

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

03-12-2019/22-01-2020



PDF 1.3 CAB Contact 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

or chieffe		
PDF 1.4.1	Name of the Client	Cermaq Norway AS
PDF 1.4.1.a	Name of the unit of certification	Elvevika 32797
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)
Elvevika 32797	N: 70.918663 E: 25.009362	Salmon (Salmo Salar) In scope	Owned	04 05.02.2020 Surveillance 1	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 - July 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



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
Måsøy 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
Reinbeitedistrikt 16 Karasjok Vest	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 audit and submit input.	The week before audit	Sending e-mail before Audit



Havøysund Båtforening	Local interest organisation	Invitation to participate in the audit and submit	The week before audit	Sending e-mail before Audit
Måsøy Jeger og Fisk	Local interest organisation	Invitation to participate in the audit and submit	The week before audit	Sending e-mail before Audit
Havøysund Fiskarlag	Local interest organisation	Invitation to participate in the audit and submit	The week before audit	Sending e-mail before Audit



PDF 1.9 Proposed Timeline

PDF 1.9.1	Contract Signed:
PDF 1.9.2	Start of audit:
PDF 1.9.3	Onsite Audit(s):
PDF 1 9 4	Determination/Decision:

29-11-2018	
04.02.2020	
04 - 05 02 2020	

A Certificate was issued 31-01-2019. Bureau Veritas has performed the certification decision based on the audit report and the review. No information was submitted by stakeholders. The surveillance audit showed that the site is in compliance with 3 minor/1 major nonconformities being raised. The unit of certification has the capability to consistently meet the objectives of the relevant ASC salmon standard - version 1.3. Auditor recommends certification based on the result of the surveillance audit - The certification is upheld.

PDF 1.10 Audit Team

	Column1	Name	ASC Registration Ref
PDF 1.10.1	Lead Auditor	Mohammad Jasour	
PDF 1.10.2	Team member	Megan Konstantinido	u
PDF 1.10.3	Social Auditor	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 AS
1.2 Report Title [e.g. Public Draft Certification Report/ Final certification report/Surveillance report]	04-02-2020 Cermaq Elvevika ASC SA1 FINAL Audit 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: Henrik Rosendahl Kristiansen
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: 11-02-2020
ontents	

2 Table of Contents



3 Glossary

Terms and abbreviations that are specific to this audit report and that are not otherwise defined in the ASC glossary The MOM system (abbreviation in Norwegian for matfiskanlegg - overvåking – modellering) is a statutory system for surveillance and environmental modelling of marine fish farms according to Norwegian Standard 9410:2016.

MOM B investigation aim at assessing the impact of the fish farm on the benthic environment beneath the farm area using grab sampling.

MOM C investigation aim at assessing the impact of the fish farm on the benthic environment from the farm area extending to the transition zone of the recipient's seabed.

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.

NFSA: Norwegian Food Safety Authority.

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

MTB: Maximum Allowed Biomass.

FHP: is Fish Health Plan.

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

IMR: Institute of Marine Research.



4 Summary

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

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

This audit covers all the principles and criteria in ASC salmon standard, Version 1.3 - July 2019. The audit include interview of the farm workers and review of documentation. Audit covering principle 6 was performed by review of relevant documentation, interviews with the quality management and confidential interviews with the employees. The interview was performed without interruption from management. Harvest was not observed at this audit.

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

The unit of certification is the entire Elvevika seafarm, site number 32797. Elvevika is an ongrowing farm for Atlantic Salmon from smolt and until the salmon is ready for slaughtering. The farm is located, Ryggefjorden waterbody in Måsøy municipality in Finnmark County. The production system is based on 6 cages with the size of 120 m. The MTB is 3600 tons.

Type of unit of certification (select only | Single farm, Owned 4.3 one type of unit of certification in the list)

Type of audit (select all the types of audit | Surveillance 1 4.4 that apply in the list)

4.4.1 Number of sites included in the unit of certification Initial audit - 11/2018 Surveillance audit 1 - 02/2020 Surveillance audit 2 - mm/ yyyy Recertification audit - mm/ yyyy

Owned by client		Subcontracted by client
1		0
1		0
N/A	N/A	N/A
N/A	N/A	N/A



4	4.5	A summary of the major findings	3 minor NCs (2.2.1, 2.3.1 and 6.5.6) and 1 major NC (3.1.7) were raised.
4	1.6	The Audit determination	Auditor recommends ongoing certification based on the result of the SA1 audit.
5 CAB Con	ntact Ir	nformation	
5	5.1	CAB Name	Bureau Veritas Certification Denmark
5	5.2	CAB Mailing Address	Oldenborggade 25-31, 7000 Fredericia, Denmark
5	5.3	Email Address	asc.farm@bureauveritas.com
5	5.4	Other Contact Information	www.bureauveritas.dk



6 Background on the Applicant

o backg	round 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)	Elvevika is a conventional floating cage salmon farm. The 6 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/
6.3	Other certifications currently held by the unit of certification	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>curren</u> t year	6000 mt
6.6	Actual annual production volumes of the unit of certification of the <u>previous</u> year (mandatory for surveillance and recertification audits)	2018: 2260 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)	10 permanent employees plus site manager. (Shared employees with another site: Skinnstakkvika)
6.9	Size, and/or number of ponds, pens (if multi site, per site)	6 circular plastic cages 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

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



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

The audit was conducted as document reviews (digital and hard-copy information) as well as interviews including a description of whether the unit of conducted with relevant staff of the site Elevivika in which Salmo salar is grown. Demonstrations of equipment and processes took place, relevant to the scope of the audit, according to the ASC Salmon Standard v1.3. 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. As soon as the fish are harvested the CoC starts.

Description of the receiving water body(ies). 7.5

The farm is located in municipaity of Måsøy, in Finnmark country. Sites receiving water-body is Ryggefjorden. 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: 11-02-2020

Reviewing the report: Henrik Kristiansen - 12-06-2020 Certification decision: Henrik Kristiansen - 12/6-2020

Previous Audits (if applicable): 8.2

8.2.1 Initial audit - 11/2018

> Surveillance audit 1 - 02/2020 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 number	Standard clause reference	Closing deadline - status - closing date of each NC
IA1, IA2, IA3,	2.1.1, 2.1.2,	All NCs closed on 03.12.2018
IA4	2.1.3, 6.9.2	
	2.2.1, 2.3.1,	2.2.1, 6.5.6, 3.1.7 closed 03.03.20.
SA1, SA2,	3.1.7, 5.1.6,	2.3.1 Open. Follow up implemenation at SA2.
SA3, SA4	6.5.6	



8.3 Audit plan as implemented including:

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

Dates	Locations
jan-20	Bureau Veritas Certification, Fredericia, Denmark
04-02-2020	Main office Cermaq Norway AS, Alta, Norway Elvevika site.
NA	No inputs from stakeholders received after submitted audit notifications or in audit process.
NA	Bureau Veritas Certification, Fredericia, Denmark
NA	Bureau Veritas Certification, Fredericia, Denmark
23-06-2020	Bureau Veritas Certification Denmark A/S

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

8.3.6 Final report sent to Client and ASC

Silje Ramsvatn, Sustainability manager Ingunn S. Johnsen, Sustainability coordinator Benedicte Warland, Fish Health Area manager 1 Site managers with 4 employees



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

Name of stakeholder (if permission given to make name public)		Relevance to be contacted	Date of contact	CAB responded Yes/No	Brief summary of points Raised	Use of comment by CAB	Response sent to stakeholder
8.6	initial audit and how they meet conditions in E5.1 i		N/A				
8.6.1	.1 E5.1.ii Justification for auditing site(s) meeting conditions under E5.1.i		N/A				
8.7	E5.1.1.i List of sites removed after the initial audit		N/A				
8.7.1	.7.1 E5.2.2 Reason for the removal of sites from the certificate.		N/A				
8.8	E5.4 Map of sites included in the unit of certification has been attached		N/A				
8.9		allowing period included in the audit Ilance and re-certification audits)	N/A				

Audit report- ASC Salmon Standard v.1.3

Corresponds to Salmon standard v. 1.3

	PRINCIPLE 1: COMPLY WITH ALL APPLICABLE NATIONAL LAWS AND LOCAL REGULATIONS					
		Criterion 1.1 Compliance with all applicable local and national leg				
	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.		Description of NC Provide an explanation of the reason(s) for the classification of any NCs or non- applicability	
		a. Maintain digital or hard copies of applicable land and water use laws.				
1.1.1		b. Maintain original (or legalised copies of) lease agreements, land titles, or concession permit on file as applicable.	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.			
		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).	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 21.05.2012 Discharge permit for 3600 tonn			
	Indicator: Presence of documents demonstrating compliance with local and national regulations and requirements on land and water use Requirement: Yes Applicability: All	d. Obtain permits and maps showing that the farm does not conflict with national preservation areas.	MTB. c) Inspection from Mattilsynet on 22.08.2019. One NC on not reporting lice on week 26/2019. The NC was closed. 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 granted in contravention of adopted conservation measures relating to nature conservation. The county governor (fylkesmannen in Norwegian), who provides aquaculture allowance, is also the authority for conservation areas. The governor don't approve fish farming in protected areas (Verneområder in Norwegian). The Norwegian Environment Agency maintain a map with national salmon fjords (http://lakseregister.fylkesmannen.no/a3_laksekart/Lakseregisteret). The EU maintain biodiversity map: http://natura2000.eea.europa.eu/, but Norway is not in the EU.	Compliant		
	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.				
1.1.2	Requirement: Yes	b. Maintain copies of tax laws for jurisdiction(s) where company operates.	c) Approved operating plan for 2020-2021 from Fisheries Directorate dated	Compliant		
	Applicability: All	c. Register with national or local authorities as an "aquaculture activity".	02.10.2019 with reference number of AR33810591. Discharge permit from Fylkesmannen i Finnmark, date 21.05.2012 Discharge permit for 3600 tonn MTB.			

1.1.3	Indicator: Presence of documents demonstrating compliance with all relevant national and local labor laws and regulations	a. 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	Compliant	Compliant	
1.1.5	Requirement: Yes Applicability: All	b) No inspection from NLA (Arbeidstilsynet) f such inspections are legally required in the country of operation).	Compilant			
		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 21.05.2012 Discharge permit for 3600 tonn MTB.			
		b. Compile list of and comply with all discharge laws or regulations.				
1.1.4	Indicator: Presence of documents demonstrating compliance with regulations and permits concerning water quality impacts Requirement: Yes Applicability: All	c. Maintain records of monitoring and compliance with discharge laws and regulations as required.	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.	Compliant		

PRINCIPLE 2: CONSERVE NATURAL HABITAT, LOCAL BIODIVERSITY AND ECOSYSTEM FUNCTION

Criterion 2.1 Benthic biodiversity and benthic effects [1]

Footnote

Footnote

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

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

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

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

		Note: Under Indicator 2.1.1, farms can choose to measure redox potential (Option #1) or sul meet both threshold values.	phide concentration (Option #2). Farms do not have to demonstrate that they		
		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.	a) Olex map and GPS coordinates with ASC sampling points. Site-specific sampling regime (MOM-C hybrid - ASC adapted). Modified MOM-C according to		
	Indicator: Redox potential or [2] sulphide levels in sediment outside of the Allowable Zone of Effect (AZE) [3], following the sampling methodology outlined in	c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard.	c) Ontion 1 - redox		
2.1.1	Appendix I-1 Requirement: Redox potential > 0 mV or Sulphide ≤ 1,500 μMol/L Applicability: All farms except as noted in [1]	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).		Compliant	>120
		e. For option #1, measure and record redox potential (mV) in sediment samples using an appropriate, nationally or internationally recognized testing method.	e) The results show Redox raning from 120 to 440 mV.		
		f. For option #2, measure and record sulphide concentration (μM) using an appropriate, nationally or internationally recognized testing method.	f) Redox potential. National regulations (NS 9410) g) Will be submitted to ASC		
		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.			
Footnot	2	[2] Farm sites can choose whether to use redox or sulphide. Farms of	lo not have to demonstrate that they meet both.		

[3] Allowable Zone of Effect (AZE) is defined under this standard as 30 meters. For farm sites where a site-specific AZE shall be

	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	Notes: - Under Indicator 2.1.2, farms can choose one of four measurements to show compliance wi (Option #2); BQI (Option #3); or ITI (Option #4). Farms do not have to demonstrate that they - If a farm is exempt due to hard bottom benthos (see 2.1.1b), then 2.1.2 does not apply and	meet all four threshold values.			
		a. Prepare a map showing the AZE (30 m or site specific) and sediment collections stations (see 2.1.1).	a) Olex map and GPS coordinates with ASC sampling points. Site-specific			
		b. Inform the CAB whether the farm chose option #1, #2, #3, or #4 to demonstrate compliance with the requirement.	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			
		c. Collect sediment samples in accordance with Appendix I-1 (see 2.1.1).	(sampling on sea sediments): Akvaplan Niva AS on 06.08.2019 b) #2 Shannon Wiener used			
	Requirement: AZTI Marine Biotic Index (AMBI [5]) score	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)			
	≤ 3.3, or Shannon-Wiener Index score > 3, or Benthic Quality Index (BQI) score ≥ 15, or	e. For option #2, measure, calculate and record Shannon-Wiener Index score of sediment samples using the required method.	d) #2 Shannon Wiener used e) Results show that the Shannon Weinar ranging from 4.51 to 4.98 for the 4	Compliant		>4.51
	Infaunal Trophic Index (ITI) score ≥ 25 Applicability: All farms except as noted in [1]	f. For option #3, measure, calculate and record Benthic Quality Index (BQI) score of sediment samples using the required method.	sampling stations outside AZE. f) Shannon-Wiener Index score used	Compilation		7 1.02
		g. For option #4, measure, calculate and record Infaunal Trophic Index (ITI) score of sediment samples using the required method.	g) Shannon-Wiener Index score used			
		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.	h) 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. i) Will be submitted to ASC			
		i. Submit faunal index scores to ASC (Appendix VI) at least once for each production cycle.				
Footnote	[4] "Good" Ecological Quality Classificati	on: The level of diversity and abundance of invertebrate taxa is slightly outside the range ass	ociated with the type-specific conditions. Most of the sensitive taxa of the type-sp	ecific commu	nities are present.	
Footnote		[5] http://www.azti.es/en/ambi-azti-mar	ine-biotic-index.html.			
		a. Document appropriate sediment sample collection as for 2.1.1a and 2.1.1c, or exemption as per 2.1.1b.	a, b) Olex map and GPS coordinates with ASC sampling points. Site-specific			
	Indicator: Number of macrofaunal taxa in the sediment	b. For sediment samples taken within the AZE, determine abundance and taxonomic composition of macrofauna using an appropriate testing method.	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 accedited company for test 303			
213	within the AZE, following the sampling methodology outlined in Appendix I-1 Requirement: ≥ 2 highly abundant [6] taxa that are not	c. Identify all highly abundant taxa [6] and specify which ones (if any) are pollution indicator species.	(sampling on sea sediments): Akvaplan Niva AS on 06.08.2019 c) Results show that the non polluter indicator species are compliant with having more than 10 species	Compliant		>10
	pollution indicator species Applicability: All farms except as noted in [1]	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.	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. Submit counts of macrofaunal taxa to ASC (Appendix VI) at least once for each production cycle.	e) Will be submitted to ASC			
Footnote		[6] Highly abundant: Greater than 100 organisms per square meter (or equally high	to reference site(s) if natural abundance is lower than this level).			

	Indicator: Definition of a site-specific AZE based on a robust and credible modelling system Requirement: Yes Applicability: All farms except as noted in [1]	a. Undertake an analysis to determine the site-specific AZE and depositional pattern.	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 accedited company for test 303 (sampling on sea sediments)	Compliant		
2.1.4		lb. Maintain maganda ta abayy bayy tha amalysis /in 2 1 4a) is malayst and smadible based an				
		c. Maintain records to show that modeling results for the site-specific AZE have been verified with > 6 months of monitoring data.				
Footnote	[7] Robust and credible: The SEPA AUTODEPOMO	D modeling system is considered to be an example of a credible and robust system. The mode	I must include a multi-parameter approach. Monitoring must be used to ground-t	ruth the AZE p	roposed through the m	nodel.

		Criterion 2.2 Water quality in and near the site of				
Footnote		Compliance Criteria (Required Client Actions): [8] See Appendix VI for transparency requirements	Auditor Evaluation (Required CAB Actions):			
2.2.1	Indicator: Weekly average percent saturation [9] of dissolved oxygen (DO) [10] on farm, calculated following methodology in Appendix I-4	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 method are as follows: - measurements may be taken with a handheld oxygen meter or equivalent chemical methodology equipment is calibrated according to manufacturer's recommendations; - measurements are taken at least twice daily: once in the morning (6 -9 am) and once in the salinity and temperature must also be measured when DO is sampled; - sampling should be done at 5 meters depth in water conditions that would be experienced each week, all DO measurements are used in the calculation of a weekly average percent so the monitoring deviates from prescribed sampling methodology, the farm shall provide the authorized methodology. In the calculation of	rerage weekly percent saturation of dissolved oxygen (DO). Key points of the od; e afternoon (3-6 pm) as appropriate for the location and season; by fish (e.g. at the downstream edge of a net pen array): aturation. ditor with a written justification (e.g. when samples are missed due to bad eduction of DO monitoring frequency to one sample per day. ge saturation requirement, the farm must demonstrate the consistency of a the edge of the net pen array, in a location that is understood to follow similar or			
		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			
		b. Provide a written justification for any missed samples or deviations in sampling time.	stations at cages (additional reference station at barge). b) Week 1, 2, 3/2020 is missing			
		c. Calculate weekly average percent saturation based on data.	c) Seen record for the period week 43/2019 til week 52/2019 for the current generation		The DO data for week 1, 2, 3/2020 is missing. However,	Data presented by the
		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) Week 43 til 45 in 2019 were below 70%, due to technical problem of the oxygen meter.		the DO for week 43- 45 in 2019 were lower than ASC	contact peron at Cermaq
		e. Arrange for auditor to witness DO monitoring and calibration while on site.	e) Monitoring of oxygen and calibration routines verified on site. Good knowledge, instructions from equipment producer available. f) Will be submitted to ASC		requirement, 70%.	
		f. Submit results from monitoring of average weekly DO as per Appendix VI to ASC at least once per year.				
Footnote	[9] Percent sa	turation: Percent saturation is the amount of oxygen dissolved in the water sample compare	d to the maximum amount that could be present at the same temperature and sa	linity.		
Footnote		[10] Averaged weekly from two daily measuremen	ts (proposed at 6 am and 3 pm).			
Footnote		[11] An exception to this standard shall be made for farms that can demonstrate	te consistency 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 the limit b) Will be submitted to ASC	Compliant		
	Indicator: For jurisdictions that have national or regional coastal water quality targets [12], demonstration through third-party analysis that the farm is in an area recently [13] classified as having "good" or "very good" water quality [14] Requirement: Yes [15]	a. Inform the CAB whether relevant targets and classification systems are applicable in the jurisdiction. If applicable, proceed to "2.2.3.b". If not applicable, take action as required under 2.2.4	a-c) EU Water Directive 2000 gives Water quality objectives for area Ryggefjord (ref. "vannportalen.no). Troms og Finnmark Fylkeskommune authority, Måsøy muncipility") ecological conditions good -chemical condition good			
2.2.3		b. Compile a summary of relevant national or regional water quality targets and classifications, identifying the third-party responsible for the analysis and classification.		Compliant		
	Applicability: All farms except as noted in [15]	c. Identify the most recent classification of water quality for the area in which the farm operates.				
Footnote		[12] Related to nutrients (e.g., N, P,	, chlorophyll A).			
Footnote		[13] Within the two years prior	to the audit.			
Footnote	[14] Classification	ns of "good" and "very good" are used in the EU Water Framework Directive. Equivalent classi	ification from other water quality monitoring systems in other jurisdictions are acc	ceptable.		
Footnote	[15] Closed production systems that can demonstrate the collection and responsible disposal of > 75% of solid nutrients as well as > 50% of dissolved nutrients (through biofiltration, settling and/or other technologies) are exempt from standards 2.2.3 and 2.2.4.					
roothote	[15] Closed production systems that can demo	nstrate the collection and responsible disposal of > 75% of solid nutrients as well as > 50% of	dissolved nutrients (through biofiltration, settling and/or other technologies) are e	exempt from st	tandards 2.2.3 and 2.2.4.	
routilite	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	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.		exempt from st	tandards 2.2.3 and 2.2.4.	
2.2.4	Indicator: For jurisdictions without national or regional coastal water quality targets, evidence of monitoring of	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	dissolved nutrients (through biofiltration, settling and/or other technologies) are e	exempt from st	tandards 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.			tandards 2.2.3 and 2.2.4.	

2.2.5	Indicator: Demonstration of calculation of biochemical	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 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 suc refers to harvested fish. In this case, farm must submit breakdown of N & C captured/filtered • Reference for calculation methodology: Boyd C. 2009. Estimating mechanical aeration red the World Aquaculture Society Meeting; Sept 25-29, 2009; VeraCruz, Mexico. And: Global Acc 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 the client is required to demonstrate to the CAB that data is being collected and an understal Note 2: Farms may seek an exemption to Indicator 2.2.5 if: the farm collects BOD samples at accredited laboratory, and the farm can show that BOD monitoring results do not deviate sign	h as IMTA or through direct collection of nutrient wasted. In this equation, "fish" d/absorbed to ASC along with method used to estimate nutrient reduction. equirement in shrimp ponds from the oxygen demand of feed. In: Proceedings of luaculture Performance Index BOD calculation methodology available at e production cycle first undergoing certification. If it is the first audit for the farm, nding of the calculations.			
	Applicability: All	a. Collect data throughout the course of the production cycle and calculate BOD according to formula in the instruction box. b. Submit calculated BOD as per Appendix VI to ASC for each production cycle.	a) Data is collected and calculations is done. BOD calculated to -125.05 kg for current cycle. Current production is on going. Final BOD will be calculated after the harvest. BOD for the current G= ((total N in feed: 10.98 – total N in fish: 8.85)*4.57) + ((total C in feed: 97.02 – total C in fish: 147.50)*2.67)= -125.05 BOD for last G18: ((total N in feed: 152.18 – total N in fish: 65.31)*4.57) + ((total C in feed: 1369.60 – total C in fish: 1088.49)*2.67)= 1147.55 b) Will be submitted to ASC	Compliant		
Footnote		4.57) + ((total C in feed – total C in fish)*2.67). A farm may deduct N or C that is captured, filtery: Boyd C. 2009. Estimating mechanical aeration requirement in shrimp ponds from the oxygeton Aquaculture Performance Index BOD calculation methodology available	n demand of feed. In: Proceedings of the World Aquaculture Society Meeting; Sep			
2.2.6	Indicator: Appropriate controls are in place that maintain good culture and hygienic conditions on the farm which extends to all chemicals, including veterinary drugs, thereby ensuring that adverse impacts on environmental quality are minimised.	a. Document control systems in good culture and hygene that includes all appropriate elements. b. Apply the systems ensuring that staff are aware, qualified and trained to proberly implement them.	a) Procedure "Hygienereglement - Matfisk" ID 127, Prosedure "Prosedyre for oppbevaring håndtering av kjemikalier og gasser", ID 473. b) There is an annual hygiene training for staff. Last HSE training was on 22.03.2019.	Compliant		
2.2.6	Indicator: Appropriate controls are in place that maintain good culture and hygienic conditions on the farm which extends to all chemicals, including veterinary drugs, thereby ensuring that adverse impacts on environmental quality are minimised. Requirement: Yes	a. Document control systems in good culture and hygene that includes all appropriate elements. b. Apply the systems ensuring that staff are aware, qualified and trained to proberly	a) Procedure "Hygienereglement - Matfisk" ID 127, Prosedure "Prosedyre for oppbevaring håndtering av kjemikalier og gasser", ID 473. b) There is an annual hygiene training for staff. Last HSE training was on	Compliar	nt	nt

			Criterion 2.3 Nutrient release from prod	luction				
			Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):				
			Note: The methodology given in Appendix I-2 is used to determine t	he fines (dust and small fragments) in finished product of fish feed which has a dia	nmeter of 3 m	m or more.		
		Indicator: Percentage of fines [18] in the feed at point of entry to the farm [20] (calculated following methodology in Appendix I-2) Requirement: < 1% by weight of the feed Applicability: All farms except as noted in [19]	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 are not meeting the ASC requirements. From 03.08.2019 til now the values are above 1%. Monthly testing according to internal QMS Intelex procedure "Prosedyre fôrmottak og lagring" ID 260 b) Appropriate testing technology (sieving machine) as per ASC.		Percentage of fines are not meeting the ASC requirements. From 03.08.2019 til	Data	
	2.3.1		 b. If using a sieving machine, calibrate equipment according to manufacturer's recommendations. 		Minor	now the values are above 1%. The procedure was not followed to communicate with	presented by Cermaq and interview with the site	
			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.	l		the feed suppliers when the values are higher than the requirements.	manager	
ı	Footnote	[18] Fines: Dust and fragments in the feed. Particles that separate from feed with a diameter of 5 mm or less when sieved through a 1 mm sieve, or particles that separate from feed with a diameter greater than 5 mm when sieved through a 2.36 mm sieve. To be measured at farm gate (e.g., from feed bags after they are delivered to farm).						
ſ	Footnote	ote [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 ha	bitats and species		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
		Note: If a farm has previously undertaken an independent assessment of biodiversity impa with Indicator 2.4.1 as	act (e.g. as part of the regulatory permitting process), the farm may use such doculong as all components in Appendix I-3 are explicitly covered.	ments as evidence to demonstrat	te compliance
		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.	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 performed for 2018." Procedure "Særskilt om ytre miljø og vedlegg til riskovurdering" ID 387		
		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.			
		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.	Marginal impacts only. Ref also license permit and assessment as part of the regulatory permitting process. Site has risk assessment for environmental impact with developed actions for potential environmental and biodiversity risks from site. Additional RA "Biodiversitetsfokusert risikovurdering for Vargsundet og Korsfjorden", dated 30.07.2019 including action plan for 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		

		Instruction to Clients for Indicator 2.4.2 - Exceptions to Requirements that Farms are not so The following exceptions shall be made for Indicator 2.4.2: Exception #1: For protected areas classified by the International Union for the Conservation their landscapes or for sustainable resource management). Exception #2: For HCVAs if the farm can demonstrate that its environmental impacts are conformal of the proof would be placed on the farm to demonstrate that it is not negatively impacting the	of Nature (IUCN) as Category V or VI (these are areas preserved primarily for npatible with the conservation objectives of the HCVA designation. The burden core reason an area has been identified as a HCVA.				
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]	Exception #3: For farms located in a protected area if it was designated as such after the farm was already in operation and provided the farm can demonstrate that its environmental impacts are compatible with the conservation objectives of the protected area and it is in compliance with any relevant conditions or regulations placed on the farm as a result of the formation/designation of the protected area. The burden of proof would be placed on the farm to demonstrate that it is not negatively impacting the core reason an area has been protected. Definitions Protected area: "A clearly defined geographical space, recognized, dedicated and managed through legal or other effective means, to achieve the long-term conservation of nature with associated ecosystem services and cultural values." High Conservation Value Areas (HCVA): Natural habitats where conservation values are considered to be of outstanding significance or critical importance. HCVA are designated through a multi-stakeholder approach that provides a systematic basis for identifying critical conservation values—both social and environmental—and for planning ecosystem management in order to ensure that these high conservation values are maintained or enhanced					
	Applicability: All farms except as noted in [22]	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) 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				
		b. If the farm is <u>not</u> sited in a protected area or High Conservation Value Area as defined above, prepare a declaration attesting to this fact. In this case, the requirements of 2.4.2c-d do not apply.					
		c. If the farm <u>is</u> sited in a protected area or HCVA, review the scope of applicability of Indicator 2.4.2 (see Instructions above) to determine if your farm is allowed an exception to the requirements. If yes, inform the CAB which exception (#1, #2, or #3) is allowed and provide supporting evidence.		Compliant			
		d. If the farm is sited in a protected area or HCVA and the exceptions provided for Indicator 2.4.2 do not apply, then the farm does not comply with the requirement and is ineligible for ASC certification.	d) NA				
Footi	[20] Protected area: "A clearly defined geographical s	pace, recognized, dedicated and managed through legal or other effective means, to achieve t Guidelines for Applying Protected Area Management Catego		ural values." So	ource: Dudley, N. (Edito	r) (2008),	
Footi	10fe I	habitats where conservation values are considered to be of outstanding significance or critical both social and environmental—and for planning ecosystem management in order to ensure				g critical	
Footi	[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). • For HCVAs if the farm can demonstrate that its environmental impacts are compatible with the conservation objectives of the HCVA designation. The burden of proof would be placed on the farm to demonstrate that it is not negatively impacting the core reason an area has been identified as a HCVA. • For farms located in a protected area if it was designated as such after the farm was already in operation and provided the farm can demonstrate that its environmental impacts are compatible with the conservation objectives of the protected area and it is in compliance with any relevant conditions or regulations placed on the farm as a result of the formation/designation of the protected area. The burden of proof would be placed on the farm to demonstrate that it is not negatively impacting the core reason an area has been protected.						

		Criterion 2.5 Interaction with wildlife, including	Auditor Evaluation (Required CAB Actions):	T	
aatnata		Compliance Criteria (Required Client Actions): [23] See Appendix VI for transparency requirements			
ootnote		[23] See Appendix VI for transparency requireme	ents for 2.5.2, 2.5.5 and 2.5.6.		
2.5.1	Indicator: Number of days in the production cycle when acoustic deterrent devices (ADDs) or acoustic harassment devices (AHDs) were used Requirement: 0 Applicability: All		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	
	Applicability. All	-			
		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) Nest on the cages are only devices used by the farm to control birds. b) The predators incidents are recorded by the farm empolyess. 1 seagull		
252	red-listed [26] marine mammals or birds on the farm Requirement: 0 (zero)	c. Maintain a record of all mortalities of marine mammals and birds on the farm identifying the species, date, and apparent cause of death.	c) No mortality of endangered or red-listed marine mammals and birds in the farm. Internal records checked.	Compliant	C
		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		
ootnote		[25] Mortalities: Includes animals intentionally killed through lethal action as wel	l as accidental deaths through entanglement or other means.		
ootnote		[26] Species listed as endangered or critically endangered by the	IUCN or on a national endangered species list.		
	Indicator: Evidence that the following steps were taken prior to lethal action [27] against a predator: 1. All other avenues were pursued prior to using lethal action	a. Provide a list of all lethal actions that the farm took against predators during the previous 12-month period. Note: "lethal action" is an action taken to deliberately kill an animal, including marine mammals and birds.			
2.5.3	2. Approval was given from a senior manager above the	 b. For each lethal action identified in 2.5.4a, keep record of the following: 1) a rationale showing how the farm pursued all other reasonable avenues prior to using lethal action; 2) approval from a senior manager above the farm manager of the lethal action; 3) where applicable, explicit permission was granted by the relevant regulatory authority to take lethal action against the animal. 	a) No lethal actions taken at farm. Internal records checked. There is a procedure "Prosedyre for samspill med dyr og fugler 395" in place. b, c) NA	Compliant	
	Applicability: All except cases where human safety is	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].			
ootnote		[27] Lethal action: Action taken to deliberately kill an anima	al, including marine mammals and birds.		
ootnote	[28] Exception to these conditions	may be made for a rare situation where human safety is endangered. Should this be required	d, post-incident approval from a senior manager should be made and relevant aut	horities must be in	formed.

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

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

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

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

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

	Indicator: Evidence that information about any lethal incidents [30] on the farm has been made easily publicly	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	available [29]	a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence.	a, 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	results on a public website is an example of "easily publicly available." Shall be made availab	le within 30 days of the incident and see Appendix VI for transparency requiremen	nts.		
	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	a. Maintain log of lethal incidents (see 2.5.3a) for a minimum of two years. For first audit, >6 months of data are required.	a, b) List on https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq-norway/baerekraft/asc-rapportering/; showing one lethal incidents of entangled common sea gull. c) Will be submitted to ASC	Compliant		
		b. Calculate the total number of lethal incidents and the number of incidents involving marine mammals during the previous two year period.			1	
		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).				1
Footnote		[30] Lethal incident: Includes all lethal actions as well as entanglement	s or other accidental mortalities of non-salmonids.			
Footnote		[31] Standard 2.5.6 applicable to incidents related to non-endangered and non-red-listed	species. This standard complements, and does not contradict, 2.5.3.			
	an assessment of the risk of lethal includings, has been	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.	ent and how those risk assessments are used to identify concrete steps the farm duce the risk of future incidents. a) No lethal incident. There is a risk assessment for Storholmen/Olderfjord "Ytre miljø- utlsipp", dt. 15.04.2018 b) NA documentary evidence that the farm implements those steps identified in 2.5.6a			
2.5.6	Requirement: Yes Applicability: All	b. Provide documentary evidence that the farm implements those steps identified in 2.5.6a to reduce the risk of future lethal incidents.		Compliant		

		PRINCIPLE 3: PROTECT THE HEALTH AND GENETIC INTEGRI	ITY OF WILD POPULATIONS		
		Criterion 3.1 Introduced or amplified parasites and		,	
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
Footnote	[32] Farm	sites for which there is no release of water that may contain pathogens into the natural (fres	shwater or marine) environment are exempt from the standards under Criterion 3.	.1.	
Footnote		[33] See Appendix VI for transparency requirements fo	or 3.1.1, 3.1.3, 3.1.4, 3.1.6 and 3.1.7.		
According to footnote [32], farm sites for which there is no release of water that may contain pathogens into the natural (freshwater or marine) environment are exempt from the requirements under Criterion 3.1. More specifically, farms are only eligible for exemption from Criterion 3.1 if it can be shown that either of the following holds: 1) the farm does not release any water to the natural environment; or 2) any effluent released by the farm to the natural environment has been effectively treated to kill pathogens (e.g. UV and/or chemical treatment of water with testing demonstrating efficacy). Auditors shall fully document the rationale for any such exemptions in the audit report.					
3.1.1	Indicator: Participation in an Area-Based Management (ABM) scheme for managing disease and resistance to treatments that includes coordination of stocking, fallowing, therapeutic treatments and information-sharing. Detailed requirements are in Appendix II-1. Requirement: Yes Applicability: All except farms that release no water as noted in [32]	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. 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. d. Submit dates of fallowing period(s) as per Appendix VI to ASC at least once per year.	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. Documentation of "Samarbeidsavtale subregion Helgeland 2019-2020" for following companies Grieg Seafood Finnmark AS, NRS, Cermaq Norway AS, Lerøy Aurora, Salmar Farming AS. Åkerblå AS, external fish 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	Compliant	

		Note: Indicator 3.1.2 requires that farms demonstrate a commitment to collaborate with NG measure possible impacts on wild stocks. If the farm does not receive any requests to collaborate showing evidence of commitment through other proactive means such as published policy st	orate on such research projects, the farm may demonstrate compliance by			
		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.	la) Cananaitan ant and marticipation of Cananan Namura, AC is decomposed in			
	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]	 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. 				
3.1.2		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.				
		lease no water as	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.	Compliant		
		show that the farm has supported the research activities identified in 3.1.2a.	c) Cermaq is part of a reasearch network called Kompetanse-Klynge Laks (https://kompetanseklyngelaks.no/prosjekter/). Applications are recived and evaluated through the team of Kompetanse-Klynge Laks. No rejection without justification is made. d) E.g.documents available in projectreport NINA nr. 1307 "Monitoring Altaelva og Repparfjordelva 2016". e.g communication and electronic project folders			
			e.g. projectmail for AquaDom to NOFIMA dt.11.11.14 and aggrements as described in 3.1.2.a			
Footnote	[34] Commitment: At a minimum, a farm an	d/or its operating company must demonstrate this commitment through providing farm-level	data to researchers, granting researchers access to sites, or other similar non-fina	incial support	for research 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 "lusedata.no" 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 Applicability: All except farms that release no water as noted in [32]	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. 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.	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 c-e) All lice results are available to public on https://www.barentswatch.no/fiskehelse f) Will be submitted to ASC	Compliant		
Footnote	[35] Testing must be weekly during and immediately prior to sensitive periods for wild salmonids, such as outmigration of wild juvenile salmon. Testing must be at least monthly during the rest of the year, unless water temperature is so cold that it would jeopardize farmed fish health to test for lice (below 4 degrees C). Within closed production systems, alternative methods for monitoring sea lice, such as video monitoring, may be used.					
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	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 word all, jurisdictions with wild salmonids. The information is likely to come from government conducting this research themselves. However farms must demonstrate that they are award management decisions related to minimizing potential impact on those wild stocks. This Indicator requires collection and understanding of general data for the major watershed that there is data for every small river or tributary or subpopulation. Information should relationated from other stocks of the same species and hence self-sustaining. A "conservation ustock-level definition. However, it must be recognized that each jurisdiction may have slight. For purposes of these standards, "areas with wild salmonids" are defined as areas within 75 expected to encompass all, or nearly all, of salmon-growing areas in the northern hemispheterout species). Where a species is not natural to a region (e.g. Atlantic or Pacific Salmon in Clause escaped from farms and established themselves as a reproducing species in "the wild" Farms do not need to conduct research on migration routes, timing and the health of wild st demonstrate an understanding of this information at the general level for salmonid population decisions related to minimizing potential impact on those stocks. Such "evidence" would committed and reporting.	wild salmonid health and migration are publicly available in the vast majority of, if a sources or from research institutions. Therefore farms are not responsible for e of this basic information in their region, as such information is needed to make discussional di			
	salmonids except farms that release no water as noted in [32]	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. 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. 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.	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" (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. 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 Cermaq staff	Compliant		
Footnote	[37] For purposes of these standards, "areas with	wild salmonids" are defined as areas within 75 kilometers of a wild salmonid migration route	e or habitat. This definition is expected to encompass all, or nearly all, of salmon-gr	owing areas in	the northern hemispher	re.
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 alre region, as such information is needed to make management decisions re		ne general leve	l for salmonid population	ns in their

3.1.7 Requirements in Appendix II, subsection 2. Requirement: 0.1 mature female lice per farmed fish periods as per Appendix II-2. C) Weekly testing form predetermined cages, according NFSA regulations. Sealice lifestage identified and recorded. (in aquafarmer and excel sheet for submittance to NSA via Altinn) The level of lice exceeded the limit during the sensitive period in 2019. C) Weekly testing form predetermined cages, according NFSA regulations. Sealice lifestage identified and recorded. (in aquafarmer and excel sheet for submittance to NSA via Altinn) The level of lice exceeded the limit during the sensitive period in 2019.	3.1.6	Indicator: In areas of wild salmonids, monitoring of sea lice levels on wild out-migrating salmon juveniles or on 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 [32]	a. Inform the CAB if the farm operates in an area of wild salmonids. If not, then Indicator 3.1.6 does not apply. b. Keep records to show the farm participates in monitoring of sea lice on wild salmonids. 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. 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.	a) Salmonides, ex. S salar, S. trouta, S.etc. naturally occurring in the area. b) It is a breach of Norwegian regulations for the applicant to conduct sea lice counts in wild salmonids. However, according to VR 136 it is accepted that the farm may contribut to governmental monitoring if the program is geographically relevant. c) IMR/NINA/NOFIMA/VI - Risk Assessment for Norway, fish farming report 2018, where sealice issues are covered. IMR report on wild stock sealice sitaution "lakselusinfeksjon på vill laksefisk langs norskekysten i 2018. and IMR/vet Institute report on measuring environmental effects on wild salmon. Vitenskapsrådet yearly reports on salmon river managment d) Report published and generally available. Govermental reports publicly available e) It is a breach of Norwegian regulations for the applicant to conduct sea lice counts in wild salmonids. However, according to VR 136 it is accepted that the farm may contribut to governmental monitoring if the program is geographically relevant. Public reports regarding this issue is easily publicly available.	Compliant		
Requirement: 0.1 mature female lice per farmed fish Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in [32] C. Maintain detailed records of monitoring on-farm lice levels (see 3.1.4) during sensitive period in 2019. Sealice lifestage identified and recorded. (in aquafarmer and excel sheet for submittance to NSA via Altinn) The level of lice exceeded the limit during the sensitive period in 2019. Major Major C. Maintain detailed records of monitoring on-farm lice levels (see 3.1.4) during sensitive period in 2019. Sealice lifestage identified and recorded. (in aquafarmer and excel sheet for submittance to NSA via Altinn) The level of lice exceeded the limit during the sensitive period in 2019. d) Institute of Marine Research (IMR) manage surveillance of sea lice level on wild salmonids (https://www.imr.no/enIMR), and on that basis the strategic plan is defined by the relevant authorities and the ABM to be followed.		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.	 3.1.7 does not apply. 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.			
	3.1.7	Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in [32]	periods as per Appendix II-2. d. Provide the CAB with evidence there is a 'feedback loop' between the targets for on-	Sealice lifestage identified and recorded. (in aquafarmer and excel sheet for submittance to NSA via Altinn) The level of lice exceeded the limit during the sensitive period in 2019. d) Institute of Marine Research (IMR) manage surveillance of sea lice level on wild salmonids (https://www.imr.no/enIMR), and on that basis the strategic		the limit during the sensitive period in	

		Criterion 3.2 Introduction of non-native s	pecies			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
		Note: For the purposes of Indicator 3.2.1, "area" is defined as a contiguous body of water wit species' life and reproduction (e.g. the Northern Atlantic Coast of the U.S. and Canada). Appe should be defined, taking into account the zone in which key cumulative impacts on wild populative and function." The intent is that the area relates to the spatial extent that is likely to the boundaries of countries.	ndix II-1A elaborates further on this definition: "The boundaries of an area ulations may occur, water movement and other relevant aspects of ecosystem			
	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]	a. Inform the CAB if the farm produces a non-native species. If not, then Indicator 3.2.1 does not apply.				
		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.	NA	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 t	hat use 100 percent sterile fish or systems that demonstrate separation from the wild by effect might survive and subsequently		of reared spec	cimens or biological material	that

	Indicator: If a non-native species is being produced,	Instruction to Clients for Indicator 3.2.2 - Exceptions to Allow Production of Non-Native Special Farms have had five years to demonstrate compliance with this standard from the time of pur Farms are exempt from this standard if they are in a jurisdiction where the non-native special three conditions are met: eradication would be impossible or have detrimental environmental 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	ablication of the ASC Salmon Standard (i.e. full compliance by June 13, 2017). It is became established prior to farming activities in the area and the following all effects; the introduction took place prior to 1993 (when the Convention on			
	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	search [41] completed within the stigates the risk of establishment a. Inform the ASC of the species in production (Appendix VI).				
3.2.2	results submitted to ASC for review [42] Requirement: Yes	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).	NA	N/A		
		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.	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 spe	ecies, use credible methodologies and analysis, and undergo peer review.			
Footnote		ne ASC will consider prohibiting the certification of farming of non-native salmon in that jurisd farming of non-native salmon in that jurisdiction. The ASC intends to bring this evidence into f			pects that the ASC will p	orohibit the
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 introduction took place prior to 1993 (when the Convention on Biological Diver		le or have detr	imental environmental	effects; the
		a. Inform the CAB if the farm uses fish (e.g. cleaner fish or wrasse) for the control of sea lice.				
	Indicator: Use of non-native species for sea lice control for on-farm management purposes	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.	a, b, c) No cleaning fish is used at the site during the current production cycle			
	Requirement: None Applicability: All	c. Collect documentary evidence or first hand accounts as evidence that the species used is not non-native to the region.		Compliant		

		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 for salmon group available in invoices and fish/ova CV.	Compliant	
	Applicability: All	c. Ensure purchase documents confirm that the culture stock is not transgenic.	Norwegian law forbids genetically modifications on salmon roe for use in farming industry. Source: The Norwegian Gene Technology Act (Genteknologiloven) (LOV-1993-04-02-38).		
	[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				
		Criterion 3.4 Escapes [47]			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
Footnote		[45] See Appendix VI for transparency requireme	ents for 3.4.1, 3.4.2 and 3.4.3.		
	Indicator: Maximum number of escapees [46] in the most recent production cycle Requirement: 300 [47] Applicability: All farms except as noted in [47]	a. Maintain monitoring records of all incidences of confirmed or suspected escapes, specifying date, cause, and estimated number of escapees.			
		b. Aggregate cumulative escapes in the most recent production cycle.	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.		
		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]).	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.		
3.4.1		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.	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.	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 a	aggregate number of escapees per production cycle must be less than 300 fish. Data on date	of escape episode(s), number of fish escaped and cause of escape episode shall be	reported as outlined in	n Appendix VI.
Footnote		an escape event that is clearly documented as being outside the farm's control. Only one such th the farm is applying for certification. The farmer must demonstrate that there was no reas			starts at the beginning of

3.4.2 Footnote	counting method used for calculating stocking and harvest numbers Requirement: ≥ 98% Applicability: All	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). [48] Accuracy shall be determined by the spec sheet for counting machines and Instruction to Clients for Indicator 3.4.3 - Calculation of Estimated Unexplained Loss The Estimated Unexplained Loss (EUL) of fish is calculated at the end of each production cycle EUL = (stocking count) - (harvest count) - (mortalities) - (recorded escapes) Units for input variables are number of fish (i.e. counts) per production cycle. Where possible formula is adapted from footnote 59 of the ASC Salmon Standard.	c) Equipment used according to requrements when stocking and any grading spiltting/counting operations are performed by weelboat on site. No counting machines were used on site during the audit. d) Statement from Wingtech and Aquascan of 98-100% accuracy. e) Will be submitted to ASC and through common estimates of error for any hand-counts. ycle as follows:	Compliant	ompliant	
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 1.2% for last generation harvested in 2018 EUL for 2018 G= (stocking count: 841869) - (harvest count: 533361) - (mortalities: 318614) - (recorded escapes: 0) = 10,190 (1.2&) EUL for the current G will be calculated after harvest. c) System implemented to make EUL value information easily publicaly 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		10190

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	a. Prepare an Escape Prevention Plan and submit it to the CAB before the first audit. This plan may be part of a more comprehensive farm planning document as long as it addresses all required elements of Indicator 3.4.4. b. If the farm operates an open (net pen) system, ensure the plan (3.4.4a) covers the following areas:	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 19.06.2019). Furthermore there was a risk assessment for escapes, d.t 25.04.2019, including relevant issues related to	Compliant	
		e. Train staff on escape prevention planning as per the farm's plan.	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 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 employees in 2019 was on 15-08-2019 and for 2020 was on 23-01-2020		

	Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
r intervals by an independent auditing firm or a conformity asses that have been acknowledged by the ASC (see 4.1.1c below g forward accurate information about their production and supow that all of their feed producers are duly informed of the rection to the above, farms must also show that their feed supplifarms to use one of two different methods to demonstrate code #1: Farms may choose to source feed from feed producers we a batch of feed according to farm specifications. Audits of the d #2: Farms may choose to source feed from feed producers we seed production period meets ASC requirements. However, misses are in compliance with ASC requirements. The mass balance of feed, and sales) under the management of a single legal entity the term "feed producer" is used here to identify the organization that produced the feed, but there may be instances where	repliance with the requirements of Indicators 4.1.1 through 4.4.4. To do so, farms must obtain the resemble against a recognized standard which substantially incorporate requirements for the sessment body against a recognized standard which substantially incorporate requirements for the session of the ses	traceability. Acceptable certification schemes include GlobalGAP or other stems and information handling processes to allow the feed producers to be able a compliance with these indicators must be supported by the audits. Farms must seed (see 4.1.1b below). The specified under indicators 4.1.1 through 4.4.2. The ASC Salmon Standard on of a given batch of feed. For example, the farm may request its feed supplier to the ASC requirements. Show that the balance of all ingredients (both amount and type) used during a Audits of the feed producer will independently verify that manufacturing all steps of feed manufacturing (purchasing of raw materials, processing to exation supplying feed to a farm (i.e. the feed supplier) will be the same		
Indicator: Evidence of traceability, demonstrated by the feed producer, of feed ingredients that make up more than 1% of the feed [50]. Requirement: Yes Applicability: All	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 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 recently done by an audit firm or CAB against an ASC-acknowledged certification scheme. Obtain a copy of the most recent audit report for each feed producer. d. For each feed producer, determine whether the farm will use method #1 or method #2 (see Instructions above) to show compliance of feed producers. Inform the CAB in writing. e. Obtain declaration from feed supplier(s) stating that the company can assure traceability of all feed ingredients that make up more than 1% of the feed to a level of detail required by the ASC Salmon Standard [50].	a) Feed suppliers for current G: BIOMAR (www.biomar.com) Last G: EWOS (www.cargill.com) Records of purchase for current G: 180000 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. Certifcate GGN CoC 4050373825744, valid to 24.06.2020 BIOMAR: Audited by BV GG CFM dt 2018-07-06, Global G.A.P Certifcate GGN CoC 4050373810030, valid to 20/12/2019 A copy of the most recent GG audit reports was verified. d) Method #2 Massbalance e) Statement from Cargill/EWOS on complete traceability dated 03.01.2019 Statement from Biomar on complete traceability dated 14.01.2019 f) Statement and certificate for feed supplier verified.	Compliant	

		Criterion 4.2 Use of wild fish for feed Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):	Г	
Footnote		[51] See Appendix VI for transparency requir	rements for 4.2.1 and 4.2.2.		
		Farms must calculate the Fishmeal Forage Fish Dependency Ration (FFDRm) according to have maintained sufficient information in order to make an accurate calculation of FFDR production cycle (i.e. if the FFDRm of the most		th Indicator 4.2 hat: on cycle; 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. c. Calculate eFCR using formula in Appendix IV-1 (use this calculation also in 4.2.2 option #1). 	 a, b) Detailed information on the feed composition was seen. For example: Total feef used for 18G: 2536 mt Fish meal from forage fishes: 8.2% b) Trimmings are excluded in the calculations. c) eFCR: Feed used (2536)/ Net aquacultural production harvested (2163)= 1.17 d) For 18G: FFDRm: (% fishmeal in feed from forage fisheries: 8.2) x (eFCR: 1.17)/24= 0.4 	Compliant	0.4
		d. Calculate FFDRm using formulas in Appendix IV-1. e. Submit FFDRm to ASC as per Appendix VI for each production cycle.	e) Will be submitted to ASC		
		Note: Under Indicator 4.2.2, farms can choose to calculate FFDRo (Option #1) or EPA & DHA values. Client shall inform the CAB which option they will use.	A (Option #2). Farms do not have to demonstrate that they meet both threshold		
	Indicator: Fish Oil Forage Fish Dependency Ratio (FFDRo) for grow-out (calculated using formulas in Appendix IV- 1), or,	 a. Maintain a detailed inventory of the feed used as specified in 4.2.1a. b. For FFDRo and EPA+DHA calculations (either option #1 or option #2), exclude fish oil derived from rendering of seafood by-products (e.g. the "trimmings" from a human consumption fishery. 	a) See 4.2.1.a b) for 18G: Fish oil from forage fishes: 8.5% (6.7% from South America, and 1.8% from		
4.2.2	Maximum amount of EPA and DHA from direct marine sources [52] (calculated according to Appendix IV-2) Requirement: FFDRo < 2.52	c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard.	North Atlantic) Trimmings are excluded in the calculations. c) Option #1.	Compliant	1.99
	or (EPA + DHA) < 30 g/kg feed	d. For option #1, calculate FFDRo using formulas in Appendix IV-1 and using the eFCR calculated under 4.2.1c.	d) For 2018G: FFDRo: (% Fishoil in feed from forage fisheries)x (eFCR:1.17)/5.0 or 7.0, depending on source of fish = 1.99		
	Applicability: All	e. For option #2, calculate amount of EPA + DHA using formulas in Appendix IV-2.	e) N/A.		
		f. Submit FFDRo or EPA & DHA to ASC as per Appendix VI for each production cycle.	f) Will be submitted to ASC		
Footnote		heries by-products and trimmings. Trimmings are defined as by-products when fish are proce does not meet official regulations with regard to fish immings can be excluded from the calculation as long as the origin of the trimmings is not an (http://www.iucnredlist	h suitable for human consumption. By species that are classified as critically endangered, endangered or vulnerable in t		

	Criterion 4.3 Source of marine raw mat			
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	Compliance Criteria (Required Client Actions): NA	Auditor Evaluation (Required CAB Actions):	N/A	
Requirement: Not required Applicability: N/A			N/A	
	randard 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries, or fisheries where the second state of the		nings used in feed.	
tnote	[54] Meets ISEAL guidelines as demonstrated through full membership in the ISEAL Alliance, Instruction to Clients for Indicator 4.3.2 - FishSource Score of Fish Used in Feed	or equivalent as determined by the reclinical Advisory Group of the ASC.		
Indicator: Prior to achieving 4.3.1, the FishSource score	To determine FishSource scores of the fish species used as feed ingredients, do the following -go to http://www.fishsource.org/ - type the species into the search function box and choose the accurate fishery -confirm that the search identifies the correct fishery then scroll down or click on the link from For first audits, farms must have scoring records that cover all feeds purchased during the pr Note: Indicator 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries, or fish or trimmings used in feed.	m the menu on the left reads "Scores" evious 6-month period.		
[55] for the fishery(ies) from which all marine raw material in feed is derived	a. Record FishSource score for each species from which fishmeal or fish oil was derived and used as a feed ingredient (all species listed in 4.2.1a).			
Requirement: All individual scores ≥ 6, and biomass score ≥ 6	b. Confirm that each individual score ≥ 6 and the biomass score is ≥ 6 .	a) 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		
Applicability: All	Contract a qualified independent third party to conduct the assessment using the FishSource methodology and provide the assessment and details on the third party	1.	Compliant	
	-			

4.3.3	Indicator: Prior to achieving 4.3.1, demonstration of third-party verified chain of custody and traceability for the batches of fishmeal and fish oil which are in	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 submit reports from audits of feed producers (see 4.1.1c) as evidence that traceability system comply with traceability requirements of Indicator 4.3.3 by submitting evidence that supplied and Fish Oil Organization's Global Standard for Responsible Supply or to the Marine Stewards. For the first audit, a minimum of 6 months of data on feed is required and evidence shall related.	ms are in compliance. Alternatively, farms may show that their feed producers rs, and the batches of fishmeal and oil, are certified to the International Fishmeal ship Council Chain of Custody Standard.		
	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.	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	Compliant	
		b. Ensure evidence covers all the species used (as consistent with 4.3.2a, 4.2.1a, and 4.2.2a).			
		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.			
	Undicator : Egod containing fishmoal and/or fish oil	b. Obtain a declaration from the feed supplier stating that no fishmeal or fish oil originating from IUU catch was used to produce the feed.	a, b, c) Statement from Biomar (Feed supplier regarding ASC certification) on		
4.3.4	 [57] catch or from fish species that are categorized as vulnerable, endangered or critically endangered, according to the IUCN Red List of Threatened Species [58], whole fish and fish meal from the same species and family as the species being farmed Requirement: None [59] Applicability: All except as noted in [59] 	c. Obtain from the feed supplier declaration that the meal or oil did not originate from a species categorized as vulnerable, endangered or critically endangered, according to the IUCN Red List of Threatened Species [58] and explaining how they are able to demonstrate this (i.e. through other certification scheme or through their independent audit).	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. 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	
		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].	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 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. 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	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 Unreported.					
Footnote		[58] The International Union for the Conservation of Nature reference can be found at http://www.iucnredlist.org/.					
Footnote	[59] For species listed as "vulnerable" by IUCN, an exception is made if a regional population of the species has been assessed to be not vulnerable in a National Red List process that is managed explicit doesn't exist or isn't managed in accordance with IUCN guidelines, an exception is allowed when an assessment is conducted using IUCN's methodology and demonst Criterion 4.4 Source of non-marine raw materials in feed				n cases where a National Red List		
	T	Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):				
		a. Compile and maintain a list of all feed suppliers with contact information. (See also 4.1.1a)					
	Indicator: Presence and evidence of a responsible sourcing policy for the feed manufacturer for feed	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.	a, b) Statement from Biomar (Feed supplier regarding ASC certification) on complete traceability dated 14.01.2019 with details of raw material sources in				
4.4.1	ingredients that comply with recognized crop moratoriums [60] and local laws [61] Requirement: Yes Applicability: All	c. Confirm that third party audits of feed suppliers (4.1.1c) show evidence that supplier's responsible sourcing policies are implemented.	specific feeds for this site in this period have scores according to ASC s requirement for this indicator. c) 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	Compliant			
Footnote	[60] Moratorium: A period of time in which there is a	a suspension of a specific activity until future events warrant a removal of the suspension or is agricultural crops in defined geogra		refer to susper	nsion of the growth of defined		

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 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. 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		[62] Any alternate certification scheme would have to be approved as eq	quivalent by the Technical Advisory Group of the ASC.		
	Indicator : Evidence of disclosure to the buyer [63] of the	a. Obtain from feed supplier(s) a declaration detailing the content of soya and other plant raw materials in feed and whether it is transgenic.			
4.4.3	salmon of inclusion of transgenic [64] plant raw material, or raw materials derived from transgenic plants, in the feed Requirement: Yes, for each individual raw material	b. Disclose to the buyer(s) a list of any transgenic plant raw material in the feed and maintain documentary evidence of this disclosure. For first audits, farm records of disclosures must cover > 6 months.	a, b) Statement from Biomar (Feed supplier regarding ASC certification) on complete traceability dated 14.01.2019, no GMO product is used as feed ingredients c) Will be submitted to ASC	Compliant	
	containing > 1% transgenic content [65] Applicability: All	c. Inform ASC whether feed contains transgenic ingredients (yes or no) as per Appendix VI for each production cycle.	of will be submitted to ASC		
Footnote	[63] The company or en	city to which the farm or the producing company is directly selling its product. This standard r	requires disclosure by the feed company to the farm and by the farm to the buyer	of their salmor).
Footnote	[64] Transgenic: Cor	ntaining genes altered by insertion of DNA from an unrelated organism. Taking genes from on	ne species and inserting them into another species to get that trait expressed in th	ne offspring.	
Footnote		[65] See Appendix VI for transparency re	equirement for 4.4.3.		

		Criterion 4.5 Non-biological waste from p	roduction		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
		a. Prepare a policy stating the farm's commitment to proper and responsible treatment of non-biological waste from production. It must explain how the farm's policy is consistent with best practice in the area of operation.	a) Environmental policy for Cermaq Norway AS (11.04.2019) with referance to other relevant internal documents and reports		
		b. Prepare a declaration that the farm does not dump non-biological waste into the ocean.	Procedure for general waste management 7 june 2018 number 163 was avaiable. b) Statment on date 06.04.2017 that no wast is dumpted to sea.		
4.5.1	biological waste from production (e.g., disposal and recycling)	c. Provide a description of the most common production waste materials and how the farm ensures these waste materials are properly disposed of.	Definition of dangerous waste and how to be handled were provided on the waste management procedure ID 291 and 19. June. 2018. c) Nest, old production equipments, bags, empty chemical boxes, old PPEs, waste feed, old feed, silage, and plastics are the general wastes produced on farms.	Compliant	
	Requirement: Yes Applicability: All	d. Provide a description of the types of waste materials that are recycled by the farm.	d) All nonbiological waste (Nest, old production equipments, bags, empty chemical boxes, old PPEs, waste feed, old feed, silage, and plastics) handled by accredited companies which are apporved receivers of all kind of waste. The site has site specific plan for waste handling in their environmental targets, updated annually. Nets are collected, serviced by Mørenot. Dead fish delivied to Scanbio, seen invoice for 18.06.2019 and 16.09.2019 for 29750 L and 14800 L ensilage. General waste has been delivered to Havøysund Havnevesen AS, seen delivery on 20.09.2019, and 22.07.2019. Dangerous waste are delivered to the technical department of Cermaq.		
Footnote	[66] Proper and responsible disposal will vary based on fa non-biological waste into the ocean does not represent "p	cilities available in the region and remoteness of farm sites. Disposal of non-biological waste sproper and responsible" disposal.	shall be done in a manner consistent with best practice in the area. Dumping of		
		a. Provide a description of the most common production waste materials and how the farm ensures these waste materials are properly disposed of. (see also 4.5.1c)	a-d) All nonbiological waste (Nest, old production equipments, bags, empty		
	net peris, from grow out site is either disposed of	b. Provide a description of the types of waste materials that are recycled by the farm. (See also 4.5.1d)	chemical boxes, old PPEs, waste feed, old feed, silage, and plastics) handled by accredited companies which are apporved receivers of all kind of waste. The site has site specific plan for waste handling in their environmental targets,		
4.5.2	properly or recycled Requirement: Yes	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 18.06.2019 and 16.09.2019 for 29750 L and 14800 L ensilage.	Compliant	
	Applicability: All	d. Maintain records of disposal of waste materials including old nets and cage equipment.	General waste has been delivered to Havøysund Havnevesen AS, seen delivery on 20.09.2019, and 22.07.2019. Dangerous waste are delivered to the technical department of Cermaq.		

		Criterion 4.6 Energy consumption and greenhouse gas e	missions on farms [67]		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
Footnote		[67] See Appendix VI for transparency requireme	nts for 4.6.1, 4.6.2 and 4.6.3.		
	Indicator: Presence of an energy use assessment	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. Site(s) that is applying for certification. Boundaries for operational energy use should corresponding to Scope 3 emissions (i.e. the energy used to fabricate materials that are encourages companies to integrate energy use assessments across the board in the companies to the purposes of calculating energy consumption, the duration of the production cycle is t stages. Farms that have integrated smolt rearing should break out the grow-out stage portion are converted to kilojoules. Verification is done by internal or external assessment following for more details).	ond to the sources of Scope 1 and Scope 2 emissions (see Appendix V-1). Energy purchased by the farm) is not required. However the SAD Steering Committee y. The entire life cycle "at sea" - it does not include freshwater smolt production in of energy consumption if possible. Quantities of energy (fuel and electricity)		
	Indicator: Presence of an energy use assessment verifying the energy consumption on the farm and representing the whole life cycle at sea, as outlined in Appendix V- 1 Requirement: Yes, measured in kilojoule/mt fish produced/production cycle	a. Maintain records for energy consumption by source (fuel, electricity) on the farm throughout each production cycle.			
4.6.1		b. Calculate the farm's total energy consumption in kilojoules (kj) during the last production cycle.	a) Records and calculations were verified. b) Total energy consumption in kilojoules (kj): 5000906160		
	Applicability: All	c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle.	c) Biomass produced during last complete production cyclus 18G: 2260 mt	Compliant	2212790
		d. Using results from 4.6.1b and 4.6.1c, calculate energy consumption on the farm as required, reported as kilojoule/mt fish/production cycle.	d) Energy consumption KJ/tonn/generation: 2212790 e) Will be submitted to ASC	Compliant	2212790
		e. Submit results of energy use calculations (4.6.1d) to ASC as per Appendix VI for each production cycle.	f) Scope 1: Diesel, fuel oil, crude oil, petrol, propane Scope 2: Electricity. Assessed and compared between sites and production forms.		
		f. Ensure that the farm has undergone an energy use assessment that was done in compliance with requirements of Appendix V-1.	Assessed and compared between sites and production forms.		

		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 scope of this requirement is restricted to operational boundaries for the farm site(s) that is a companies to integrate GHG accounting practices across the board in the company. Verifica 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 Kyot hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and sulphur hexafluoride (SF ₆).	applying for certification. However the SAD Steering Committee encourages tion may be done by internal or external assessment following either the GHG			
	Indicator: Records of greenhouse gas (GHG [68])	a. Maintain records of greenhouse gas emissions on the farm.	a) Records were verified.			
4.6.2	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.	b) Farm records of GHG are done continuesly for a monthly period. Calculations and records for last complete production cyclus 17 G: Total Scope 1+2 = 3548000 kg CO2e c) Farm records of GHG assessment. Scope 1 diesel from diesel/gasoline workboat, truck, generator and scope 2 is			
		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_2 gases to CO_2 equivalents, specify the Global Warming Potential (GWP) used and its source.	purchased electricity d) All calculated to CO2e	Compliant		
		e. Submit results of GHG calculations (4.6.2d) to ASC as per Appendix VI at least once per year.	e) Will be submitted to ASC			
		f. Ensure that the farm undergoes a GHG assessment as outlined in Appendix V-1 at least annually.	 f) Calculaitons and assessment provided. Data convertion: Data from NVE, BP and Statoil. 			
Footnote	[68] For the purposes of this standard,	GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide (CO ₂); methan	e (CH4); nitrous oxide (N ₂ O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs);	and sulphur he	exafluoride (SF ₆).	_
Footnote		[69] GHG emissions must be recorded using recognized methods, s	standards and records as outlined in Appendix V.			

4.6.3	Indicator: Documentation of GHG emissions of the feed [70] used during the previous production cycle, as outlined in Appendix V, subsection 2 Requirement: Yes Applicability: All	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) associate information from their feed supplier(s) and thereafter maintain a continuous record of Feed the entire previous production cycle. Therefore farms should inform their feed supplier(s) are the farm provides its feed suppliers with detailed information about the requirements included 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 Note1: Farms may calculate GHG emissions of feed using the average raw material composition a lot-by-lot basis. Note2: Feed supplier's calculations must include Scope 1, Scope 2, and Scope 3 GHG emission 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. 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.	GHG emissions throughout all production cycles. This requirement applies across ad: uding a copy of the methodology outlined in Appendix V, subsection 2; m to demonstrate compliance. tion used to produce the salmon (by weight) rather than using feed composition ms as specified in Appendix V, subsection 2.	Compliant		
Footnote	[70] GHG emissions from feed can be given based on t	he average raw material composition used to produce the salmon (by weight) and not as doct emissions per unit feed. Farm site then shall use that information to calculate GHG emis	ssions for the volume of feed they used in the prior production cycle.	nanufacturer is	responsible for calcula	ating GHG
Footnote		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
			Auditor Evaluation (Required CAB Actions):			
Footnote		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions): hall be considered exempt from standards under Criterion 4.7.			
		Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not use antifoulants s	Auditor Evaluation (Required CAB Actions): hall be considered exempt from standards under Criterion 4.7.			
	Indicator: For farms that use copper-treated nets [73],	Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not use antifoulants s [72] See Appendix VI for transparency requirement a. Prepare a farm procedure for net cleaning and treatment that describes techniques,	Auditor Evaluation (Required CAB Actions): hall be considered exempt from standards under Criterion 4.7. ents for 4.7.1, 4.7.3 and 4.7.4. a) Procedure "Prosedyre for kontroll, ettersyn og renhold av not" ID 315, d.t.			
	evidence that nets are not cleaned [74] or treated in situ in the marine environment	Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not use antifoulants s [72] See Appendix VI for transparency requireme a. Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping.	Auditor Evaluation (Required CAB Actions): hall be considered exempt from standards under Criterion 4.7. ents for 4.7.1, 4.7.3 and 4.7.4. a) Procedure "Prosedyre for kontroll, ettersyn og renhold av not" ID 315, d.t. 22.08.17. Internal statement/procedure on antifouling used and not cleaning in sea defined in procedure and confirm that nets are not to be cleaned on site	Compliant		
Footnote	evidence that nets are not cleaned [74] or treated in situ	Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not use antifoulants of [72] See Appendix VI for transparency requirement a. Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping. b. Maintain records of antifoulants and other chemical treatments used on nets.	Auditor Evaluation (Required CAB Actions): hall be considered exempt from standards under Criterion 4.7. ents for 4.7.1, 4.7.3 and 4.7.4. a) Procedure "Prosedyre for kontroll, ettersyn og renhold av not" ID 315, d.t. 22.08.17. Internal statement/procedure on antifouling used and not cleaning in sea defined in procedure and confirm that nets are not to be cleaned on site b) Documents and traceability available in QMS system and net log from Mørenot. "Netcoating Plus" whitout copper by Sten-Hansen is used, ref safety			
Footnote	evidence that nets are not cleaned [74] or treated in situ in the marine environment Requirement: Yes	Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not use antifoulants of the complete systems that do not use nets and do not use antifoulants of the complete systems that do not use nets and do not use antifoulants of the complete systems and complete systems. [72] See Appendix VI for transparency requirements are used of the complete systems and treatment that describes techniques, technologies, use of off-site facilities, and record keeping. b. Maintain records of antifoulants and other chemical treatments used on nets. c. Declare to the CAB whether copper-based treatments are used on nets. d. If copper-based treatments are used, maintain documentary evidence (see 4.7.1b) that	Auditor Evaluation (Required CAB Actions): hall be considered exempt from standards under Criterion 4.7. ents for 4.7.1, 4.7.3 and 4.7.4. a) Procedure "Prosedyre for kontroll, ettersyn og renhold av not" ID 315, d.t. 22.08.17. Internal statement/procedure on antifouling used and not cleaning in sea defined in procedure and confirm that nets are not to be cleaned on site b) Documents and traceability available in QMS system and net log from Mørenot. "Netcoating Plus" whitout copper by Sten-Hansen is used, ref safety sheet dt 13.05.2016, nr 1907/2006 (REACH) 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.			
Footnote	evidence that nets are not cleaned [74] or treated in situ in the marine environment Requirement: Yes Applicability: All farms except as noted in [71] [73] Under the SAD, "copper-treated net" is defined as a	Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not use antifoulants of the complete of the CAB whether copper-based treatments are used on nets. C. Declare to the CAB whether copper-based treatments are used on nets. 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	Auditor Evaluation (Required CAB Actions): hall be considered exempt from standards under Criterion 4.7. ents for 4.7.1, 4.7.3 and 4.7.4. a) Procedure "Prosedyre for kontroll, ettersyn og renhold av not" ID 315, d.t. 22.08.17. Internal statement/procedure on antifouling used and not cleaning in sea defined in procedure and confirm that nets are not to be cleaned on site b) Documents and traceability available in QMS system and net log from Mørenot. "Netcoating Plus" whitout copper by Sten-Hansen is used, ref safety sheet dt 13.05.2016, nr 1907/2006 (REACH) 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	Compliant at a land-base		

4.7.2	[75] Requirement: Yes Applicability: All farms except as noted in [71]	 a. Declare to the CAB whether nets are cleaned on-land. b. If nets are cleaned on-land, obtain documentary evidence from each net-cleaning facility that effluent treatment is in place. c. If yes to 4.7.2b, obtain evidence that effluent treatment used at the cleaning site is an appropriate technology to capture of copper in effluents. 	a) Nets are cleaned on land by net producer and contractor Morenøt AS. b) Each net facility has certification form the authorities to clean nets at their facilities. All the nest are serviced and cleaned by Morenøt AS. They are certified to ISO 14001:2015. All solids are collected and effluent water is tested for compliance to strict effluent requirements according to Section 25-04 of the Pollution Regulation (Discharges of up to 2 kg of copper / year from land-based facilities for washing farmed nets) c) No copper effluent is allowed by law in Norway.	Compliant	
Footnote		[75] Treatment must have appropriate technologies in place to capt	ture copper if the farm uses copper-treated nets.		
		Note: If the benthos throughout and immediately outside the full AZE is hard bottom, provid 2.1.1c). a. Declare to the CAB whether the farm uses copper nets or copper-treated nets. (See also	le evidence to the CAB and request an exemption from Indicator 4.7.3 (see		
4.7.3	Appendix I-1 Requirement: Yes	4.7.1c). If "no", Indicator 4.7.3 does not apply.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,	a. Inform the CAB whether:1) farm is exempt from Indicator 4.7.4 (as per 4.7.3a), or2) Farm has conducted testing of copper levels in sediment.			
	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	b. Provide evidence from measurements taken in 4.7.3b that copper levels are $<$ 34 mg Cu/kg dry sediment weight.	a) Farm has conducted copper testing onsite. b) Levels are below the requirements. Results ranging from 5.8 to 9.8 mg Cu/kg		
4.7.4	concentration rails within the range of background concentrations as measured at three reference sites in the water body Requirement: Yes	c. If copper levels in 4.7.4b are \geq 34 mg Cu/kg dry sediment weight, provide evidence the farm tested copper levels in sediments from reference sites as described in Appendix I-1 (also see Indicators 2.1.1 and 2.1.2).	dry sediment weight c NA d) NA	Compliant	<9.8
	excluding those farms shown to be exempt from	d. Analyze results from 4.7.4c to show the background copper concentrations as measured at three reference sites in the water body.	e) Will be submitted to ASC		
	Indicator 4.7.3	e. Submit data on copper levels in sediments to ASC as per Appendix VI for each production cycle.			
Footnote	[7	[6] According to testing required under 4.7.3. The standards related to testing of copper are of	only applicable 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	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	NCIPLE 5: MANAGE DISEASE AND PARASITES IN AN ENVIRONMENTALLY RESPONSIBLE MANNER					
		Criterion 5.1 Survival and health of farmed				
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote		[77] See Appendix VI for transparency requireme	nts for 5.1.4, 5.1.5 and 5.1.6.	<u> </u>		1
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	a. Prepare a fish health management plan that incorporates components related to identification and monitoring of fish disease and parasites. This plan may be part of a more comprehensive farm planning document.	Site specific Fish Health Plan for Rivarbukt in QMS with links to relevant procedures. Plan covers all aspect of relevant diseaes and parasite diagnostics and control measures. Internal veterinary services, responsible veterinarian. Approved and signed by veterinarian dt. 16.01.20 Benedicte Warland.	Compliant		
3.112	Requirement: Yes Applicability: All	b. Ensure that the farm's current fish health management plan was reviewed and approved by the farm's designated veterinarian [78].	Approved and signed by veterinarian dt. 16.01.20 Benedicte Warland, Fish Health Manager.	Compliant		
	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	b. Maintain a current list of personnel who are employed as the farm's designated veterinarian(s) [78] and fish health manager(s) [79].	a) Minimum 6 visits annually since less than 1 million fish stocked. System for weekly scheduled meetings covering e.g FH issues. Last visit 28.01.2020. The list of fish health personnel with valid HPR number was verified (Benedicte Warland, fish health Biologist).	Compliant		
	Applicability: All	c. Maintain records of the qualifications of persons identified in 5.1.2b.	Walland, hish health blologisty.			
Footnote		nsible for health management on the farm who has the legal authority to diagnose disease and lifications and is equivalent to a veterinarian for purposes of these standards. This definition a		or other profes	sional has equivalent ¡	orofessional
Footnote	[79] A fish health manager i	s someone with professional expertise in managing fish health, who may work for a farming c	ompany or for a veterinarian, but who does not necessarily have the authority to	prescribe medi	icine.	
	Indicator: Percentage of dead fish removed and	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			
5.1.3	disposed 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.	håndtering av 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 16.09.2019 and 18.06.2019 on retrival ensilage	Compliant		
	Applicability: All	c. For any exceptional mortality event where dead fish were not collected for post-mortem analysis, keep a written justification.	c) No exceptional mortalitys.			
Footnote	[80] The SA	AD recognizes that not all mortality events will result in dead fish present for collection and re	moval. However, such situations are considered the exception rather than the no	rm.		

		Note: Farms are required to maintain mortality records from the current and two previous p cycle are required. It is recommended that farms maintain a compiled set of records to demonstrate compliance.				
	Indicator: Percentage of mortalities that are recorded, classified and receive a post-mortem analysis 5.1.4 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) The FHP guide staff on sampling and post-mortem analysis.			
5.1.4		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.	c) Complaint. If mortality exceeding a defined number, regadless of inconclusive or conclusive on-site diagnosis the fish are nent out. No sampling sent out for this generation.	Compliant		
		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).	d) Record are available and documented in akvaFarmer, all mortalities are categorised.			
		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).				
		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 requ	ires off-site laboratory diagnosis. A qualified professional must conduct all diagnosis. One hur fish from the mortality event shal		sarily every fish	ո. A statistically relevant nui	umber of
		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			
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.	recent complete production cycle 2018 G (39) / total number of fish produced	Compliant		0.59
		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).	(841869) = 0.59% c) Will be submitted to ASC			
Footnote		[82] Viral disease-related mortality count shall include unspecified and unex	xplained 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, 18G: 37.9% b) Unexplianed mortality for last two G 18 and 15: 0.34% of the total mortality Unexplianed mortality for 15G: 90/27271=0.33% Unexplianed mortality for 18G: 0.01% c) Will be submitted to ASC	Compliant	
		Note: Farms have the option to integrate their farm-specific mortality reduction program int	to the farm's fish health management plan (5.1.1).		
	Indicator: A farm-specific mortalities reduction programme that includes defined annual targets for reductions in mortalities and reductions in unexplained mortalities	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		
5.1.7	Requirement: Yes Applicability: All	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.	with concrete objectives for actions to be reduced. To reduce the mortality the fish health personnel discuss the root causes and preventive action plans of mortalities in the recent completed production cycle.	Compliant	
	Applicability. All	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	nstruction to Clients and CABs for Criterion 5.2 - Records Related to Therapeutic Treatments Indicator 5.2.1 requires that farms maintain detailed record of all chemical and therapeutant use. Those records maintained for compliance with 5.2.1, if all consolidated into a single place, can be used to demonstrate performance against ubsequent Indicators (5.2.1 through 5.2.10) under Criterion 5.2.				
	·	nical and therapeutant use. Those records maintained for compliance with 5.2.1, if all consolid	dated into a single place, can be used to demonstrate performance against		
5.2.1	·	a. Maintain a detailed record of all chemical and therapeutant use that includes: - name of the veterinarian prescribing treatment; - product name and chemical name; - reason for use (specific disease) - date(s) of treatment; - amount (g) of product used; - dosage; - t of fish treated; - the WHO classification of antibiotics (also see note under 5.2.8); and - the supplier of the chemical or therapeutant.	a) 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.	Compliant	
	Indicators (5.2.1 through 5.2.10) under Criterion 5.2. 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	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	a) Allowed usage defined in Fish Health Plan. Antibiotics not used. Treatments done are anaesthetics all under responsible veterinarian prescriptions. Registered in Fishtalk/fish CV including dates for usage, quantity and dosage, withdrawal periods defined and regsitered in Fishtalk. b) Allowed usage defined in FHP. Other treatments done are anaesthetics all under responsible veterinarian prescriptions. Registered in Fishtalk/fish CV	Compliant	
	Indicators (5.2.1 through 5.2.10) under Criterion 5.2. 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	a) Allowed usage defined in Fish Health Plan. Antibiotics not used. Treatments done are anaesthetics all under responsible veterinarian prescriptions. Registered in Fishtalk/fish CV including dates for usage, quantity and dosage, withdrawal periods defined and regsitered in Fishtalk. b) Allowed usage defined in FHP. Other treatments done are anaesthetics all under responsible veterinarian prescriptions. Registered in Fishtalk/fish CV. Dates for usage, quantity and dosage, withdrawal periods defined and registered in Fishtalk.	Compliant	
	Indicators (5.2.1 through 5.2.10) under Criterion 5.2. 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 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	a) Allowed usage defined in Fish Health Plan. Antibiotics not used. Treatments done are anaesthetics all under responsible veterinarian prescriptions. Registered in Fishtalk/fish CV including dates for usage, quantity and dosage, withdrawal periods defined and regsitered in Fishtalk. b) Allowed usage defined in FHP. Other treatments done are anaesthetics all under responsible veterinarian prescriptions. Registered in Fishtalk/fish CV. Dates for usage, quantity and dosage, withdrawal periods defined and registered in Fishtalk. c) Will be submitted to ASC	Compliant	

5.2.2	Indicator: Allowance for use of therapeutic treatments that include antibiotics or chemicals that are banned [85] in any of the primary salmon producing or importing countries [86] Requirement: None Applicability: All	a. Prepare a list of therapeutants, including antibiotics and chemicals, that are proactively banned for use in food fish for the primary salmon producing and importing countries listed in [86]. b. Maintain records of voluntary and/or mandatory chemical residue testing conducted or commissioned by the farm from the prior and current production cycles.	a) Listed in "Forskrift om grenseverdier for legemidler i næringsmidler" "Norwegian regulation/NFSA. Substances banned in marked " In FHP " oversikt MRL for EU, USA, Japan, Kina, Australia og Russia" last revised in March 2018. Statement dt.18.01.18 - "Medicines and antibiotics allowed by Cermaq Norway". Approved and used substances are referred in FHP. Doc. dated 18.01.2018 with overview of banned substances. List for USA and Japan only permitted substances b) 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 gove	ernment entity because of concerns around the substance. A substance banned in any of the regardless of country of production or destination of the product. The SAD reco		d in any salmo	n farm certified under the SAD,
Footnote		[86] For purposes of this standard, those countries are Norway, the UK,	Canada, Chile, the United States, Japan and France.		
	Indicator: Percentage of medication events that are prescribed by a veterinarian	a. Obtain prescription for all therapeutant use in advance of application from the farm veterinarian (or equivalent, see [78] for definition of veterinarian).	a) Record of prescriptions was seen. All from veterinarian / fish biolog For example: Prescription from 131.01.2020 for Slice Vet EWOS by Elisabeth Ann Myklebust,		
5.2.3	Requirement: 100% Applicability: All	b. Maintain copies of all prescriptions and records of veterinarian responsible for all medication events. Records can be kept in conjunction with those for 5.2.1 and should be kept for the current and two prior production cycles.	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	
		a. Incorporate withholding periods into the farm's fish health management plan (see			
		5.1.1a).	a) In Fishtalk, automatically notified/blocked according to degreedays		
5.2.4	Indicator: Compliance with all withholding periods after treatments Requirement: Yes	b. Compile and maintain documentation on legally-required withholding periods for all treatments used on-farm. Withholding period is the time interval after the withdrawal of a drug from the treatment of the salmon before the salmon can be harvested for use as food.	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	

	1				
5.2.5	Appendix VII) for each production cycle 2. The parasiticide load for each agent over the production cycle	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 2018G, the last complete production cylce, on 10-16.10.2018. WNMT=1 c) Will be submitted to ASC	Compliant	
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	h. As applicable, submit data to ASC on WNMT score for the most recent production cycle.	a) Norway Country Entry Leve: 5. The WNMT score for the most recent production cycle: 1 b) Will be submitted to ASC	Compliant	
5.2.7	with 25% per 2 years until the WNMT is at or below the Global Level (see Appendix VII). Requirement: Yes	 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	
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	antimicrobial treatments Requirement: None	 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	during the current production cycle, inform the CAB prior to scheduling audit	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. 	NA	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. 	NA	N/A	
	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 9, packed on 05.08.2019 to a buyer with all medicinal and non-medicinal treatments.	Compliant	
		Criterion 5.3 Resistance of parasites, viruses and bacteria Compliance Criteria (Required Client Actions):	to medicinal treatments Auditor Evaluation (Required CAB Actions):		
		Instruction to Clients for Indicator 5.3.1 - Identifying the 'Expected Effect' of Medicinal Trea Indicator 5.3.1 requires that farms identify treatments that have not produced the expected	atment		
	Indicator: Bio-assay analysis to determine resistance when two applications of a treatment have not produced the expected effect	understand and evaluate the impact of treatment. Example: sea lice treatment with emamectin benzoate The SAD SC recommends that a typical baseline for effectiveness of emamectin benzoate is a determine whether treatment has produced the expected effect, farm and auditor must revilice is < 90% then the treatment did not produce the expected effect and a bio-assay should Note: If field-based bio-assays for determining resistance are ineffective or unavailable, the fresistance formation. The auditor shall record in the audit report why field-based bio-assays of resistance formation.	lew pre- and post-treatment lice counts. If the calculated percent reduction in be performed to determine whether sea lice have developed resistance. Farm shall have samples analyzed by an independent laboratory to determine		
5.3.1	when two applications of a treatment have not produced	understand and evaluate the impact of treatment. Example: sea lice treatment with emamectin benzoate The SAD SC recommends that a typical baseline for effectiveness of emamectin benzoate is a determine whether treatment has produced the expected effect, farm and auditor must revilice is < 90% then the treatment did not produce the expected effect and a bio-assay should Note: If field-based bio-assays for determining resistance are ineffective or unavailable, the fresistance formation. The auditor shall record in the audit report why field-based bio-assays	a minimum of 90 percent reduction in abundance of lice on the farmed fish. To lew pre- and post-treatment lice counts. If the calculated percent reduction in the performed to determine whether sea lice have developed resistance. Farm shall have samples analyzed by an independent laboratory to determine were deemed ineffective and shall include results from the laboratory analyses. No consecutive treatments done in present cycle without desired effect.	Compliant	
5.3.1	when two applications of a treatment have not produced the expected effect Requirement: Yes	understand and evaluate the impact of treatment. Example: sea lice treatment with emamectin benzoate The SAD SC recommends that a typical baseline for effectiveness of emamectin benzoate is a determine whether treatment has produced the expected effect, farm and auditor must revilice is < 90% then the treatment did not produce the expected effect and a bio-assay should Note: If field-based bio-assays for determining resistance are ineffective or unavailable, the fresistance formation. The auditor shall record in the audit report why field-based bio-assays of resistance formation. 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.	a minimum of 90 percent reduction in abundance of lice on the farmed fish. To lew pre- and post-treatment lice counts. If the calculated percent reduction in the performed to determine whether sea lice have developed resistance. Farm shall have samples analyzed by an independent laboratory to determine were deemed ineffective and shall include results from the laboratory analyses	Compliant	

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. Requirement: Yes Applicability: All	No guidance available yet		Compliant	
		Criterion 5.4 Biosecurity management			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
Footnote		[95] See Appendix VI for transparency require	ments for 5.4.2 and 5.4.4.		
	Indicator: Evidence that all salmon on the site are a	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.		
5.4.1		b. Provide evidence of stocking dates (purchase receipts, delivery records) to show that there were no gaps > 6 months for smolt inputs for the current production cycle.	Stocking date 18G: 02-15.01.2018 Harvest date: 05-27.08.2019. Fist stocking date for 19G: 26-29.10.2019 b) Smolt CVs for site with ova /stripping/startfeeding dates. salmon on the site	Compliant	
	Applicability: All farms except as noted in [97]	-	are from a single-year class.		
Footnote	[96] Gaps	of up to six months between inputs of smolts derived from the same stripping are acceptable	as long as there remains a period of time when the site is fully fallow after harves	st.	
Footnote		[97] Exception is allowed have closed, contained production units where there is complete separation of water between try disease screening protocol, dedicated quarantine capability and biosecurity measures for effluent).	en units and no sharing of filtration systems or other systems that could spread di		UV or other effective treatmen

	e m	a. For mortality events logged in 5.1.4a, show evidence that the farm promptly evaluated each to determine whether it was a statistically significant increase over background mortality rate on a monthly basis [98]. The accepted level of significance (for example, p < 0.05) should be agreed between farm and CAB.			
	Indicator : Evidence that if the farm suspects an unidentifiable transmissible agent, or if the farm	b. For mortality events logged in 5.1.4a, record whether the farm did or did not suspect (yes or no) an unidentified transmissible agent.			
5.4.2	experiences unexplained increased mortality, [98] the farm has: 1. Reported the issue to the ABM and to the appropriate regulatory authority 2. Increased monitoring and surveillance [99] on the farm and within the ABM 3. Promptly [100] made findings publicly available	c. Proceed to 5.4.2d if, during the most recent production cycle, either: - results from 5.4.2a showed a statistically significant increase in unexplained mortalities; or - the answer to 5.4.2b was 'yes'. Otherwise, Indicator 5.4.2 is not applicable.	a-e) Continuous evaluation. No events of UIA category mortality categorised nor suspected at farm. Ref to indicator 5.1.4a for details of monitoring. System available for prompt publication in website https://www.cermaq.com/wps/wcm/connect/cermaq/cermaq/our-sustainable-	Compliant	
	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. 	choice/asc-dashboard/		
		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 o			
Footnote		[99] Primary aim of monitoring and surveillance is to investigate wheth			
Footnote		[100] Within one mont	th.		

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 Indicator 5.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal as farm practices consistent with the intentions of the Code. For purposes of the ASC Salmo the farm will initiate an aggressive response to detection of an exotic OIE-notifiable disease eradicated (area declared free of the pathogen)]. An aggressive response will involve, at a management of the infected site; - implementation of quarantine zones (see note below)in accordance with guidelines from 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 Health Code by developing relevant policies and procedures and integrating them into the fill Note: The Steering Committee recognizes that establishment of quarantine zones will likely some, though not necessarily all, of the ABM.	al Health Code (see http://www.oie.int/index.php?id=171). Compliance is defined in Standard, this means that the farm must have written procedures stating how on the farm ['exotic' = not previously found in the area or had been fully ninimum, the following actions: OIE for the specific pathogen; and farm practices are consistent with the intentions of the OIE Aquatic Animal arm's fish 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. 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.	a) OIE AAHC presented and awareness demonstrated. Awareness of OIE aquatic Animal Health Code. VHP "Helseplan for matfiskanlegg" refers to OIE Aquatic Animal Health Code. b) Internal procedure in Intelex on practices in accordance with OIE AHC" Described in VHP, notification of diseases, contingency plan (Beredskapsplan for Cermaq, d.t. 27.03.2018, ID 1154) "Notification of diseases". Statment from Cermaq, Adhernce to the OIE Aquatiq, Health Code" d.t 18.01.2018, signed fish healh manager benedicte Warland c) Confirmed during interviews	Compliant	
Footnote		ent with the intentions of the Code, to be further outlined in auditing guidance. For purposes of the code, to be further outlined in auditing guidance. For purposes of uarantine zones in accordance with guidelines from OIE for the specific pathogen. Quarantine of the ABM. Exotic signifies not previously found in the area or had been	zones will likely incorporate mandatory depopulation of sites close to the infected 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	 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. 	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 star	ndards, OIE-notifiable diseases relevant to salmon aquaculture were: Epizootic haematopoiet Gyrodactylosis (Gyrodactylus		SA), Viral hemo	orrhagic septicemia (VHS) and
Footnote		[104] This is in addition to any notifications to regulatory bodies required	l under law and the OIE Aquatic Animal Health Code.		
Footnote		[105] Within one mont	rh.		
DDINGIDI E	S DELIVER ON AND OPERATE FARMS IN A COCIALLY DESCRIPTION	Social requirements in the standards shall be audited by an individual who is a lead aud	itor in conformity with SAAS Procedure 200 section 3.1.		
PRINCIPLE	5: DEVELOP AND OPERATE FARMS IN A SOCIALLY RESPONSI	BLE MANNER 6.1 Freedom of association and collective barg	gaining [106]		
		Compliance Crit			
Footnote	[106] Bargain collecti	vely: A voluntary negotiation between employers and organizations of workers in order to es	tablish the terms and conditions of employment by means of collective (written)	agreements.	
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 interfee 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 there is request visits to sites will be organised without obstacles. d) Interview has confirmed information. The TU representative has possibility to visit farms.	e visited case by case. The rest of the time open channel by phone and e-mail. If	Compliant	
6.1.2	protect their rights Requirement: Yes	a) The job contracts do not specifically states the right of freedom of association but it has reb) Employer has created WEB based Personal handbook and Ethical guidelines (last revision 2 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					
		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	age would apply if the minimum age law of an area stipulates a higher age for work or mandatory schooling. Minimum age may be 14 if the country allows it under the develo	pping country e	xceptions in ILO conve	ntion 138.		
Toothote		[100] china cason, hiny work by a china younger than the age specified in the deminator of a china.					
6.2.2	Indicator: Percentage of young workers [109] that are protected [110] Requirement: 100% Applicability: All	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. c) Time sheets are maintained. d) No young workers employed during the audit to be interviewed. e) Personal risk assessment was done for young workers indicating forbidden works as per procedure for Young workers ID 147 with risk evaluation template ID 371. The assessment of young workers of last period is available. f) Site was inspected. No interviews were conducted as no young workers are employed during the audit.	Compliant				
Footnote		[109] Young Worker: Any worker between the age of a child, as defined above, and under the age of 18.					
Footnote	[110] Protected: Workers between 15 and 18 years of a	ge 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 schoo	l time, and wor	k time shall not exceed	d 10 hours.		
Footnote	[111] Haz	ard: The inherent potential to cause injury or damage to a person's health (e.g., unequipped to handle heavy machinery safely, and unprotected exposure to harmful chemicals	s).				
Footnote	[112] Hazardous work: Work that, by its nature or	the circumstances in which it is carried out, is likely to harm the health, safety or morals of workers (e.g., heavy lifting disproportionate to a person's body size, operating heav	[112] Hazardous work: Work that, by its nature or the circumstances in which it is carried out, is likely to harm the health, safety or morals of workers (e.g., heavy lifting disproportionate to a person's body size, operating heavy machinery, exposure to toxic chemicals).				

		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 identified. d) No cases identified. e) No cases identified. f) Interview has confirmed information. Payroll records are maintained.	Compliant		
Footnote	[113] Forced (Compulsory) labor: All work or service t	nat 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 monetary sanctions, physical punishment, or the loss of rights and privileges or restriction of movement (e.g., withholding of identity documents).	d as a repayme	ent of debt. "Penalty" c	an 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	L		
Footnote	[115] Discrimination: Any distinction, exclusion or prefe	rence that has the effect of nullifying or impairing equality of opportunity or treatment. Not every distinction, exclusion or preference constitutes discrimination. For instance bonus is not by itself discriminatory. Positive discrimination in favor of people from certain underrepresented groups may be legal in some countries.	, a merit- or pe	rrormance-based pay ii	icrease 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 p	olicies stating that the company does not engage in or support discrimination in hiring, remuneration, access to training, promotion, termination or retirement based on race, sexual orientation, union membership, political affiliation, age or any other condition that may give rise to discrimination.	caste, national	origin, religion, disabili	ty, gender,
6.4.2	Requirement: None	a) No cases identified. b) The rights of employees are respected. During interview no discrimination cases reported	Compliant		

	Criterion 6.5 Work environment health and safety				
		Compliance Criteria			
	Indicator: Percentage of workers trained in health and	a) Documentation is developed and is available in working places.			
	safety practices, procedures [117] and policies on a yearly basis	b) Employees know emergency respond procedures. The training records are kept on site.			
6.5.1	Requirement: 100%	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. Last one was on 22-03-2019			
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) For the workers training in proper use of PPE use is done. d) Interview confirms PPE management.	Compliant		
6.5.3	Indicator: Presence of a health and safety risk assessment and evidence of preventive actions taken Requirement: Yes Applicability: All	a) The procedure for risk assessment No 366 is implemented. b) Employees are trained and annual refreshment trainings are organised during risk analysis. Training records are maintained. Last evaluation of the H&S risks and the training for employees took place April 2018 The safe job analysis is done prior to all major works on the site with definitions of risks and their management measures. c) Monthly H&S committee meetings are discussing the need to update the procedures based on practices or OHS incidents accidents. Minutes of meetings are maintained. The site manager has possibility to suggest changes to procedure.	Compliant		

6.5.4	Indicator: Evidence that all health- and safety-related accidents and violations are recorded and corrective actions are taken when necessary Requirement: Yes	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. The report from a diving on 17-06-2019 on cage 2 was seen. Howevere, the report the name of the divers and the diving company was missining in the report.	Minor	The report from a diving on 17-06-2019 on cage 2 was seen. Howevere, the name of the diving company was missining in the report.	site
		Criterion 6.6 Wages		тероге.	
		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. 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.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 c	covers the basic needs of an individual or family, including housing, food and transport. This concept differs from a minimum wage, which is set by law and may or may not cov	er the basic ne	eds of workers.	

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6.6.3	Indicator: Evidence of transparency in wage-setting and rendering [121] Requirement: Yes	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			
	[122]	a) Contracts available, records maintained. b) No evidences			
6.7.1	Requirement: 100%	c) Interview confirms legal employment by contracts.	Compliant		
Footnote	[122] Labor-only contracting relationships or false apprenticeship schemes are not acceptable. This includes revolving/consecutive labor contracts to deny benefit accrual or equitable remuneration. False Apprenticeship Scheme: The practice of hiring workers under apprenticeship terms without stipulating terms of the apprenticeship 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 arrangement: The practice of hiring workers without establishing 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.				
6.7.2	Indicator: Evidence of a policy to ensure social compliance of its suppliers and contractors Requirement: Yes	 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	and confidential grievance procedures Requirement: Yes	 a) Procedure of Conflict resolution defines ways of communication of conflicts. Whistle blowing procedure is developed, which is included in Personnel handbook. Conflict management procedure ID 429 is defined. b) Workers are familiar with procedures for conflict resolution. c) The interviews are confirming the information above. 	Compliant		
6.8.2	addressed [123] within a 90-day timeframe Requirement: 100%	a) The system of handling of grievances, complaints and labour conflicts is in place and effective. b) The system of handling of grievances, complaints and labour conflicts is in place. Documentation is maintained. The conflict had place. Management had applied all necessary procedures and addressed the conflict in good way. 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						
	Indicator: Incidences of excessive or abusive disciplinary actions	a) The employer does not use excessive or abusive disciplinary actions. No cases of improper disciplinary behaviour, no warnings were issued.						
6.9.1	Requirement: None	b) No cases identified.	Compliant					
	Applicability: All	c) Interview has confirmed no cases of improper disciplinary behaviour.						
Footnote	[1	124] Mental Abuse: Characterized by the intentional use of power, including verbal abuse, isolation, sexual or racial harassment, intimidation or threat of physical force.						
	Inclicy whose aim is to improve the worker 11751	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.						
6.9.2	Requirement: Yes	b) Company has the working disciplinary system. Workers confirmed understanding and fairness of disciplinary policy. Documentation is maintained.	Compliant					
	Applicability: All							
Footnote	[125] If disciplinary action is required, progressive verbal and written warnings shall be engaged. The aim shall always be to improve the worker; dismissal shall be the last resort. Policies for bonuses, incentives, access to training and promotions are clearly stated and understood, and not used arbitrarily. Fines or basic wage deductions shall not be acceptable disciplinary practices.							
		Criterion 6.10 Working hours and overtime						
		Compliance criteria						
		Note: Working hours, night work and rest periods for workers in agriculture should be in accordance with national laws and regulations or collective agreements (e.g. The Safety and Health in Agriculture Convention, 2001). Additional information can be found on the website of the International Labour Organization (www.ilo.org).						
6.10.1	Indicator: Incidences, violations or abuse of working hours and overtime laws [126]	a) The time scheme 1:1 is used. (7 days x 10 hours and 7 days-off). It is approved by ASC. The OT limits are defined by Labour law and Tariff agreement.						
0.10.1	Requirement: None	b) Workers are registering working hours daily into Capitech system. Site manager approves. Working hours are within allowed limits.	Compliant					
	Applicability: All	c) The work in shifts is applied and agreed by workers.						
		d) Interview has confirmed no abuse of working time and overtime amounts.						
Footnote	[126] In cases w	where local legislation on working hours and overtime exceed internationally accepted recommendations (48 regular hours, 12 hours overtime), the international standards will	l apply.					
	Indicator: Overtime is limited, voluntary [127], paid at a premium rate [128] and restricted to exceptional circumstances	a) Overtime for workers is paid at premium rate as could be seen in payslips.						
6.10.2		b) The procedure for working hours was developed. The timesheets are managed in Capitech system.	Compliant					
		c) Interviews have confirmed voluntary overtime.						
	Applicability: All except as noted in [130]							
Footnote		[127] Compulsory overtime is permitted if previously agreed to under a collective bargaining agreement.						
Footnote		[128] Premium rate: A rate of pay higher than the regular work week rate. Must comply with national laws/regulations and/or industry standards.						

	Criterion 6.11 Education and training					
		Compliance criteria				
6.11.1	and fish escape management and health and safety procedures Requirement: Yes	 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	policies in line with the standards under 6.1 to 6.11 above Requirement: Yes	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	[129] Applies to the headquarters of the company	in a region or country where the site applying for certification is located. The policy shall relate to all of the company's operations in the region or country, including grow-out,	smolt producti	ion and processing faci	ities.	
		Social requirements in the standards shall be audited by an individual who is a lead auditor in conformity with SAAS Procedure 200 section 3.1.				

PRINCIPLE 7	7: BE A GOOD NEIGHBOR AND CONSCIENTIOUS CITIZEN				
		Criterion 7.1 Community engagement			
		Compliance Criteria			
7.1.1	consultation and engagement with community representatives and organizations Requirement: Yes	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 a	It least bi-annually with elected representatives of affected communities. The agenda for the meetings should in part be set by the community representatives. Participatory Soption to consider here.	ocial Impact As	ssessment methods ma	y be one
7.1.2	policy and mechanism for the presentation, treatment and resolution of complaints by community stakeholders and organizations Requirement: Yes	 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		
Footnote		[131] Effective: In order to demonstrate that the mechanism is effective, evidence of resolutions of complaints can be given.			
7.1.3		a) The yellow signs are available. 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.			

	Criterion 7.2 Respect for indigenous and aboriginal cultures and traditional territories			
	Compliance Criteria			
les, the territorial boundaries of indigenous groups have a undefined at behind the ASC Salmon Standard is that the farm will iden trimental impact upon its neighbors. Effective community	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, there is no simple way to establish whether the farm is operating in close proximity to indigenous groups. Here ASC provides the following guidance. Intify 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 impacts to neighbor groups. Through a transparent process of consultation, indigenous groups who are put under "street 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 "street consultations".	r, when bound portant than un	aries of indigenous t derstanding whethe	erritories are
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	a) The application to have permission to operate covered identification and hearing of indigenous groups. The Sammi group of rain deer owners present in the area. 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		
proactive consultation with indigenous communities Requirement: Yes [133] Applicability: All farms that operate in indigenous	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		
	[133] All standards related to indigenous rights only apply where relevant, based on proximity of indigenous territories.	•		•
Requirement: Yes	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		
	les, the territorial boundaries of indigenous groups have a undefine to behind the ASC Salmon Standard is that the farm will identification in the concerns their consulted as required by relevant local and/or national laws and regulations the consultations that operate in indigenous territories or in proximity to indigenous communities their consultation with indigenous communities their consultation with indigenous or aboriginal people [133] Indicator: Evidence that the farm has undertaken proactive consultation with indigenous or aboriginal people [133] Indicator: Evidence of a protocol agreement, or an active process [134] to establish a protocol agreement, with indigenous communities the consultation that operate in indigenous communities the consultation that operate in indigenous communities the consultation that operate in indigenous the consultation that operate in indigenous the consultation that operate in indigenous communities that operate in indigenous communities the consultation that the farm that operate in indigenous consultation that the f	instruction to Clients and CABs on Criterion 7.2 - Traditional Territories of indigenous Groups imports standard requires that farms must be respectful of the traditional territories of indigenous groups. The indicators listed under Criterion 7.2 in the discussion of the control of the con	Instruction to Clients and CABs on Criterion 7.2 - Traditional Territories of Indigenous Groups Instruction to Clients and CABs on Criterion 7.2 - Traditional Territories of Indigenous Groups Instruction to Clients and CABs on Criterion 7.2 - Traditional Territories of Indigenous Groups Instruction to Clients and CABs on Criterion 7.2 - Traditional Territories of Indigenous Groups Indicators on the CAB Salmon Standard requires that I farms must be respectful of the traditional development of Indigenous Groups and Salmon Salmon (Indigenous Groups). However, where bound control to Nove Members a farm is operating in toke promising confidence on Indicators (Indigenous Groups). However, where bound interfered in Production (Indigenous Groups) is set important. The must be controlled for the Indigenous Groups (Indigenous Groups) is less important than untimered in Impact upon its neighbors. Effective community from Controlled Community (Indigenous Groups) is less important than the interference of the farm's impacts. Continued consultations between farm and neighbors should create a forum where any key issue can be discussed and resolved. The interview was not organized due to logistics of the resolvence of the farm's impacts. Continued consultations between farm and neighbors should create a forum where any key issue can be discussed and resolved. The interview was not organized due to logistics and the indigenous groups were consisted as required by relevant local and continued on promising to indigenous groups are required. In a specific Consultation is completed during licence processing to start the sites. Sami representatives were invited, but no participants or enquires were presented. If 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 were presented. If the extensive communicated during the application processing to start the sites. Sami representatives were invi	Instruction to Clients and CABs on Criterion 7.2 - Traditional Territorion fedigenous groups. The historion for diagenous groups the readitional Territorion fedigenous groups. The historion for diagenous groups have a defined legal status excepting to facility and indigenous groups. The historion for the Rights of indigenous groups have a defined legal status excepting to facility and indigenous groups. The historion for the Rights of indigenous standards of managements and indigenous groups are defined legal status excepting to facility in the facility of the facilit

	Criterion 7.3 Access to resources						
		Compliance Cri					
7.3.1	Requirement: None	 a) The resources that are vital for community are known by the site. It was communicated of b) The community approval for resources was done during operation application processing c) The extensive communication is completed during licence processing and initial certification and time limitations. 	to start the sites.	Compliant			
Footnote	[135] Vital community resources can include freshwater,	land or other natural resources that communities rely on for their livelihood. If a farm site w Dialogue standard		resource, this	would be unacceptable	e under the	
7.3.2	Requirement: Yes	a) It is communicated during the application processing to start the sites.b) The extensive communication is completed during licence processing and initial certificat and time limitations.	ion stage. No inquiries received. The interview was not organised due to logistics	Compliant			
Footnote	[136] The SAD SC proposes this approach to addressing	INDICATORS AND STANDARDS FOR SMOLT Is molt suppliers to demonstrate compliance with the following standards. The requirements at In addition, specific standards are applied to open systems (net pens), and to closed and standards and social performance during the smolt phase of production. In the medium oliers to generate the necessary documentation to demonstrate compliance with the standards to product to principle 1.	re, in general, a subset of the standards in Principles 1 through 7, focusing on the inemi-closed systems (recirculation and flow-through). [136] In term, the SC anticipates a system to audit smolt production facilities on site. In the	e meantime, fa			
		Standards related to Principle 1	Auditor Evaluation (Paguired CAP Actions)		T T		
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). 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.	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			
8.2	Indicator: Compliance with labor laws and regulations Requirement: Yes Applicability: All Smolt Producers	 a. Obtain declarations from smolt suppliers affirming compliance with labor laws and regulations. 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) 	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			

		Standards related to Principle 2			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
		Note: If the smolt facility has previously undertaken an independent assessment of biodivers obtain and use such documents as evidence to demonstrate compliance with Indicator 8.3 as			
	potential impacts on biodiversity and nearby ecosystems	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.			
8.3	Requirement: Yes Applicability: All Smolt Producers		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	

		Instruction to Clients for Indicator 8.4 - Calculating Total Phosphorus Released per Ton of Farms must confirm that each of their smolt suppliers complies with the requirement of indiproduction facility can release into the environment per metric ton (mt) of fish produced over phosphorus released is made using a "mass balance" approach. Detailed instructions and for If applicable, farms may take account of any physical removals of phosphorus in the form of the smolt supplier has records showing the total quantity of sludge removed from site over the supplier determined phosphorus concentration (% P) in removed sludge by sampling as the sludge was properly disposed off site and in accordance with the farm's biosolid management.	icator 8.4. This specifies the maximum amount of phosphorus that a smolt er a 12-month period. The requirement is set at 4 kg/mt. The calculation of total rmulas are given in Appendix VIII-1. sludge provided there is evidence to show: The relevant time period; and 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	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		
8.4	released into the environment per metric ton (mt) of fish produced over a 12-month period (see Appendix VIII-1) Requirement: 4 kg/t of fish produced over a 12-month	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.	 b) Values for different feed types delivered from feed suppliers were seen and verified. c) 6131.9 kg total amount of phosphorus in feed 		
	period Applicability: All Smolt Producers	d. Obtain from smolt suppliers records for stocking, harvest and mortality which are sufficient to calculate the amount of biomass produced (formula in Appendix VIII-1) during the past 12 months.	d) Records for stocking, harvest and mortality which are sufficient to calculate the amount of biomass produced are availabl Dyping:365657 kg biomass production.	Compliant	
		e. Calculate the amount of phosphorus in fish biomass produced (result from 8.4d) using the formula in Appendix VIII-1.	e) Calculations are correct. 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. 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.	f) No sludge produced/removed 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.				
ļ	Indicator: If a non-native species is being produced, the	b. Provide the farm with documentary evidence that the non-native species was widely commercially produced in the area before publication of the ASC Salmon Standard. (See definition of area under 3.2.1).				
8.5	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.	Salma salar is nativo to region	Compliant		
8.3	Requirement: Yes [137] Applicability: All Smolt Producers except as noted in [137]	Salmo salar is native to region. 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:	Compliant			
		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 efform the wild be appeared by the wild be a substant the wild by efform the wild be a substant the wild by efform the wild by efform the wild be a substant to the w		s of reared spe	cimens or biological ma	aterial that
		a. Obtain documentary evidence to show that smolt suppliers maintained monitoring records of all incidences of confirmed or suspected escapes, specifying date, cause, and estimated number of escapees.	a) No escaped according to internal statement. Internal Risk Assessment with			
	Indicator: Maximum number of escapees [138] in the most recent production cycle	b. Using smolt supplier records from 8.6a, determine the total number of fish that escaped. Verify that there were fewer than 300 escapees from the smolt production facility in the most recent production cycle.	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 overviw (https://www.fiskeridir.no/)			
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]).	c) Internal smolt supplier. All records in Fish Talk	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.	d) Internal Risk Assessment/contingency plan with instruction for registration and reporting. No incident reported. Verified by Fisheries Directorate escape incidents overviw (https://www.fiskeridir.no/)			
Footnote		[138] Farms shall report all escapes; the total aggregated number of esca	apees per production cycle must be less than 300 fish.			
Footnote		an escape event that is clearly documented as being outside of the farm's control. Only one sor certification. The farmer must demonstrate that there was no reasonable way to predict the waterways are not intended to be covere	e events that caused the episode. Extreme weather (e.g., 100-year storms) or acc			

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8.7	<pre>Indicator: Accuracy [140] of the counting technology or counting method used for calculating the number of fish Requirement: ≥98%</pre>	a. 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 an	d through common estimates of error for any hand counts.		<u> </u>	
		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 (see Appendix V subsection 1 for	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	guidance and required components of the records and assessment)	tons (mt) produced during the last year.	b, c, d) Fuel: 364778830,968 kJ Electricity 8050557718,8 kJ.			
	Requirement: Yes, measured in kilojoule/mt fish/production cycle Applicability: All Smolt Producers	d. Confirm that the smolt supplier used results from 8.9b and 8.9c to calculate energy	Total 8415336549,76 kJ. Biomass produced: 328.4 mt Total energy per mt biomass: 25625263,54 kJ/mt	Compliant		
		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.	e) Records OK in excel. Continuous evaluation.			

	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.	Scope 1: emission from Fuel: 17727,43 kg CO2 Scope 2: emission from electricity: 250635,74 kg CO2 d) CO2 used		
vidence of an annual GHG assessment (See Appendix V, are best suited to the supplier's operation. Confirm that the supplier do of the emissions factors.	are best suited to the supplier's operation. Confirm that the supplier documents the source		Compliant	
Applicability: All Smolt Producers	that the smolt suppliers specify the Global Warming Potential (GWP) used and its source.			
	e. Obtain evidence to show that the smolt supplier has undergone a GHG assessment in compliance with requirements Appendix V-1 at least annually.			
[141] For the purposes of this standard,	, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide (CO_2) ; methan	e (CH ₄); nitrous oxide (N2O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs);	and sulphur h	exafluoride (SF ₆).
		standards and records as outlined in Appendix V.		
		And the reference of CARA discussion		
	Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
Indicator: Evidence of a fish health management plan,	a. Obtain a copy of the supplier's fish health management plan for the identification and monitoring of fish disease and parasites.			
identification and monitoring of fish diseases 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 (fish health manager) dt 26.08.2019.	Compliant	
1	· · · · · · · · · · · · · · · · · · ·			
	emissions [142] at the smolt production facility and evidence of an annual GHG assessment (See Appendix V, subsection 1) Requirement: Yes Applicability: All Smolt Producers [141] For the purposes of this standard, approved by the designated veterinarian, for the identification and monitoring of fish diseases and parasites Requirement: Yes	a. Obtain records of greenhouse gas emissions from the smolt supplier's facility. b. Confirm that, on at least an annual basis, the smolt supplier calculates all scope 1 and scope 2 GHG emissions [142] at the smolt production facility and evidence of an annual GHG assessment (See Appendix V, subsection 1) Requirement: Yes Applicability: All Smolt Producers Applicability: All Smolt Producers Applicability: All Smolt Producers Description: A Descrip	a. Obtain records of greenhouse gas emissions from the smolt supplier's facility. 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. 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 emission from Fuel: 17727,43 kg CO2 Scope 2: emission from Fuel: 17727,43 kg CO2 Scope 2: emission from Fuel: 17727,43 kg CO2 Scope 2: emission from electricity; 250635,74 kg CO2 did CO2 used d. For GHG calculations involving conversion of non-CO2 gases to CO2 equivalents, confirm that the smolt supplier specify the Global Warming Potential (GWP) used and its source. e. Obtain evidence to show that the smolt supplier has undergone a GHG assessment in compliance with requirements Appendix V-1 at least annually. [141] For the purposes of this standard, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide (CO); methane (CH,); nitrous oxide (N2O); hydrofluorocarbons (PFCs); perfluorocarbons (PFCs); Standards and records as outlined in Appendix V. Standards related to Principle 3 Auditor Evaluation (Required CAB Actions): a. Obtain a copy of the supplier's fish health management plan, approved by the designated veterinarian, for the designated veterinarian, for the calculations and monitoring of fish diseases and parasites. Bequirement: Yes b. Keep documentary evidence to show that the smolt supplier's health plans were approved by the supplier's seginated veterinarian.	Indicator: Records of greenhouse gas (GHG [141]) emissions [142] at the smolt production facility and evidence of an annual GHG assessment (See Appendix V-1, subsection 1) Requirement: Yes Applicability: All Smolt Producers d. For GHG calculations, confirm that the smolt supplier selects the emission factors which are bus suited to the supplier's operation. Confirm that the supplier documents the source of the emissions factors. Compliant d. For GHG calculations, confirm that the supplier documents the source of the emission factors. d. For GHG calculations involving conversion of non-CO2 gases to CO2 equivalents, confirm that the smolt supplier's specify the Global Warning Potential (GWP) used and its source e. Obtain evidence to show that the smolt supplier has undergone a GHG assessment in compliance with requirements Appendix V-1 at least annually. [141] For the purposes of this standard. GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide (CO ₂); methane (CH ₄); nitrous oxide (N2O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and sulphur h [142] GHG emissions must be recorded using recognized methods, standards and records as outlined in Appendix V- Standards related to Pranciple 5 Compliant General Clinical Actions]: Auditor Evaluation (Required CAB Actions): a. Obtain a copy of the supplier's fish health management plan, approved by the designated veterinarian, for the identification and monitoring of fish diseases and parasites. Bequirement: Yes b. Keep documentary evidence to show that the smolt supplier's health plans were approved by the supplier's seignated veterinarian (Pish health management plan, paperoved by the supplier's designated veterinarian, for the identification and parasite diagnostics and control measures. Approved and signed by veterinarian (Pish health management) and parasite diagnostics and control measures. Approved and signed by veterinarian (Pish health management) and parasite diagnostics and control measures. Approved and sign

8.12	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% Applicability: All Smolt Producers	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. b. Maintain a list of diseases for which effective vaccines exist for the region, developed by the farm veterinarian and supported by scientific evidence. c. Obtain from the smolt supplier(s) a declaration detailing the vaccines the fish received. 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.	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. b) In fish health plan and CV Ttype of disease and control monitoring strategies, vaccines/pathogens type/product name detailed c) In smolt CV transfered to sea and Fish Talk with dates and type for smolts for site, 100% vaccination is a legal requirement controlled by NFSA. d) 100% vaccinated according to national legislation. Verified in smolt CV and Fishtalk. Verified towards registrations in FHP / CV / Fishtalk. Internal supplier: All fish vaccinated with vaccine type AJ-micro-6. in addition, smolts from Laksefjord were vaccinated with Alpha Dip ERM Salar and smolts from Akvafarm were vaccinated with Alpha jet 6-2.	Compliant		
Footnote	[143] The farm's designated veterinarian is respon	sible for undertaking and providing written documentation of the analysis of the diseases that demonstrate to the auditor that this decision is		III determine w	hich vaccinations to us	e and
	Indicator: Percentage of smolt groups [144] tested for	The farm is responsible for developing and maintaining a list of diseases of regional concern	vater (and for which seawater fish-to-fish transmission is a concern). criteria and publicly available information, which diseases should be tested for. T	his analysis sha	ıll include an evaluatio	n of whether
8.13	select diseases of regional concern prior to entering the grow-out phase on farm Requirement: 100% Applicability: All Smolt Producers	Note: A "smolt group" is defined as a population that shares disease risk, in 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.	a) Risk based testing regime.VHP and Veterinary visits: lists and documented according to local VHP predetermined sampling and visits regime defined in VHP plan. Sceeining programme incl. Broodfish.	g disease agen	ts for each group.	
		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	fish transmission is a concern) but originating in freshwat	e risk, including environment, husbandry and host factors that might contribute to sharing dister should be on the list of diseases tested. The designated veterinarian to the smolt farm is real pathogen carrier state in fresh water is deemed to have a negative impact on the grow-out	equired to evaluate, based on scientific criteria and publicly available information,	which diseases	should be tested for.	This analysis

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	
		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.	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.		
8.15	Indicator: Allowance for use of therapeutic treatments that include antibiotics or chemicals that are banned [145] in any of the primary salmon producing or importing countries [146] Requirement: Yes Applicability: All Smolt Producers	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.	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 en	tity because of concerns around the substance.		
Footnote		[146] For purposes of this standard, those countries are Norway, the UK	, Canada, Chile, the United States, Japan and France.		

8.16	<pre>Indicator: Number of treatments of antibiotics over the most recent production cycle Requirement: ≤ 3 Applicability: All Smolt Producers</pre>	 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	
		a. Provide to smolt supplier(s) a current version of the WHO list of antimicrobials critically and highly important for human health [147].			
		b. Inform smolt supplier that the antibiotics on the WHO list (8.17a) cannot be used on fish sold to a farm with ASC certification.	a, b, c) Internal supplier. List (allowed and banned substances - against WHO		
8.17	Requirement: None [148] Applicability: All Smolt Producers	c. Compare smolt supplier's records for antibiotic usage (8.14, 8.15a) with the WHO list (8.17a) to confirm that no antibiotics listed as critically important for human medicine by the WHO were used on fish purchased by the farm.	critical list. No AB used. Seen fish CV with all treatments identifed.	Compliant	
Footnote	[147] The 3	Brd edition of the WHO list of critically and highly important antimicrobials was released in 200	ond is available at: http://www.who.int/foodborne_disease/resistance/CIA_3.p	odf.	
Footnote		[148] If the antibiotic treatment is applied to only a portion of the pens on a farm site, fish fr	rom pens that did not receive treatment are still eligible for certification.		
		Note: see instructions for Indicator 5.4.	3 regarding evidence of compliance with the OIE Aquatic Animal Health Code.		
		a. Provide the smolt supplier with a current version of the OIE Aquatic Animal Health Code (or inform the supplier how to access it from the internet).			
	Indicator: Evidence of compliance [149] with the OIE Aquatic Animal Health Code [150]		1		
8.18	Aquatic Animal Health Code [150]	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		
8.18	•	policies and procedures that ensure that its smolt production practices are compliant with		Compliant	
8.18 Footnote	Aquatic Animal Health Code [150] Requirement: Yes Applicability: All Smolt Producers [149] Compliance is defined as farm practices consiste	policies and procedures that ensure that its smolt production practices are compliant with the OIE Aquatic Animal Health Code. 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	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	
	Aquatic Animal Health Code [150] Requirement: Yes Applicability: All Smolt Producers [149] Compliance is defined as farm practices consisted depopulating the infected site and implements.	policies and procedures that ensure that its smolt production practices are compliant with the OIE Aquatic Animal Health Code. 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.	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. of this standard, this includes an aggressive response to detection of an exotic OIE n. Exotic signifies not previously found in the area or had been fully eradicated (and the content of	Compliant	

	Standards related to Principle 6			
	Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
	of compliance with the labor standards under 6.1 to 6.11.		Compliant	
	·	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):		
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 consultations with an equivalent requirement. Farms are obligated to material agenda, minutes a supplier engaged in "regular" - the supplier's consultations were effective	Itation and engagement with community representatives and organizations. Under intain evidence that is sufficient to show their suppliers remain in full compliance nutes, report) and will substantiate the following: consultations with the local community at least twice every year (bi-annually); (e.g. using participatory Social Impact Assessment (pSIA) or similar methods); and	e. Evidence shal	
Requirement: Yes		a) The invitation was sent 2017-09-14 by e-mail to Steigen commune and other		
	community angagement complied with requirements	The meeting was organised on 2017-09-26. The 6 participants in the meeting. b) Consultations have included main points required by the standard. No	Compliant	
		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	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.	indigenous groups or aboriginal people are present in neighbourhood.		
Applicability: All Smolt Producers	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	b) It was communicated during the application processing to start the sites. No traditional and indigenous groups are involved. No traditional and indigenous groups are involved.	Compliant	
	Indicator: Evidence of company-level policies and procedures in line with the labor standards under 6.1 to 6.11 Requirement: Yes Applicability: All Smolt Producers Indicator: Evidence of regular consultation and engagement with community representatives and organizations Requirement: Yes Applicability: All Smolt Producers Indicator: Evidence of a policy for the presentation, treatment and resolution of complaints by community stakeholders and organizations Requirement: Yes Applicability: All Smolt Producers Indicator: Where relevant, evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations Requirement: Yes Applicability: All Smolt Producers	of compliance with the labor standards under 6.1 to 6.11 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. Standards related to Principle 7 Compliance Criteria (Required Client Actions): Instruction to Clients for Indicator: Farms must comply with indicator 7.1.1 which requires that farms engage in regular consultations and engagement with community representatives and organizations Requirement: Yes Applicability: All Smolt Producers Indicator: Evidence of a policy for the presentation, treatment and resolution of compliants by community stakeholders and organizations B. Review documentation from 8.20a to verify that the smolt supplier's consultations and community engagement complied with requirements. Indicator: Evidence of a policy for the presentation, treatment and resolution of compliants by community and community engagement complied with requirements. Indicator: Evidence of a policy for the presentation, treatment and resolution of compliants by community engagement complied with requirements. Indicator: Evidence of a policy for the presentation, treatment and resolution of compliants by community engagement complied with requirements. Indicator: Evidence of a policy for the presentation, treatment and resolution of compliants by community engagement complied with requirements. Indicator: Evidence of a policy for the presentation, treatment and resolution of compliants by community engagement complied with requirements. Indicator: Evidence of a policy for the presentation, treatment and resolution of compliants by community engagement complied with requirements. Indicator: Evidence of a policy for the presentation, treatment and resolution of compliants by community engagement complied with requirements. Indicator: Evidence of a policy for the presentation, treatment and resolution of compliants by	a plicability: All Smolt Producers Producers Producers	Indicator: Evidence of rongenia percentage in the labor standards under 6.1 to 6.11 Sequirement: Yes Applicability: All Smolt Producers Compliance Chiefe and procedures are in compliance with the requirements of labor standards under 6.1 to 6.11 Sequirement: Yes Compliance Chiefe (Required Client Actions): Sandauds related to Principle 2 Compliant Soundards related to Principle 2 Auditor Evaluation (Required CAB Actions): Auditor Evaluation (Required CAB Actions): Compliant Soundards related to Principle 2 Auditor Evaluation (Required CAB Actions): Auditor Evaluation (Require

8.23	Indicator: Where relevant, evidence that the farm has undertaken proactive consultation with indigenous communities Requirement: Yes	 a. See results of 8.22a (above) to determine whether the requirements of 8.23 apply to the smolt supplier. b. Where relevant, obtain documentary evidence that smolt suppliers undertake proactive consultations with indigenous communities. 	indigenous groups or aboriginal people are present in neighbourhood. Based on 8.2.2 a) the requirements of 8.2.3. do not apply. b) No consultation is applicable.			
		ADDITIONAL REQUIREMENTS FOR OPEN (NET-PEN) PR In addition to the requirements above, if the smolt is produced in an open system, ex				
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 si	ADDITIONAL REQUIREMENTS FOR SEMI-CLOSED AND CLOSE molt is produced in a closed or semi-closed system (flow through or recirculation) that dischar				
	Indicator: Minimum oxygen saturation in the outflow (methodology in Appendix VIII-2)	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				
8.27	closed i roudellon systems	confirm that no measurements fell below 60% saturation. 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).		N/A		
Footnote	[156] A single oxygen	reading below 60 percent would require daily continuous monitoring with an electronic prob		on at all times.		
Footnote	[157] See Appendix VI for transparency requirements for 8.33.					

	Indicator: Macro-invertebrate surveys downstream from the farm's effluent discharge demonstrate benthic	a. Obtain documentation from smolt supplier(s) showing the results of macro-invertebrate surveys.	irm that the surveys followed the prescribed NA irm the survey results show that benthic health		
8.28	health that is similar or better than surveys upstream from the discharge (methodology in Appendix VIII-3) Requirement: Yes	b. Review supplier documents (8.34a) to confirm that the surveys followed the prescribed methodology (Appendix VIII-3).			
	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.			
		c. Obtain a declaration from smolt supplier stating that no biosolids were discharged into natural water bodies in the past 12 months.	NA .	N/A	
		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	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-SA1-1	2.2.1	Minor		Data presented by the contact peron at Cermaq	04-02-2020	Closed		equipment which measures continously as long as internettsignal is running. The site Elvevika is located rural and have had troubles with the internett in some periods. This has led to the equipment not working. While equipment was not working, the employees are supposed to use a handhold oxygen measurer and measure two times a day. This was done very sporadically due to bad communication between site	conformaties through our quality system reporting bad internet reception, and the internet supplier have visited several times trying to resolve the issue. The issue is now resolved, but it took some time. The supplier have also agreed to install some extra recievers in the area to improve the internet reception. The site manager is aware that they have not followed procedures saying they should measure oxygen regularly and that the equipment was not cleaned before use, this is now clarified and informed to all employees in case reception is lost again.	The root cause and action plan is approved. The evidence of the implementation the action plan was verified during the audit as a good control on oxygen data was in place.						
2020-SA1-2	2.3.1	Minor	Percentage of fines are not meeting the ASC requirements. From 03.08.2019 til now the values are above 1%. The procedure was not followed to communicate with the feed suppliers when the values are higher than the requirements.	Data presented by Cermaq and interview with the site manager	04-02-2020	Open			The site manager has printed out several copys of the procedure and has planned a meeting with all employees the next time they are changing shifts (02.03.20). They are going through the procedure to make sure everyone know what to do if the results from feed testing (dust) is over 1% again. Previous testresults over 1% is now registered as a non-conformaty in Cermaqs quality system.	The action plan and root cause are approved. The evidence of the implementation of the action plan will be followed up in next audit cycle.						

Summary of findings - ASC Salmon Standard 1/2



020-SA1-3 3.1.7	.7 Ma	level of lice exceeded the limit during the sensitive period in 2019. https://www.barentswatch.no/fiske helse/locality/32797/2019/26	04-02-2020 Closed	The reason for the high lice level in the sensitive period in 2019 was due to the outbreak of the algae last spring. We had just started treatment on Elvevika when they had to terminate the operation and send the well boat to Nordland to help with the situation. Mattilsynet was of course informed of this decision. Links: map http://algeinfo.imrand weekly reports https://algestatus.hi.no/ukest Algae blooming considered in risk assessments and continge plan to ensure better handling situation and its less likely to a other operations (such as deloced in the sensitive actions done to prevent this from happening a national surveillance of increaling an antional surveillance of increaling an antional surveillance of increaling an antional surveillance of increaling blooming. Based on free measures we are able to tell if blooming of algae is getting of the limit of what the fish can be of the limit of what the limit of what the fish can be of the limit of what the	again is evaluated and evaluated and found effective as the the level of lice dose to dropped down significantly. The NC were considered as closed. The significant of the the the the level of lice dropped down and the significant of the the the level of lice dropped down as closed.	
020-SA1-4 6.5.6	.6 Mir	The report from a diving on 17-06-2019 on cage 2 was seen. Howevere, the name of the diving company was missining in the report. Interview with the site manager on 06-02-2020	06-02-2020 Closed	We always dive before bigger operations to make sure no escapes happen, the divers were ordered to do the diving operation before the wellboat arrived. When the diviers originally ordered arrived, they were too tired from the travel and had to sleep before diving. The site therefore chose to call another diving company which were able to do the diving that same night. During the diving operation, the staff from the site were busy with clearing the other pins for the operation and the divers left before getting the report signed off by the responsible at the site.	t approved. The evidence of the	

Summary of findings - ASC Salmon Standard



ASC Audit Report - Traceablity

10	Traceability Factor	Description of risk factor if present.	Describe any traceability, segregation, or other systems in place to manage the risk.
	The possibility of mixing or substitution of certified and non-certified product, including product of the same or similar appearance or species, produced within the same operation.	NA	No risk of substitution of certified with non-certified product within the unit of certification as all salmon in the farm is within the scope of the ASC Salmon Standard audit.
	The possibility of mixing or substitution of certified and non-certified product, including product of the same or similar appearance or species, present during production, harvest, transport, storage, or processing activities.	NA	No risk of substitution of certified with non-certified product within the unit of certification as all salmon in the farm is within the scope of the ASC Salmon Standard audit. After harvest the fish are covered by ASC CoC.
	The possibility of subcontractors being used to handle, transport, store, or process certified products.	NA	They have subcontracted wellboats for transporting live fish to a MSC-COC certicified harvest/processing plant. Wellboats are part of the ASC COC certificate of the 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.	NA	No other possibility for mixing products.



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

Number of sites included in the unit of certification

Owned by client	Subcontracted by client
33 (Norway)	0
1	0

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

Site name(s)

Reason(s)

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

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 are; 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.	NA see 10.6.1
10.6.3 The point from which chain of custody is required to begin	From this point the ASC Salmon Standard certificate stops (after harvest) the ASC CoC certificate takes over.
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

the operation against the specific elements in the standard and guidance documents

12.1 A report of the results of the audit of 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.

3 minor NCs (2.2.1, 2.3.1 and 6.5.6) and 1 major NC (3.1.7) were raised.

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

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 Elvevika site has the capacity to meet the requirements of ASC standard 1.3 July 2019.

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123 In cases where BEIA or PSIA is available, it shall be added in full to the audit report. IF these documents are not in English, then a synopsis in English shall be added to the report.	Not applicable.
13 Decision	
13.1 Has a certificate been issued? (yes/no)	Yes
13.2 The Eligiblity Date (if applicable)	NA
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.	Issue date: 30-01-2019, Expiry date: 29-01-2022
13.4.2 The scope of the certificate	Production of Atlantic salmon (Salmo salar).

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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 subject to the decision are to be subject to the capacitate decision are to be subject to the capacitate decision are to be subject to the capacitate decision decis

14 Surveillence

veillence	
14.1 Next planned Surveillance	
14.1.1 Planned date	feb-21
14.1.2 Planned site	Elvevika
14.2 Next audit type	
14.2.1 Surveillence 1	
14.2.2 Surveillance 2	X
14.2.3	
Re-certification	
14.2.4	
Other (specify type)	

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