of results.	NA	N/A	
5.2.11	Indicator: Allowance for prophylactic use of antimicrobial treatments  Requirement: None  Applicability: All	a. Maintain records for all purchases of antibiotics (invoices, prescriptions) for the current and prior production cycles.  b. Maintain a detailed log of all medication-related events (see also 5.2.1a and 5.2.3)  c. Calculate the total amount (g) and treatments (#) of antibiotics used during the current and prior production cycles (see also 5.2.13).	a-c) No antibiotics used the recent cycles. No medication-related events. Verified during the audit and interviewing with the site employees.	Compliant	

5.2.12	Indicator: Allowance for use of antibiotics listed as critically important for human medicine by the World Health Organization (WHO )  Requirement: None  Applicability: All	a. Maintain a current version of the WHO list of antimicrobials critically and highly important for human health [89].  b. If the farm has not used any antibiotics listed as critically important (5.2.12a) in the current production cycle, inform the CAB and proceed to schedule the audit.  c. If the farm has used antibiotics listed as critically important (5.2.12a) to treat any fish during the current production cycle, inform the CAB prior to scheduling audit.  d. If yes to 5.2.12c, 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.	a) a, b, c, d) 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.	Compliant	
5.2.13	Indicator: Number of treatments of antibiotics over the most recent production cycle  Requirement: ≤ 3  Applicability: All	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.      b. Calculate the total number of treatments of antibiotics over the most recent production cycle and supply a verifiable statement of this calculation.	N/A. No antibiotics are used by the farm.	N/A	
5.2.14	Indicator: If more than one antibiotic treatment is used in the most recent production cycle, demonstration that the antibiotic load is at least 15% less that of the average of the two previous production cycles Requirement: Yes Applicability: All	a. Use results from 5.2.13b to show whether more than one antibiotic treatment was used in the most recent production cycle. If not, then the requirement of 5.2.14 does not apply. If yes, then proceed to 5.2.14b.  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.  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.	N/A. No antibiotics are used by the farm.	N/A	
5.2.15	Indicator: Presence of documents demonstrating that the farm has provided buyers of its salmon a list of all therapeutants used in production  Requirement: Yes  Applicability: All	No guidance available yet	a-b) Internal Procedure in QMS Traceability procedure defines information flow within the company.  Procedure "Prosedyre for utarbeidelse av sporingsdokument på fisk (CV), ID 484, d.t 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 4, packed on 31.07.2013 to a buyer with all medicinal and non-medicinal treatments.	Compliant	

		Criterion 5.3 Resistance of parasites, viruses and bacteria to me			
_		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
	Instruction to Clients for Indicator 5.3.1 - Identifying the 'Expected Effect' of Medicinal Treatment Indicator 5.3.1 requires that farms identify treatments that have not produced the expected effect. The SAD Steering Committee recognizes that the "expected effect" will vary with health condition and type of medicinal treatment. Therefore farms and auditors will need to review the pre- and post-treatment condition of fish in order to understand and evaluate the impact of treatment.    Example: sea lice treatment with emamectin benzoate				
5.3.1	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.	Compliant	
		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.			
5.3.2	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.		Compliant	
5.3.3	Indicator: Specific rotation, providing that the farm has >1 effective medicinal treatment product available, every third treatment must belong to a different family of drugs.	No guidance available yet	No consecutive treatments done in present cycle without desired effect.	Compliant	

		Criterion 5.4 Biosecurity management [95]				
Footnote		Compliance Criteria (Required Client Actions):  [95] See Appendix VI for transparency requirements	Auditor Evaluation (Required CAB Actions):			
5.4.1	Indicator: Evidence that all salmon on the site are a single- year class [96]  Requirement: 100% [97]	a. Keep records of the start and end dates of periods when the site is fully fallow after harvest.	a) Smolt CVs for site with ova /stripping/startfeeding dates. Stocking date 12G: 26.04.12/12.07.2012 Harvest date for last G, 2012G: 31-07.2013 til 01-11-2013. Fist stocking date for 19G: 15.11.18/ 06.12.2018.	Compliant		
Footnote	Applicability: All farms except as noted in [97]	up to six months between inputs of smolts derived from the same stripping are acceptable as lon	b) Smolt CVs for site with ova /stripping/startfeeding dates. salmon on the site are from a single-year class.  g as there remains a period of time when the site is fully fallow after harvest.			
Footnote		[97] Exception is allowed for: ve closed, contained production units where there is complete separation of water between units e-entry disease screening protocol, dedicated quarantine capability and biosecurity measures for treatment of effluent).			V or other ef	fective
	Indicator: Evidence that if the farm suspects an unidentifiable transmissible agent, or if the farm experiences unexplained increased mortality, [98] the farm has:	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.  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.  c. Proceed to 5.4.2d if, during the most recent production cycle, either:				
5.4.2	Reported the issue to the ABM and to the appropriate regulatory authority     Increased monitoring and surveillance [99] on the farm and within the ABM     Promptly [100] made findings publicly available	- 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 https://www.cermaq.com/wps/wcm/connect/cermaq/cermaq/our-sustainable-choice/asc-dashboard/	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).				
Footnote		[98] Increased mortality: A statistically significant increase over ba				
Footnote		[99] Primary aim of monitoring and surveillance is to investigate whether a n	ew or adapted disease is present in the area.			
Footnote		[100] Within one month.				

5.4.3	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 Co Indicator 5.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal Health practices consistent with the intentions of the Code. For purposes of the ASC Salmon Stan will initiate an aggressive response to detection of an exotic OIE-notifiable disease on the farm declared free of the pathogen)]. An aggressive response will involve, at a minimum, the followidepopulation of the infected site; implementation of quarantine zones (see note below) in accordance with guidelines from OIE-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 far Code by developing relevant policies and procedures and integrating them into the farm's fish I Note: The Steering Committee recognizes that establishment of quarantine zones will likely income, though not necessarily all, of the ABM.	lealth Code (see http://www.oie.int/index.php?id=171). Compliance is defined as idard, this means that the farm must have written procedures stating how the farm ['exotic' = not previously found in the area or had been fully eradicated (area ng actions:  E for the specific pathogen; and  m practices are consistent with the intentions of the OIE Aquatic Animal Health health management plan.				
	Applicability: All	a. Maintain a current version of the OIE Aquatic Animal Health Code on site or ensure staff have access to the most current version.	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. 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.	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 healh manager Karl Fredrik Ottem	Compliant			
		-	c) Confirmed during interviews				
Footnote	[101] Compliance is defined as farm practices consistent with the intentions of the Code, to be further outlined in auditing guidance. For purposes of this standard, this includes an aggressive response to detection of an exotic OIE-notifiable disease on the farm, which includes depopulating the infected site and implementation of quarantine zones in accordance with guidelines from OIE for the specific pathogen. Quarantine zones will likely incorporate mandatory depopulation of sites close to the infected site and affect some, though not necessarily all, of the ABM. Exotic signifies not previously found in the area or had been fully eradicated (area declared free of the pathogen).						
Footnote		[102] OIE 2011. Aquatic Animal Health Code. http://www	.oie.int/index.php?id=171.				

5.4.4	Indicator: If an OIE-notifiable disease [103] is confirmed on the farm, evidence that:  1. the farm, 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	a. Ensure that farm policies and procedures in 5.4.3a describe the four actions required under Indicator 5.4.4 in response to an OIE-notifiable disease on the farm.  b. Inform the CAB if an OIE-notifiable disease has been confirmed on the farm during the current production cycle or the two previous production cycles. If yes, proceed to 5.4.4c. If no, then 5.4.4c an 5.4.4d do not apply.  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] 3) enhanced monitoring and conducted rigorous testing for the disease; and 4) promptly (within one month) made findings publicly available.  d. As applicable, submit data to ASC as per Appendix VI about any OIE-notifiable disease that was confirmed on the farm. 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).	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. e) No occurrence of OIE-notifiable diseases.	Compliant		
Footnote	[103] At the time of publication of the final draft standa	ards, OIE-notifiable diseases relevant to salmon aquaculture were: Epizootic haematopoietic neco Gyrodactylosis (Gyrodactylus salari	is).	I hemorrhagic s	epticemia (VF	dS) and
Footnote		[104] This is in addition to any notifications to regulatory bodies required unde	r law and the OIE Aquatic Animal Health Code.			
Footnote		[105] Within one month.				
PRINCIPLE 6:	: DEVELOP AND OPERATE FARMS IN A SOCIALLY RESPONSIB	Social requirements in the standards shall be audited by an individual who is a lead auditor in LE MANNER	conformity with SAAS Procedure 200 section 3.1.			
THITCH LL O.	THE STATE OF THE S	6.1 Freedom of association and collective bargaining	g [106]			
		Compliance Crit	eria			
Footnote	[106] Bargain collective	ly: A voluntary negotiation between employers and organizations of workers in order to establish	h the terms and conditions of employment by means of collective (written) agreeme	ents.		
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	a) The Freedom of Association is stated in mail labour law. Workers have fully implemented right of Freedom of association. Employer makes no interference 50% of employees are 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 vis request visits to sites will be organised without obstacles. d) Interview has confirmed information. The TU representative has possibility to visit farms. Ma	risited case by case. The rest of the time open channel by phone and e-mail. If there	Compliant		

6.1.2	Indicator: Evidence that workers are free to form organizations, including unions, to advocate for and protect their rights  Requirement: Yes  Applicability: All	a) The job contracts do not specifically states the right of freedom of association but it has reference to labour law and Tariff agreement. Both of documents state that right. b) Employer has created WEB based Personal handbook and Ethical guidelines (last revision 2015-12-14) those documents have stated the right of association. c) All workers confirmed free possibilities to be organised.	Compliant		
6.1.3	Indicator: Evidence that workers are free and able to bargain collectively for their rights  Requirement: Yes  Applicability: All	a) Trade union representative confirms no outstanding cases against the farm site management for violations to the right of Freedom of associations. b) Collective bargaining is implemented via consultations and Tariff agreement with Trade unions. c) Now in power Tariff agreement for period 2019-20	Compliant		
		Criterion 6.2 Child labor	1		
		Compliance Criteria			
6.2.1	Indicator: Number of incidences of child [107] labor [108]  Requirement: None  Applicability: All except as noted in [107]	a) Requirements of standard applies b) At the audit time none of young workers are employed. c) The age records are in place	Compliant		
Footnote	[107] Child: Any person under 15 years of age. A higher ag	ge 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	untry exceptions	in ILO conve	ntion 138.
Footnote		[108] Child Labor: Any work by a child younger than the age specified in the definition of a child.	<u> </u>	1	
	Indicator: Percentage of young workers [109] that are	a) The procedure for Young workers ID 147 rev. 12, 2017-05-30 is developed. There are personal training to be done for each young worker indicating allowed and forbidden works. b) Identification process in place.			
	protected [110]	c) Time sheets are maintained.			
6.2.2	Requirement: 100%		Compliant		
	100/0	d) No young workers employed during the audit to be interviewed.			
	Applicability: All	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.			
		f) Site was inspected. No interviews were conducted as no young workers are employed during the audit.			
Footnote		f) Site was inspected. No interviews were conducted as no young workers are employed during the audit.  [109] Young Worker: Any worker between the age of a child, as defined above, and under the age of 18.			
Footnote Footnote	[110] Protected: Workers between 15 and 18 years of a		e, and work tim	e shall not exc	ceed 10
		[109] Young Worker: Any worker between the age of a child, as defined above, and under the age of 18.  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.	e, and work tim	e shall not exc	ceed 10

	Criterion 6.3 Forced, bonded or compulsory labor							
		Compliance Criteria						
6.3.1	Indicator: Number of incidences of forced, [113] bonded [114] or compulsory labor Requirement: None 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 of forced, bonded or compulsory labor identified during interview with the employees.  d) No cases of forced, bonded or compulsory labor identified during interview with the employees.  e) No cases of forced, bonded or compulsory labor identified during interview with the employees.  f) Interview has confirmed information. Payroll records are maintained.	Compliant					
Footnote	[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 remonetary sanctions, physical punishment, or the loss of rights and privileges or restriction of movement (e.g., withholding of identity documents).	payment of deb	ot. "Penalty" o	can imply			
Footnote		[114] Bonded labor: When a person is forced by the employer or creditor to work to repay a financial debt to the crediting agency.						
		Criterion 6.4 Discrimination [118]						
		Compliance Criteria						
Footnote	[115] Discrimination: Any distinction, exclusion or preferen	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 bonus is not by itself discriminatory. Positive discrimination in favor of people from certain underrepresented groups may be legal in some countries.	or performand	e-based pay i	ncrease or			
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 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	Depolicies stating that the company does not engage in or support discrimination in hiring, remuneration, access to training, promotion, termination or retirement based on race, cast gender, sexual orientation, union membership, political affiliation, age or any other condition that may give rise to discrimination.	e, national origi	n, religion, di	sability,			
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			$\Box$
6.5.1	Indicator: Percentage of workers trained in health and safety practices, procedures [117] and policies on a yearly basis  Requirement: 100%	a) Documentation is developed and is available in working places. b) Employees know emergency respond procedures. The training records are kept on site. Employees are trained and annual refreshment trainings. Procedure for conducting the drills (ID 1126) is implemented.	Compliant		
	Applicability: All	c) Safety drills were organised on site on 25-02-2019.			
Footnote		[117] Health and safety training shall include emergency response procedures and practices.			
6.5.2	Indicator: Evidence that workers use Personal Protective Equipment (PPE) effectively  Requirement: Yes  Applicability: All	a) The List of health and safety hazards is maintained in H&S risk assessment documentation. b-c) PPEs are provided and for the workers training in proper use of PPE use is done. Confirmed during interview with the employess. d) Interview confirms PPE management. Howevere, some safety and first aid components, burn gel, eye wash, and bandages were expired.	Minor	Some safety and first aid component s, burn gel, eye wash, and bandages were expired.	Site visit on 04-02- 2020
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 in 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 for all permanent employees. emporary 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. For example: a diving report on 06-05-2019 done by Barenetsdykk Mchamn AS and another one done on 29-05-2019 by AQS Holmtvn was seen and the ASC requirements were verified.	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]  Requirement: 0 (None)  Applicability: All	a) Documents are available at the company. The Tariff agreement sets the minimum salary. There is no legal minimum wage in Norway. 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.	Compliant			
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]  Requirement: Yes  Applicability: All	a) The assessment of cost of living were conducted. The basics need wage is covered by the wage tariff agreament that all employees get. 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.	Compliant			
Footnote	[120] Basic needs wage: A wage that cov	ers 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 basic	asic needs of wo	orkers.		
6.6.3	Indicator: Evidence of transparency in wage-setting and rendering [121]  Requirement: Yes  Applicability: All	a) The contracts of employees has appendix defining the bonus application. The bonuses are defined in Bonus document. b) The clearly understood by workers. c) Wages are transferred to personal bank accounts d) Interview has confirmed information about wages	Compliant			
Footnote	[121] Payments shall be rendered 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 of labor-only contracting relationships or false apprenticeship schemes c) Interview confirms legal employment by contracts.	Compliant					
Footnote	apprenticeship terms without stipulating terms of the a	oprenticeship schemes are not acceptable. This includes revolving/consecutive labor contracts to deny benefit accrual or equitable remuneration. False Apprenticeship Scheme: The pprenticeship or wages under contract. It is a "false" apprenticeship if its purpose is to underpay people, avoid legal obligations or employ underage workers. Labor-only contracting tablishing a formal employment relationship for the purpose of avoiding payment of regular wages or the provision of legally required benefits, such as health and safety protections	arrangement:	_				
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  Applicability: All	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. c) The interviews are confirming the information above.	Compliant					
6.8.2	Indicator: Percentage of grievances handled that are addressed [123] within a 90-day timeframe  Requirement: 100%  Applicability: All	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. c) Documentation is maintained. The case was addressed in time.	Compliant					
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						
691	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. c) Interview has confirmed no cases of improper disciplinary behaviour.	Compliant					
	Applicability: All	у плетчем наз солинием по сазез от штргорет изстринату веначной.						
Footnote	[124	Mental Abuse: Characterized by the intentional use of power, including verbal abuse, isolation, sexual or racial harassment, intimidation or 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 ver	rbal 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 understood, and not used arbitrarily. Fines or basic wage deductions shall not be acceptable disciplinary practices.	promotions are	clearly stated	l and
		Criterion 6.10 Working hours and overtime  Compliance criteria	l		
		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).			
6.10.1	Indicator: Incidences, violations or abuse of working hours and overtime laws [126]  Requirement: None  Applicability: All	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. b) Workers are registering working hours daily into Capitech system. Site manager approves. Working hours are within allowed limits. c) The work in shifts is applied and agreed by workers. d) Interview has confirmed no abuse of working time and overtime amounts.	Compliant		
Footnote	[126] In cases whe	ere local legislation on working hours and overtime exceed internationally accepted recommendations (48 regular hours, 12 hours overtime), the international standards will apply.			
6.10.2	Indicator: Overtime is limited, voluntary [127], paid at a premium rate [128] and restricted to exceptional circumstances  Requirement: Yes  Applicability: All except as noted in [130]	a) Overtime for workers is paid at premium rate as could be seen in payslips. b) The procedure for working hours was developed. The timesheets are managed in Capitech system. c) Interviews have confirmed voluntary overtime.	Compliant		
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			
		Compliance criteria			
6.11.1	Indicator: Evidence that the company regularly performs training of staff in fish husbandry, general farm and fish escape management and health and safety procedures  Requirement: Yes  Applicability: All	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. b) Training records maintained on site and Intelex system. c) Interview confirms that company supports education initiatives.	Compliant		

		Criterion 6.12 Corporate policies for social responsibility			
		Compliance criteria			
6.12.1	Indicator: Demonstration of company-level [129] policies in line with the standards under 6.1 to 6.11 above  Requirement: Yes  Applicability: All	a) Company level policies are available and are in line with requirements of the standard. b) Policies are approved. c) The policies cover all company operations. d) The access is provided.	Compliant		
Footnote		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 p	roduction and p	rocessing faci	ilities.
PRINCIPLE 7	: BE A GOOD NEIGHBOR AND CONSCIENTIOUS CITIZEN				
		Criterion 7.1 Community engagement  Compliance Criteria	T		I
7.1.1	Indicator: Evidence of regular and meaningful [130] consultation and engagement with community representatives and organizations  Requirement: Yes  Applicability: All	a) The invitation was sent in 22.05.2019 to interested parties. The meeting was organised on 13.06.2019. Few people attended in the meeting. b) Consultations have included main points required by the standard. c) The participants from local community have participated in consultation. They were invited to contribute to agenda. 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. 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.	Compliant		
Footnote	[130] Regular and meaningful: Meetings shall be held at le	east bi-annually with elected representatives of affected communities. The agenda for the meetings should in part be set by the community representatives. Participatory Social Imophies option to consider here.	pact Assessmer	t methods ma	ay be one
7.1.2	Indicator: Presence and evidence of an effective [131] policy and mechanism for the presentation, treatment and resolution of complaints by community stakeholders and organizations  Requirement: Yes  Applicability: All	a) The complaints could be delivered via company e-mail, company workers or whistle blowing channel. b) No complaints related to farm. c) No complaints related to farm received. d) The extensive communication is completed during initial certification stage. No inquiries received. The interview was not organised due to logistics and time limitations.	Compliant		
		[131] Effective: In order to demonstrate that the mechanism is effective, evidence of resolutions of complaints can be given.		· ·	

7.1.3	•	a) If there is any chemical treatment the signs with the text "on-going medical treatment" are available and used. The procedure for using therapeutic and handling of waste, dated 05.04.2018 covers this requirment. b) Signs at site are used. c) Communications for potential health risks took place during the consultation meeting. The risks related to external environment and people is not well defined. 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 limitations.	Compliant					
Footnote		[132] Signage shall be visible to mariners and, for example, to fishermen passing by the farm.						
	<u> </u>	Criterion 7.2 Respect for indigenous and aboriginal cultures and traditional territories						
		Compliance Criteria						
	Instruction to Clients and CARs on Criterion 7.2. Traditional Territories of Indigenous Grouns							

## 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.

7.2.1	Indicator: Evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations  Requirement: Yes  Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133]	a) The application to have permission to operate covered identification and hearing of indigenous groups. The Sammi group of rein deer owners present in the area. b) Farm management demonstrates an understanding of relevant local and national laws and regulations. No consultations are required. c) No specific consultations are required. 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 limitations. e) It was communicated during the application processing to start the sites. Sami representatives were invited, but no participants nor enquires were presented. f) It was communicated during the application processing to start the sites. Sami representatives were invited, but no participants appeared nor enquires were presented.	Compliant	
7.2.2	Indicator: Evidence that the farm has undertaken proactive consultation with indigenous communities  Requirement: Yes [133]  Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal 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.  a) It was communicated during the application processing to start the sites. Some Sami groups are present in the area.  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 enquires presented.  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.	Compliant	
Footnote		[133] All standards related to indigenous rights only apply where relevant, based on proximity of indigenous territories.		

7.2.3	Indicator: Evidence of a protocol agreement, or an active process [134] to establish a protocol agreement, with indigenous communities  Requirement: Yes  Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133]	a) It was communicated during the application processing to start the sites. Sami representatives were invited, but no participants nor enquires were presented. b) It was communicated during the application processing to start the sites. Sami representatives were invited, but no participants appeared nor enquires were presented.	Compliant					
Footnote	[134] To demonstrate an active process, a farm must sh	ow ongoing efforts to communicate with indigenous communities, an understanding of key community concerns and responsiveness to key community concerns through adaptive  Criterion 7.3 Access to resources	farm manageme	ent and other	actions.			
			ı					
	I	Compliance Criteria		$\vdash$				
7.3.1	Indicator: Changes undertaken restricting access to vital community resources [135] without community approval  Requirement: None  Applicability: All	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. b) The community approval for resources was done during operation application processing to start the sites. 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.	Compliant					
Footnote	[135] Vital community resources can include freshwater, I	and 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 reson the Dialogue standard.	urce, this would	be unaccepta	able under			
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 stage. No inquiries received. The interview was not organised due to logistics and time limitations.	Compliant					
A farm s	INDICATORS AND STANDARDS FOR SMOLT PRODUCTION  A farm seeking certification must have documentation from all of its smolt suppliers to demonstrate compliance with the following standards. The requirements are, in general, a subset of the standards in Principles 1 through 7, focusing on the impacts that are most relevant for smolt facilities. In addition, specific standards are applied to open systems (net pens), and to closed and semi-closed systems (recirculation and flow-through). [136]							
Footnote	[136] The SAD SC proposes this approach to addressing environmental and social performance during the smolt phase of production. In the medium term, the SC anticipates a system to audit smolt production facilities on site. In the meantime, farms will need to work with their smolt suppliers to generate the necessary documentation to demonstrate compliance with the standards. The documentation will be reviewed as part of the audit at the grow-out facility.							

SECTION 8: STANDARDS FOR SUPPLIERS OF SMOLT					
Standards related to Principle 1					
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
8.1	Indicator: Compliance with local and national regulations on water use and discharge, specifically providing permits related to water quality  Requirement: Yes  Applicability: All Smolt Producers	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 supplier of smolts is Dyping (semiclosed). b) Approval from Fylkesmannen i Nordland, with 2015/43, date 24.01.2018 for the production: 3500 ton feed. no limitation for discharge until 1.1.2021. Water abstraction permit from NVE, dated 21.10.2016, ref. 200701016-49 for a maximum volume of 15 m3 per minutes. c) Inspection from Mattilsynet 19.June 2019. No NCs.	Compliant	
		b. Where legal authorisation related to water quality are required, obtain copies of smolt suppliers' permits.			
		c. Obtain records from smolt suppliers showing monitoring and compliance with discharge laws, regulations, and permit requirements as required.			
8.2	Indicator: Compliance with labor laws and regulations  Requirement: Yes  Applicability: All Smolt Producers	Obtain declarations from smolt suppliers affirming compliance with labor laws and regulations.	a) Dyping are internal suppliers. Cermaq policies are applied and followed by the smolt supplier.      b) No Inspections relating to labour conditions/issues has been held recent years.	Compliant	
		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)			
Standards related to Principle 2					
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
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	Note: If the smolt facility has previously undertaken an independent assessment of biodiversity use such documents as evidence to demonstrate compliance with Indicator 8.3 as long as all co			
		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) Dyping: the risk assessment of the smolt production was revised on 21.08.2019. which include asociated risked related to animals, escapes, enviroments, sea floor., MOM-B (every second year), result category 1, very good and 4.7.2016 category 1, MOM-C (every 4 year)	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.			
		implementing a plan to address potential impacts identified in the assessment.			

		Instruction to Clients for Indicator 8.4 - Calculating Total Phosphorus Released per Ton of Fis Farms must confirm that each of their smolt suppliers complies with the requirement of indicat facility can release into the environment per metric ton (mt) of fish produced over a 12-month released is made using a "mass balance" approach. Detailed instructions and formulas are give If applicable, farms may take account of any physical removals of phosphorus in the form of slute the smolt supplier has records showing the total quantity of sludge removed from site over the the supplier determined phosphorus concentration (% P) in removed sludge by sampling and the sludge was properly disposed off site and in accordance with the farm's biosolid managen	tor 8.4. This specifies the maximum amount of phosphorus that a smolt production period. The requirement is set at 4 kg/mt. The calculation of total phosphorus n in Appendix VIII-1.  dge provided there is evidence to show: e relevant time period; analyzing representative batches; and			
		a. Obtain records from smolt suppliers showing amount and type of feeds used for smolt production during the past 12 months.				
	Indicator: Maximum total amount of phosphorus released	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) 377010 kg feed for period 01.01.18-31.12.18 b) Values for different feed types delivered from feed suppliers were seen and verified. c) 6131.9 kg total amount of phosphorus in feed			
8.4	into the environment per metric ton (mt) of fish produced over a 12-month period (see Appendix VIII-1)  Requirement: 4 kg/t of fish produced over a 12-month period  Applicability: All Smolt Producers	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.				
		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 Dyping:365657 kg biomass production.  e) Calculations are correct.	Compliant		12,47
		e. Calculate the amount of phosphorus in fish biomass produced (result from 8.4d) using the formula in Appendix VIII-1.	Dyping:12,47 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  f) No sludge produced/removed			
		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.	g) NA			
		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.				

		Standards related to Principle 3								
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):							
		a. 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).								
	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.	N/A Salmo salar is native to region.	Compliant						
	Requirement: Yes [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:	Ny A Sainto Saiat is flative to region.	Compliant						
	Applicability: All Smolt Producers except as noted in [137]	non-native species are separated from wild fish by effective physical barriers that are in place and well maintained;     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.								
		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 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 specimens or biological barriers. The 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 specimens or biological barriers.									

	Indicator: Maximum number of escapees [138] in the most recent production cycle	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.  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.	a) No escapees according to internal statement. Internal Risk Assessment with instruction for registration and reporting. No incident reported. Verified by Fisheries Directorate escape incidents overviw (https://www.fiskeridir.no/)      b) No incident reported. Verified by Fisheries Directorate escape incidents		
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]).	Compliant		
		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.			
Footnote		[138] Farms shall report all escapes; the total aggregated number of escapees p	per production cycle must be less than 300 fish.		
Footnote	1	or an escape event that is clearly documented as being outside of the farm's control. Only one su plying for certification. The farmer must demonstrate that there was no reasonable way to predi high-traffic waterways are not intended to be covered	ct the events that caused the episode. Extreme weather (e.g., 100-year storms) or a	•	•
8.7	Indicator: Accuracy [140] of the counting technology or counting method used for calculating the number of fish  Requirement: ≥98%	Obtain records showing the accuracy of the counting technology used by smolt suppliers.  Records must include copies of spec sheets for counting machines and common estimates of error for hand-counts.	a, b) Last secure point of counting in vaccination. Biocounter electronic counting/registartion system documents presented. Dyping: Aquascan control unit 98-100 % accuracy. Verified by provider	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%.	specsifications.		
Footnote		[140] Accuracy shall be determined by the spec sheet for counting machines and thro	ugh common estimates of error for any hand counts.		
		Standards related to Principle 4			
		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) 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	Compliant	

		Note: see instructions for Indicator 4.6.1.				
		a. Obtain records from the smolt supplier for energy consumption by source (fuel, electricity) at the supplier's facility throughout each year.				
	Indicator: Presence of an energy-use assessment verifying the energy consumption at the smolt production facility	b. Confirm that the smolt supplier calculates total energy consumption in kilojoules (kj) during the last year.	a) Records OK in excel documents.			
8.9	(see Appendix V subsection 1 for guidance and required components of the records and assessment)  Requirement: Yes, measured in kilojoule/mt	c. Obtain records to show the smolt supplier calculated the total weight of fish in metric tons (mt) produced during the last year.	b, c, d) Fuel: 364778830,968 kJ Electricity 8050557718,8 kJ.	Compliant		25625263,
	fish/production cycle  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.	Total 8415336549,76 kJ. Biomass produced: 328.4 mt Total energy per mt biomass: 25625263,54 kJ/mt e) Records OK in excel. Continuous evaluation.	·		54 kJ/mt
		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.				
	Indicator: Records of greenhouse gas (GHG [141])	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.				
8.10	emissions [142] at the smolt production facility and 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.	a, b, c) Records OK  Scope 1: emission from Fuel: 17727,43 kg CO2 Scope 2: emission from electricity: 250635,74 kg CO2	Compliant		Scope 1: 17727,43 kg CO2 Scope 2:
	Applicability: All Smolt Producers	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.	d) CO2 used e) Calculaitons and asessment provided by CO2 focus. Data from IEA 2013, SSB 2013, EIA 2011, IPCC 2006.			250635,74 kg CO2
		e. Obtain evidence to show that the smolt supplier has undergone a GHG assessment in compliance with requirements Appendix V-1 at least annually.				
Footnote	[141] For the purposes of this standard, GI	HGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide (CO <sub>2</sub> ); methane (CH <sub>4</sub>	); nitrous oxide (N2O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and su	phur hexafluori	ide (SF <sub>6</sub> ).	
Footnote		[142] GHG emissions must be recorded using recognized methods, standa	rds and records as outlined in Appendix V.			

		Standards related to Principle 5			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
	<b>Indicator</b> : Evidence of a fish health management plan, approved by the designated veterinarian, for the identification and monitoring of fish diseases and parasites	a. Obtain a copy of the supplier's fish health management plan for the identification and monitoring of fish disease and parasites.	a-b) Internal Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. Approved and signed by veterinarian		
	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.	(fish health manager) dt 26.08.2019 .	Compliant	
		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) 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]  Requirement: 100%	b. Maintain a list of diseases for which effective vaccines exist for the region, developed by the farm veterinarian and supported by scientific evidence.	b) In fish health plan and CV Ttype of disease and control monitoring strategies, vaccines/pathogens type/product name detailed		
		c. Obtain from the smolt supplier(s) a declaration detailing the vaccines the fish received.	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.  d) 100% vaccinated according to national legislation. Verified in smolt CV and	Compliant	
	Applicability: All Smolt Producers	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.	Fishtalk. Verified towards registrations in FHP / CV / Fishtalk. Internal supplier: All fish vaccinated with vaccine type AJ-micro-6. in addition, smolts from Laksefjord were vaccinated with Alpha Dip ERM Salar and smolts from Akvafarm were vaccinated with Alpha jet 6-2.		
Footnote	[143] The farm's designated veterinarian is responsible	le for undertaking and providing written documentation of the analysis of the diseases that pose demonstrate to the auditor that this decision is consis	•	nine which vacc	inations to use and

8.13	Indicator: Percentage of smolt groups [144] tested for select diseases of regional concern prior to entering the grow-out phase on farm	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).  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.										
8.13	Requirement: 100%  Applicability: All Smolt Producers	a. 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.										
		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	Compliant								
Footnote	to-fish transmission is a concern) but originating in freshv	risk, including environment, husbandry and host factors that might contribute to sharing disease vater should be on the list of diseases tested. The designated veterinarian to the smolt farm is re ease or a pathogen carrier state in fresh water is deemed to have a negative impact on the grow on demand.	quired to evaluate, based on scientific criteria and publicly available information, when the control is a scientific criteria and publicly available information, when the control is a scientific criteria and publicly available information.	nich diseases sh	ould be tested	d for. This						
8.14	Indicator: Detailed information, provided by the designated veterinarian, of all chemicals and therapeutants used during the smolt 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 site  Requirement: Yes  Applicability: All Smolt Producers	a. Obtain from the smolt supplier(s) a detailed record of all chemical and therapeutant use for the fish sold to the farm that is signed by their veterinarian and 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; - mt of fish treated; - the WHO classification of antibiotics (also see note under 5.2.8); and - the supplier of the chemical or therapeutant.	a) Therapeutant used, verified in fish CV also documented in FishTalk according to FHP - type, producer and batch.  Prescription signed by responsible vetrinary / FHB/ Vaccines produced by Pharmaq. Therapeutant used and documented on fishgroup.	Compliant								

8.15	Indicator: Allowance for use of therapeutic treatments that include antibiotics or chemicals that are banned [145]	a. Provide to the smolt supplier the list (see 5.2.2a) 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 [146].  b. Inform smolt supplier that the treatments on the list cannot be used on fish sold to a farm with ASC certification.  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.	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 permitted substances c) Vaccines in fish CV and Fish Talk - type and producer and batch. Ananesthetics and antiparasite treatment formalin, ok according to list.	Compliant											
Footnote		[145] "Banned" means proactively prohibited by a government entity be	cause of concerns around the substance.												
Footnote		[146] For purposes of this standard, those countries are Norway, the UK, Cana	da, Chile, the United States, Japan and France.	1											
8.16	Indicator: Number of treatments of antibiotics over the most recent production cycle  Requirement: ≤ 3  Applicability: All Smolt Producers	a. Obtain from the smolt supplier records of all treatments of antibiotics (see 8.14a).      b. Calculate the total number of treatments of antibiotics from their most recent production cycle.	a-b) No antibiotics used. Seen fish CV with all treatments identifed.	Compliant											
8.17			a, b, c) Internal supplier. List (allowed and banned substances - against WHO critical list. No AB used. Seen fish CV with all treatments identifed.	Compliant											
			[147] The 3rd edition of the WHO list of critically and highly important antimicrobials was released in 2009 and is available at: http://www.who.int/foodborne_disease/resistance/CIA_3.pdf.												
Footnote	[147] The 3rd 6	edition of the WHO list of critically and highly important antimicrobials was released in 2009 and	l is available at: http://www.who.int/foodborne_disease/resistance/CIA_3.pdf.												

		Note: see instructions for Indicator 5.4.3 reg	arding evidence of compliance with the OIE Aquatic Animal Health Code.		
	Indicator: Evidence of compliance [149] with the OIE	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).			
8.18	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.	a, b, c) As an internal supplier, is operated in accordance with the Cermaq policy and procedures concerning compliance with the OIE Aquatic Animal Health Code. See Cermaq 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.	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		with the intentions of the Code, to be further outlined in auditing guidance. For purposes of this tation of quarantine zones in accordance with guidelines from OIE for the specific pathogen. Exore	the state of the s		n includes
Footnote		[150] OIE 2011. Aquatic Animal Health Code. http://www.	oie.int/index.php?id=171.		
		Standards related to Principle 6  Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
	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.			
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.	Compliant	

		Standards related to Principle 7										
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			<u> </u>						
	Indicator: Evidence of regular consultation and engagement with community representatives and organizations	Farms must comply with Indicator 7.1.1 which requires that farms engage in regular consultat of their smolt suppliers complies with an equivalent requirement. Farms are obligated to m meeting agenda, mi  - the smolt supplier engaged in "regular" con-  - the supplier's consultations were effective (e.g.	Instruction to Clients for Indicator 8.20 - Consultation and Engagement with Community Representatives  ms 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 of their smolt suppliers complies with an equivalent requirement. Farms are obligated to maintain evidence that is sufficient to show their suppliers remain in full compliance. Evidence 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) The invitation was sent 2017-09-14 by e-mail to Steigen commune and other interested parties. The meeting was organised on 2017-09-26. The 6 participants in the meeting.	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.									
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. The complaints were received and effectively addressed. For example Laksefjord meeting with communites date 30.11.2018. 2 persons have attended.	Compliant								
	Indicator: Where relevant, evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations	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.	a,b) 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.									
8.22	Requirement: Yes  Applicability: All Smolt Producers	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.		Compliant								
	Indicator: Where relevant, evidence that the farm has undertaken proactive consultation with indigenous	a. See results of 8.22a (above) to determine whether the requirements of 8.23 apply to the smolt supplier.	a) It was communicated during the application processing to start the sites. No indigenous groups or aboriginal people are present in neighbourhood.     Based on 8.2.2 a) the requirements of 8.2.3. do not apply.									
8.23	communities  Requirement: Yes  Applicability: All Smolt Producers	b. Where relevant, obtain documentary evidence that smolt suppliers undertake proactive consultations with indigenous communities.	b) No consultation is applicable. c) No traditional and indigenous groups are involved.	Compliant								

		ADDITIONAL REQUIREMENTS FOR OPEN (NET-PEN) PRODUCTION In addition to the requirements above, if the smolt is produced in an open system, evidence			
8.25	Indicator: Allowance for stocking smolts produced in cage- culture  Requirement: Permitted only if supplying farms are 1) operated in a region where indigenous salmonids are present of the same species being cultivated and 2) the farm is certified to the ASC Freshwater trout Standard  Applicability: open (net-pen) production of smolt	No guidance available yet	NA	N/A	
8.26	Indicator: Water quality monitoring matrixcompleted and submitted to ASC (see Appendix VIII-2)  Requirement: Yes  Applicability: open (net-pen) production of smolt	No guidance available yet	NA	N/A	
	Additionally, if the smol	ADDITIONAL REQUIREMENTS FOR SEMI-CLOSED AND CLOSED PRO t is produced in a closed or semi-closed system (flow through or recirculation) that discharges in			
8.27	Indicator: Minimum oxygen saturation in the outflow	a. Obtain the water quality monitoring matrix from each smolt supplier (see 8.32b).      b. Review the results (8.33a) for percentage dissolved oxygen saturation in the effluent to confirm that no measurements fell below 60% saturation.	NA NA	N/A	
	·	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 rea	ding below 60 percent would require daily continuous monitoring with an electronic probe and	2	imes.	
Footnote		[157] See Appendix VI for transparency require	ments for 8.33.		

8.28	Indicator: Macro-invertebrate surveys downstream from the farm's effluent discharge demonstrate benthic health that is similar or better than surveys upstream from the discharge (methodology in Appendix VIII-3)  Requirement: Yes	a. Obtain documentation from smolt supplier(s) showing the results of macro-invertebrate surveys.      b. Review supplier documents (8.34a) to confirm that the surveys followed the prescribed methodology (Appendix VIII-3).	NA	N/A	
	Applicability: All Smolt Producers Using Semi-Closed or 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 (sludge) Best Management Practices (BMPs) (Appendix VIII 4)  Requirement: Yes  Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems	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 29		b. Obtain from smolt suppliers a process flow diagram (detailed in Appendix VIII-2) showing how the farm is dealing with biosolids responsibly.	NA		
		c. Obtain a declaration from smolt supplier stating that no biosolids were discharged into natural water bodies in the past 12 months.			
		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

NC reference	Indicator	Grade of NC	Description of NC	Evidence	Date of detection	Status	Related VR (#)	Root cause (by client)	Corrective/ preventive actions proposed by UoC and accepted by CAB	Deadline for NC close-out	Evaluation by CAB (including evidence)	Actual date of close- out	Date request for delay received	Justification for delay	Next deadline	Request evaluation by CAB	Date request approved
2020-Initial-1	2.1.1		A minor NC is raised because sediments are not sampled at the time of peak cage biomass.	MOM-C hybrid - ASC adapted performed by Akvaplan Niva AS on 02.10.2019	04-02-2020	Open		Since the last production on Hundbergan ended in 2013 when there was requirements for either mom-C og ASC specific testing, we had to perform an early sampled test to be able to show some "guideline" results at the audit.	We always take MoM-B and MoM- C/ASC hybrid testing on max biomass. The testing at site Hundbergan will be done at maximum load in June 2020. Report is expected in September 2020.	17-06-2020	The root couse and action plan is approved. The evidence of the implementation of the action plan will be followed up in next audit cycle.		24-02-2020	No maximum load until June 2020	10-08-2020	17-03-2020	17-03-2020
2020-Initial-2	2.1.2		A minor NC is raised because sediments are not sampled at the time of peak cage biomass. The results also showed that the Shannon Weinar of station C4 outside AZE had SH values of 2.53, not ASC compliant.		04-02-2020	Open		2. Environmental results are	1.We always take MoM-B and MoM-C/ASC hybrid testing on max biomass. The testing at site Hundbergan will be done at maximum load in June 2020. Report is expected in September 2020. 2. As mentioned we also sample for MoM-B results at max. load and we get the results from this testing after a few weeks which gives us plenty of time to evaluate the state. The results are then reported to the authorities which evaluate if they think the production load is too high. We also do an internal evaluation which may lead to measures to improve the benthic state like an expanded fallowing period if needed. As mentioned, the environmental results are difficult to control and they may have improven since last testing.		The root couse and action plan is approved. The evidence of the implementation of the action plan will be followed up in next audit cycle.		24-02-2020	No maximum load until June 2020	10-08-2020	17-03-2020	17-03-2020
2020-Initial-3	2.1.3			MOM-C hybrid - ASC adapted performed by Akvaplan Niva AS on 02.10.2019	04-02-2020	Open		Since the last production on Hundbergan ended in 2013 when there was requirements for either mom-C og ASC specific testing, we had to perform an early sampled test to be able to show some "guideline" results at the audit.	We always take MoM-B and MoM-C/ASC hybrid testing on max biomass. The testing at site Hundbergan will be done at maximum load in June 2020.  Report is expected in September 2020.	17-06-2020	The root couse and action plan is approved. The evidence of the implementation of the action plan will be followed up in next audit cycle.		24-02-2020	No maximum load until June 2020	10-08-2020	17-03-2020	17-03-2020
2020-Initial-4	2.3.1		No data on percentage of the fines in feed for 2019 was presented.	Interview with the site manager	04-02-2020	Open		Miscommunication between departments in the organisation. Lack of following up/organisation of the task (the task being providing Hundbergan with measuring equipment).	There has been some organisational changes which led to the delay of ordering the equipment for feed testing to Hundbergan. This delay was detected in September/October 2019. The equipment was then ordered, but was not delievered to Hundbergan once it arrived. The site manager did not ask for it either and therefore the equipment has unfortunately not been used before january 2020.	17-06-2020	The root couse and action plan is approved. The evidence of the implementation of the action plan will be followed up in next audit cycle.	24-02-2020		It will be done for new feeds delivered after the audit date		17-03-2020	17-03-2020

Summary of findings - ASC Salmon Standard 1/2



2020-Initial-5	4.7.4	Minor	The sampling stations CU5 (37.5 46.6 mg Cu/kg) and CU1 (38.1- 51.8 mg Cu/kg) had values higher than ASC requirements.	MOM-C hybrid - ASC adapted performed by Akvaplan Niva AS on 02.10.2019	04-02-2020	Open	Environmental results are difficult to control, but values from copper testing may be due to coppertreated nets being used at the site Hundbergan.	A new test will be conducted in June 2020. Results from this test will give a more exact result of the impact of the production. The results from the tests are reported to the authorities which evaluate if the production load is too high. If the results are not improved, an internal evaluation will be done to minimize the impact on the environment on the next generation.		The root couse and action plan is approved. The evidence of the implementation of the action plan will be followed up in next audit cycle.		24-02-2020	No maximum load until June 2020	10-08-2020	17-03-2020	17-03-2020
2020-Initial-6	6.5.2	Minor	Some safety and first aid components, burn gel, eye wash, and bandages were expired.	Site visit on 04-02-2020	04-02-2020	Closed	An external company has previously done yearly inspections on all safety and first aid components. The site manager had not registered that this service is no longer conducted by external hiering and the attention to this task has therefore been overlooked.	All site managers has been reminded of canceled service from external company at the regularly hold "Site manager meeting" 17.02.2020. Site manager has changed first aid sultcase and bought new equipment (see seperate sheet for pictures).	17-06-2020	The root couse and action plan is approved. The evidence of the implementation of the action plan is also approved	24-02-2020					

Summary of findings - ASC Salmon Standard 2/2



## **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.
	certified and non-certified product, including	the farm is within the scope of the ASC Salmon	NA
	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.	There is a risk of substitution of certified with non-	The risk is low as it is controlled by the ASC CoC Certification of the harvest plant. Transports are always identifiable on production unit level (cage). Only one site and one cage is harvested by the wellboats at a time.
	The possibility of subcontractors being used to handle, transport, store, or process certified products.	wellboats carry live fish are subcontracted.	The subcontracted wellboats are covered by the ASC CoC certification of the harvest plant. Only approved wellboats are used to transport the fish between the site and waiting cages/harvest plant.
	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.	No other possibility for mixing products.	NA



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

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

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

Owned by client	Subcontracted by client
38	N/A
1	N/A

Site name(s)	Reason(s)
0	

The company has a robust and well implemented quality system, which covers the whole organization from smolt to finished slaughtered fish. The company is certified according to GLOBALG.A.P in the whole production chain.

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.

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 is Cermaq Norway AS, avd. Slakteri Steigen 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.	N/A see 10.6.1
10.6.3 The point from which chain of custody is required to begin	The CoC starts when fish have left the cage onto the wellboat og slaughterboat. After this, the ASC CoC certificate of the harvest plant takes over of the certified fish.
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 of the operation against the specific elements in the standard and guidance documents

The evaluation of the company's compliance to the requirements in the ASC Salmon Standard and all references and findings is described in detail in the report section II Audit template and section IV Audit Report Closing.
6 minor NCs were raised on the indicators 2.1.1, 2.1.2, 2.1.3, 2.3.1, 4.7.4, and 6.5.2

Following VRs were also used in the report.

VR used during audit: VR nr.39 approved 15.09.2014 by ASC on phosphorus release from smolt producer. Rationale for use of VR 39 during audit is that as for accepted VR 39 the smolt producers effluent is seawater not freshwater.

VR nr. 179 approved 24.08.16 by ASC for translation of reports into local language (Norwegian). Reports will be accepted in English.

VR 136 approved on 02/03/2016 by ASC: It is a breach of Norwegian regulations for the applicant to conduct sea lice counts in wild salmonids, unless the applicant is a recognised research institute with government acknowledgement.

VR list and updated documentation for VR can be found on the ASC website: http://www.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)

12.2 A clear statement on whether or not the audited unit of Hundbergan site has the capacity to meet the requirements of ASC standard 1.3 July 2019.

CAR v.2.1 - Audit report - Closing



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.	N/A
13 Decision	
13.1 Has a certificate been issued? (yes/no)	No
13.2 The Eligiblity Date (if applicable)	N/A
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:	
13.4.1 The date of issue and date of expiry of the certificate.	
13.4.2 The scope of the certificate	Production of Atlantic salmon ( <i>Salmo salar</i> ).

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.

13.4.3 Instructions to stakeholders that any complaints or objections to the CAB decision are to be Stakeholders are welcome to contact Bureau Veritas on e-mail: asc.farm@bureauveritas.com. Information on Bureau Veritas complaints the CAB decision are to be

### 14 Surveillence

14.1 Next planned Surveillance

14.1.1 Planned date feb-21

14.1.2 Planned site

Hundbergan

14.2 Next audit type

14.2.1 Surveillence 1

14.2.2 Surveillance 2

14.2.3 Re-certification

14.2.4 Other (specify type)

CAR v.2.1 - Audit report - Closing