

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	18-02-2020
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@bureauveritas.com
PDF 1.3.5 Phone number	0045 7731 1100
PDF 1.3.6 Other	www.bureauveritas.dk



PDF 1.4 ASC Name of Client

PDF 1.4.1 Name of the Client	Cermaq Norway AS
PDF 1.4.1.a Name of the unit of certification	Svartfjell 11312
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)
Svartfjell 11312	N: 67.940050	Salmon (Salmo Salar)	Owned	31-03-2020 - 04-04-	In harvest
	E: 15.503276	In scope		2020	
				Surveillance 2	



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 1.3	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
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 input.	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 Nordland Fylkeskommune Local Municipality Invitation to participate in the audit and submit input. The week before audit Sending e-mail before Audit Nordland Fylkes Invitation to participate in the audit and submit input. Steigen Fiskarlag V/Jon Vegar Strømsnes 8285 Leines Invitation to participate in the audit and submit input. The week before audit Sending e-mail before Audit The week before audit Sending e-mail before Audit					
Fylkeskommune Local Municipality Invitation to participate in the audit and submit input. The week before audit Sending e-mail before Audit Fylkesmannen i Nordland Reginonal authority Invitation to participate in the audit and submit input. The week before audit Sending e-mail before Audit Sending e-mail before Audit The week before audit Sending e-mail before Audit Nordland Fylkes Local Fishermens` Invitation to participate in the audit and submit input. The week before audit Sending e-mail before Audit Steigen Fiskarlag V/Jon Vegar Strømsnes 8285 Leines Steigen Kystfiskarlag avd Steigen Kystfiskarlag avd Steigen V/Ståle Kjelstrup Association The week before audit Sending e-mail before Audit The week before audit Sending e-mail before Audit The week before audit Sending e-mail before Audit	Miljødirektoratet	Authorities	·	The week before audit	=
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Fiskarlag	_ *	Reginonal authority		The week before audit	
Vegar Strømsnes 8285 Association the audit and submit input. before Audit Leines Steigen Kystfiskarlag avd Local Fishermens` Invitation to participate in Steigen v/Ståle Kjelstrup Association the audit and submit input. The week before audit Sending e-mail before Audit	•			The week before audit	-
Steigen v/Ståle Kjelstrup Association the audit and submit input. before Audit	Vegar Strømsnes 8285		·	The week before audit	_
	Steigen v/Ståle Kjelstrup		·	The week before audit	=



Steigen Jeger og fisker forening v/Marius Falck- Folland	Local Fishermens` Association	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit
Reineier Mattis Andre Eira	Local interest organisation	Invitation to participate in the audit and submit input.	The week before audit	Sending e-mail before Audit

PDF 1.9 Proposed Timeline

PDF 1.9.1	Contract Signed:	29-11-2018
PDF 1.9.2	Start of audit:	31-03-2020
PDF 1.9.3	Onsite Audit(s):	31-03-2020 - 04-04-2020 Remote audit
PDF 1.9.4	Determination/Decision:	A Certificate was issued 18-01-2019. 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 only 4 minor non-conformities 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 Reference
PDF 1.10.1	Lead Auditor	Mohammad Jasour	
PDF 1.10.2	Team member	Trygve Helle	
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 Norway AS
1.2 Report Title [e.g. Public Draft Certification Report/ Final certification report/Surveillance report]	03-04-2020 Cermaq Svartfjell ASC SA2 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: Shahram Zadeh
1.6 Client's Contact person: Name and Title	Silje Ramsvatn, Sustainability manager
1.7 Date	Date of audit 03-04-2020. Date of report writing: 16-04-2020
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

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

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

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

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



4 Summary

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

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

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. Due to the outbreak of the virus Covid-19, the audit was conducted remotely in accordance with ASC and BV procedures.

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

The unit of certification is the entire Svartfjell seafarm, site number 11312. Svartfjell is an ongrowing farm for Atlantic Salmon from smolt and until the salmon is ready for slaughtering. The farm is located, Sagfjorden waterbody in Hamarøy and Steigen municipality in Nordland County. The production system is based on 8 cages with the size of 160 m. The MTB is 5500 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 2 4.4 that apply in the list)

4.4.1 Number of sites included in the unit of certification Initial audit - 10/2017 Surveillance audit 1 - 02/2019 Surveillance audit 2 - 04/2020 Recertification audit - mm/ yyyy

Owned by client	Subcontracted by client
1	
1	
1	



	4.5	A summary of the major findings	4 minor NCs were raised on the indicators 3.1.1, 5.1.6, 5.2.8, and 6.7.2
	4.6	The Audit determination	Auditor recommends ongoing certification based on the result of the surveillance 2 audit.
5 CAB (Contact	Information	
	5.1	CAB Name	Bureau Veritas Certification
	5.2	CAB Mailing Address	Oldenborggade 25-31, 7000 Fredericia, Denmark
	5.3	Email Address	asc.farm@bureauveritas.com
	5.4	Other Contact Information	www.bureauveritas.dk
6 Backg	ground o	on the Applicant	
6.1	(Form	mation on the Public Disclosure Form a 3) except 1.2-1.3. All information and as necessary to reflect the audit as aucted.	
6.2	intial a	cription of the unit of certification (for udit) / changes, if any (for surveillance and fication audits)	Svartfjell is a conventional floating cage salmon farm. The 8 production cages are circular floating plastic rings with the dimension 160 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.
6.3		certifications currently held by the unit tification	GlobalGAP



Other certification(s) obtained by the UoC before this audit	
Estimated annual production volumes of the unit of certification of the <u>current</u> year	6000 mt
<u>Actual</u> annual production volumes of the unit of certification of the <u>previous</u> year (mandatory for surveillance and recertification audits)	5392 mt
Production system(s) employed within the unit of certification (select one or more in the list)	Floating net-pens/cages
Number of employees working at the unit of certification (see notes in comment to this cell)	7 permanent employees plus site manager.
Size, and/or number of ponds, pens (if multi site, per site)	8 circular plasticcages with the dimension 160 m circumference (volume: 46860 m3)
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 (in English and Latin names)	Atlantic Salmon (Salmo salar)
	Estimated annual production volumes of the unit of certification of the <u>current</u> year Actual annual production volumes of the unit of certification of the <u>previous</u> year (mandatory for surveillance and recertification audits) Production system(s) employed within the unit of certification (select one or more in the list) Number of employees working at the unit of certification (see notes in comment to this cell) Size, and/or number of ponds, pens (if multi site, per site) The Standard(s) against which the audit was conducted, including version number The species produced at the applicant farm



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 Svartfiell 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). All cages on site were audited remotely in accordance with the "ASC Policy for Audits during the COVID-19 Outbreak" (Version 18 March 2020), all principles and criteria of the ASC Salmon Standard (v1.3). The audit was performed through the use of the Microsoft Teams Application. Interviews were conducted via video calls with staff.

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

NA. The CoC starts when fish have left the cage onto the wellboat or slaughterboat. After this, the ASC CoC certificate of the harvest plant takes over of the certified fish.

7.5 Description of the receiving water body(ies).

The farm is located in municipality of Steigen, Hamarøy, in Nordland country. Sites receiving water-body is Sagfjorden. 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



8 Audit Plan

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

ASC Lead Auditor: Mohammad Jasour

Audit date: 03-04-2020 Draft report: 12/16-04-2020

NC reference clause

number

Reviewing the report: 27/7/2020 - Shahram Zadeh Approving the report: 17/8/2020 - Shahram Zadeh Certification decision: 17-08-2020 - Shahram Zadeh

Previous Audits (if applicable): 8.2

Standard

reference

Closing deadline - status - closing date of each NC

8.2.1 Initial audit - 10/2017

Surveillance audit 1 - 02/2019

Surveillance audit 2 - mm/ yyyy Recertification audit - mm/ yyyy Unannounced audit - mm/ yyyy NC close-out audit - mm/ yyyyy Scope extention audit mm/ yyyy

паппыст	reference	
	2.1.1, 2.1.2,	All closed.
	2.1.3, 2.3.1,	
	3.1.4, 6.2.2,	
	6.5.1, 6.5.6	
	3.4.4, 4.3.2,	Closed on 23-04-2019
	4.3.5, 4.4.2,	
	6.5.1, 6.9.2	



Audit plan as implemented including: 8.3

8.3.1 Desk R	eviews
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8.3.2 Onsite audits

8.3.3 Stakeholder interviews and Community meetings

8.3.4 Draft report sent to client

8.3.5 Draft report sent to ASC

8.3.6 Final report sent to Client and ASC

Dates	Locations
01-03-2020	Bureau Veritas Certification, Fredericia, Denmark
03-04-2020	Audit was performed remotely via Skype.
03-04-2020	No inputs from stakeholders received after submitted audit notifications or in audit process.
NA	NA
NA	NA
18-08-2020	Bureau Veritas Certification, Fredericia, Denmark

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

Silje Ramsvatn, Sustainability manager consulted or otherwise involved in the audit Elisabeth Faureng, Fish Health perssonel Nordland Solfrid Henriken, Hatchery coordinator Site manager with 6 employees



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

Name of sta (if permissi to make publ	ion given name	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 E5.1.i List of sites exempted from the scope of an initial audit and how they meet conditions in E5.1.i							
8.7 E5.1.1	.7 E5.1.1.i List of sites removed after the initial audit						
	 E5.2.2 Reason for the removal of sites from the certificate. 						
QQ	E5.4 Map of sites included in the unit of certification has been attached						
2 Q		allowing period included in the audit					

Audit report- ASC Salmon Standard v.1.3

Corresponds to 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 I							
	Indicator	Compliance Criteria (Use as guidance for audit only)	Audit evidence 1. Write down all audit evidence. Audit evidence (including evidence of conformity and nonconformity) should be recorded so that the audit can be repeated by a different audit team. 2. Replace explanitory text. 3. If you see any Compliance Criteria which is not listed below, please describe also in the cells below. A. Review compliance with applicable land and water use laws.	Evaluation (Per indicator, select one category in the drop-down menu)	Description of NC Provide an explanation of the reason(s) for the classification of any NCs or non- applicability	Value/ Metric Provide values - if applicable for the respective Indicator			
		a. Maintain digital or hard copies of applicable land and water use laws.	a) Electronic copies of laws, regulations and requirements with references to Lovdata with updates and electronic links in Intelex system. Covered by internal procedures in QMS sysyem, called Intelex. Strict monitored by relevant authorities on these issues. b) Approved operating plan for 2019-2020 from Fisheries Directorate dated 02-						
1.1.1	Indicator: Presence of documents demonstrating compliance with local and national regulations and requirements on land and water use Requirement: Yes Applicability: All	b. Maintain original (or legalised copies of) lease agreements, land titles, or concession permit on file as applicable.	c) Inspection from Mattilsynet (NFSA) on 15-02-2019. NCs on high mortality at stocking. The NC was closed on 04-03-2019. A comment from a stakeholder about high noise was recived by Fylkesmannen (County Governor). The comment was answered with a preventive action plan on 31-03-2020.						
		c. Keep records of inspections for compliance with national and local laws and regulations (if such inspections are legally required in the country of operation).		Compliant					
		d. Obtain permits and maps showing that the farm does not conflict with national preservation areas.							
	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.	a) Authorised auditor report/statement for organisation number 980211282, dt.01.07.2019 by Deloitte						
1.1.2	Requirement: Yes Applicability: All	b. Maintain copies of tax laws for jurisdiction(s) where company operates.	b) Lovdata access to updated versions in quality system Intelex c) Registered in Brønnøysund Register Center (Norwegian government agency)						
	Арр иса д инту: Аш	c. Register with national or local authorities as an "aquaculture activity".	with industry code of 03.211: Production of fish and shellfish in marine and coastal fish farming						

	I	Maintain copies of national labor codes and laws applicable to farm (scope is restricted to the farm sites within the unit certification.)				
1.1.3	Requirement: Yes		a) Lovdata access to updated versions in quality system Intelex b) No inspection from NLA (Arbeidstilsynet)	Compliant		
			a, b) Approved operating plan for 2019-2020 from Fisheries Directorate dated 02- 12-2019 with reference number of 19/14203. Discharge permit from Fylkesmannen i Nordland, date 18-12-2019. Discharge permit for 5500 MTB.			
1.1.4	Indicator: Presence of documents demonstrating compliance with regulations and permits concerning water quality impacts Requirement: Yes Applicability: All	b. Compile list of and comply with all discharge laws or regulations.	Marine and environmental impact assesmet (MOM-B and C-survey survey) are also performed by an acredited company for test 303 (sampling on sea sediments) once during the production period.	Compliant		
		c. Maintain records of monitoring and compliance with discharge laws and regulations as required.	c) MTB reported to government/ Altinn end of month (Last MTB reported on: 03/31/2020). Environmental reports and surveys reported to Altinn approximately 1 month after field sampling done and results available from contractor. Available in https://yggdrasil.fiskeridir.no/. No indications of non compliance.			

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

Criterion 2.1 Benthic biodiversity and benthic effects [1]

Footnote

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

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

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

		Note: Under Indicator 2.1.1, farms can choose to measure redox potential (Option #1) or sulph both threshold values.	nide concentration (Option #2). Farms do not have to demonstrate that they meet		
		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.	have been taken at 75% biomass. b) Soft bottom with stones and boulders on sand or shellsand c) Option 1 - redox d) see 2.1.1a e) The results show Redox ranging from 311-405 mV at 4 stations outside AZE. f) Redox potential. National regulations (NS 9410) g) Sent to ASC on 16-03-2020		
		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.		Compliant	
2.1.1	Indicator: Redox potential or [2] sulphide levels in sediment outside of the Allowable Zone of Effect (AZE) [3], following the sampling methodology outlined in Appendix I-1 Requirement: Redox potential > 0 mV or Sulphide ≤ 1,500 µMoI/L Applicability: All farms except as noted in [1]	c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard.			
		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).			311-405 mV
		e. For option #1, measure and record redox potential (mV) in sediment samples using an appropriate, nationally or internationally recognized testing method.			
		f. For option #2, measure and record sulphide concentration (μM) using an appropriate, nationally or internationally recognized testing method.			
		g. Submit test results to ASC as per Appendix VI at least once for each production cycle. If site has hard bottom and cannot complete tests, report this to ASC.			
Footnote		[2] Farm sites can choose whether to use redox or sulphide. Farm:	s do not have to demonstrate that they meet both.		

		Notes: - Under Indicator 2.1.2, farms can choose one of four measurements to show compliance with the faunal index Requirement: AMBI (Option #1); Shannon-Wiener Index (Option #2); BQI (Option #3); or ITI (Option #4). Farms do not have to demonstrate that they meet all four threshold values If a farm is exempt due to hard bottom benthos (see 2.1.1b), then 2.1.2 does not apply and this shall be noted in the audit report.				
		a. Prepare a map showing the AZE (30 m or site specific) and sediment collections stations (see 2.1.1).				
		b. Inform the CAB whether the farm chose option #1, #2, #3, or #4 to demonstrate compliance with the requirement.	a) Olex map and GPS coordinates with ASC sampling points. Site-specific			
	Indicator: Faunal index score indicating good [4] to high ecological quality in sediment outside the AZE, following the sampling methodology outlined in Appendix I-1 Requirement: AZTI Marine Biotic Index (AMBI [5]) score ≤ 3.3, or Shannon-Wiener Index score > 3, or Benthic Quality Index (BQI) score ≥ 15, or Infaunal Trophic Index (ITI) score ≥ 25 Applicability: All farms except as noted in [1]	c. Collect sediment samples in accordance with Appendix I-1 (see 2.1.1).	a) Olex map and drs coordinates with Asc sampling points, site-specific sampling regime (C-survey hybrid - ASC adapted). Modified C-survey according to NS9410 (Norwegian authorities and legislation requirement). Point adapted to bathymetric conditions. Performed by an acredited company for test 303 (sampling on sea sediments): Akvaplan-niva AS o on 02-10-2018. The samples	Compliant		
		d. For option #1, measure, calculate and record AZTI Marine Biotic Index [5] score of sediment samples using the required method.	have been taken at 75% biomass. b) #2 Shannon Wiener used c) Van Veen grab used according to site specific C-survey (NS9410) d) #2 Shannon Wiener used e) Results show that the Shannon Weinar ranging from 3.81 to 5.12 for the sampling stations outside AZE. t f) Shannon-Wiener Index score used g) Shannon-Wiener Index score used th (C-survey 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) Sent to ASC on 16-03-2020			
		e. For option #2, measure, calculate and record Shannon-Wiener Index score of sediment samples using the required method.				3.81 to 5.12
		f. For option #3, measure, calculate and record Benthic Quality Index (BQI) score of sediment samples using the required method.				
		g. For option #4, measure, calculate and record Infaunal Trophic Index (ITI) score of sediment samples using the required method.				
		h. Retain documentary evidence to show how scores were obtained. If samples were analyzed and index calculated by an independent laboratory, obtain copies of results.				
		i. Submit faunal index scores to ASC (Appendix VI) at least once for each production cycle.				
Footnote	[4] "Good" Ecological Quality Classifi	ication: The level of diversity and abundance of invertebrate taxa is slightly outside the range a	ssociated with the type-specific conditions. Most of the sensitive taxa of the type-sp	ecific commun	ities are present.	
Footnote		[5] http://www.azti.es/en/ambi-azti-m	arine-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 within the AZE, following the sampling methodology outlined in Appendix I-1 Requirement: ≥ 2 highly abundant [6] taxa that are not pollution indicator species Applicability: All farms except as noted in [1]	b. For sediment samples taken within the AZE, determine abundance and taxonomic	sampling regime (C-survey hybrid - ASC adapted). Modified C-survey according to NS9410 (Norwegian authortites and legislation requirement). Point adapted to bathymetric conditions. Performed by an acredited company for test 303 (sampling on sea sediments): Akvaplan-niva AS o on 02-10-2018. The samples have been taken at 75% biomass. c) Results show that the non polluter indicator species are compliant with ASC, having 9 species. d) C-survey 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.			
2.1.3		chacias		Compliant		9 Species
		d. Retain documentary evidence to show how taxa were identified and how counts were obtained. If samples were analyzed by an independent lab, obtain copies of results.				
		e. Submit counts of macrofaunal taxa to ASC (Appendix VI) at least once for each production cycle.	e) Sent to ASC on 16-03-2020			
Footnote		[6] Highly abundant: Greater than 100 organisms per square meter (or equally hig	h to reference site(s) if natural abundance is lower than this level).			
	Indicator: Definition of a site-specific AZE based on a	a. Undertake an analysis to determine the site-specific AZE and depositional pattern.				
2.1.4	robust and credible modelling system Requirement: Yes	b. Maintain records to show how the analysis (in 2.1.4a) is robust and credible based on modeling using a multi-parameter approach [7].	a, b, c) Site-specific sampling regime (C-survey - ASC adapted/Modified C-survey according to NS- 9410 (Norwegian Standard Authortites and legislation requirement) specified in NS-9410. Survey developed and performed by Akvaplanniva AS, an acredited company for test 303 (sampling on sea sediments)	Compliant		
	Applicability: All farms except as noted in [1]	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 AUTODEPOI	MOD modeling system is considered to be an example of a credible and robust system. The mod	lel must include a multi-parameter approach. Monitoring must be used to ground-t	ruth the AZE p	roposed through the mo	odel.

		Criterion 2.2 Water quality in and near the sit			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
Footnote		[8] See Appendix VI for transparency requiremer	ts for 2.2.1, 2.2.2, 2.2.3 and 2.2.5.		
	Indicator: Weekly average percent saturation [9] of dissolved oxygen (DO) [10] on farm, calculated following methodology in Appendix I-4 Requirement: ≥ 70% [11] Applicability: All farms except as noted in [11]	Instruction to Clients for Indicator 2.2.1 - Monitoring Average Weekly Percent Saturation of Appendix I-4 presents the required methodology that farms must follow for sampling the average as follows: - measurements may be taken with a handheld oxygen meter or equivalent chemical method; - equipment is calibrated according to manufacturer's recommendations; - measurements are taken at least twice daily: once in the morning (6 -9 am) and once in the salinity and temperature must also be measured when DO is sampled; - sampling should be done at 5 meters depth in water conditions that would be experienced be each week, all DO measurements are used in the calculation of a weekly average percent sat If monitoring deviates from prescribed sampling methodology, the farm shall provide the aud In limited and well-justified situations, farms may request that the CAB approve reduction of it Exception [see footnote 12] If a farm does not meet the minimum 70 percent weekly average saturation with a reference site. The reference site shall be at least 500 meters from the edge upwelling to the farm site and is not influenced by nutrient inputs from anthropogenic causes communities. For any such exceptions, the auditor shall fully document in the audit report ho Note 1: Percent saturation is the amount of oxygen dissolved in the water sample compared to salinity.	arge weekly percent saturation of dissolved oxygen (DO). Key points of the method afternoon (3-6 pm) as appropriate for the location and season; y fish (e.g. at the downstream edge of a net pen array): uration. Itor with a written justification (e.g. when samples are missed due to bad weather). Yo monitoring frequency to one sample per day. Itor with a written justification (e.g. when samples are missed due to bad weather). Yo monitoring frequency to one sample per day. It is a saturation requirement, the farm must demonstrate the consistency of percent of the net pen array, in a location that is understood to follow similar patterns in including aquaculture, agricultural runoff or nutrient releases from coastal with the farm has demonstrated consistency with the reference site.		
2.2.1		 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. b. Provide a written justification for any missed samples or deviations in sampling time. 	a) Continuos logging (AKVA log) of oxygen and temperature at 2 sampling stations at cages (additional reference station at barge). b) No missed data c) Seen record for the period 2019 (W1)-20 (W11) for the current generation d) No measurements below 70 % dissolved oxygen has been registered/observed. e) DO is measured by a manual oxygen metere if the DO level fromthe oxygen sensors installed in different depthes are not normal. Real time DO was monitored remotely.		
		c. Calculate weekly average percent saturation based on data.		Compliant	
		d. If any weekly average DO values are < 70%, or approaching that level, monitor and record DO at a reference site and compare to on-farm levels (see Instructions).			
		e. Arrange for auditor to witness DO monitoring and calibration while on site.	f) Sent to ASC on 16-03-2020		
		f. Submit results from monitoring of average weekly DO as per Appendix VI to ASC at least once per year.			
Footnote	[9] Percei	nt saturation: Percent saturation is the amount of oxygen dissolved in the water sample compa	red to the maximum amount that could be present at the same temperature and sa	linity.	
Footnote		[10] Averaged weekly from two daily measurement	ents (proposed at 6 am and 3 pm).		
Footnote		[11] An exception to this standard shall be made for farms that can demonst	rate 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 limits (2 mg/L DO). b) Sent to ASC on 16-03-2020	Compliant		
	Indicator: For jurisdictions that have national or regional coastal water quality targets [12], demonstration through	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 Sagfjorden			
2.2.3	[13] classified as having "good" or "very good" water quality [14] Requirement: Yes [15]	b. Compile a summary of relevant national or regional water quality targets and classifications, identifying the third-party responsible for the analysis and classification.	(ref. "vannportalen.no). Noldland Fylkeskommune authority, Steigen , Hamarøy muncipility") ecological conditions good -chemical condition good	Compliant		
Footnote	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. [12] Related to nutrients (e.g., N,	P. chlorophyll (A.)			
Footnote		[12] Netated to Hutherits (e.g., N,				
Footnote	[14] Classific	ations of "good" and "very good" are used in the EU Water Framework Directive. Equivalent cla		centable		
Footnote		monstrate the collection and responsible disposal of > 75% of solid nutrients as well as > 50% of			ndards 2.2.3 and 2.3	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	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.				
2.2.4	reference site, following methodology in Appendix I-5 Requirement: Consistency with reference site		NA: Se 2.2.3	N/A		
		b. Calibrate all equipment according to the manufacturer's recommendations.				
	Requirement: Consistency with reference site Applicability: All farms except as noted in [16]	c. Submit data on N and P to ASC as per Appendix VI at least once per year.				

2.2.5	Indicator: Demonstration of calculation of biochemical oxygen demand (BOD [17]) of the farm on a production cycle basis Requirement: Yes Applicability: All	Instruction to Clients for Indicator 2.2.5 - Calculating Biochemical Oxygen Demand Biochemical Oxygen Demand (BOD) can be calculated based on cumulative inputs of N and C t BOD = ((total N in feed – total N in fish)*4.57) + ((total C in feed – total C in fish)*2.67). • A farm may deduct N or C that is captured, filtered or absorbed through approaches such refers to harvested fish. In this case, farm must submit breakdown of N & C captured/filtered/ • Reference for calculation methodology: Boyd C. 2009. Estimating mechanical aeration ret the World Aquaculture Society Meeting; Sept 25-29, 2009; VeraCruz, Mexico. And: Global Aqu 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 understan Note 2: Farms may seek an exemption to Indicator 2.2.5 if: the farm collects BOD samples at Ia laboratory, and the farm can show that BOD monitoring results do not deviate significantly fro	a as IMTA or through direct collection of nutrient wasted. In this equation, "fish" (absorbed to ASC along with method used to estimate nutrient reduction. quirement in shrimp ponds from the oxygen demand of feed. In: Proceedings of laculture Performance Index BOD calculation methodology available at production cycle first undergoing certification. If it is the first audit for the farm, ding of the calculations.		
		a. Collect data throughout the course of the production cycle and calculate BOD according to formula in the instruction box.	a) Data is collected and calculations is done. BOD calculated to 1519.28 kg for previous complete cycle. Current production is on going. BOD = ((total N in feed: 349.30 – total N in fish: 161.76)*4.57) + ((total C in feed: 2944 – total C in fish: 2695.97)*2.67)	Compliant	1519.28 kg
Footnote	The state of the s	b. Submit calculated BOD as per Appendix VI to ASC for each production cycle. sh)*4.57) + ((total C in feed – total C in fish)*2.67). A farm may deduct N or C that is captured, fi Boyd C. 2009. Estimating mechanical aeration requirement in shrimp ponds from the oxygen de Performance Index BOD calculation methodology available at h	emand of feed. In: Proceedings of the World Aquaculture Society Meeting; Sept 25-2		
	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 Applicability: All	a. Document control systems in good culture and hygene that includes all appropriate elements.	a) Procedure "Hygienereglement - Matfisk" ID 127, Prosedure "Prosedyre for oppbevaring håndtering av kjemikalier og gasser", ID 473.		
2.2.6		b. Apply the systems ensuring that staff are aware, qualified and trained to proberly implement them.	b) There is an annual hygiene training for staff. Last HSE training was on 21-02- 2020	Compliant	

		Criterion 2.3 Nutrient release from pr	roduction				
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):				
		Note: The methodology given in Appendix I-2 is used to determin	e the fines (dust and small fragments) in finished product of fish feed which has a d	iameter of 3 mi	n or more.		
	Indicator: Percentage of fines [18] in the feed at point of entry to the farm [20] (calculated following methodology	a. Determine and document a schedule and location for quarterly testing of feed. If testing prior to delivery to farm site, document rationale behind not testing on site.	a) Percentage of fines according to requirements. Registrations and calculations				
2.3.1	in Appendix I-2) Requirement: < 1% by weight of the feed Applicability: All farms except as noted in [19]	b. If using a sieving machine, calibrate equipment according to manufacturer's recommendations.	ranging from 0,16 to 0,72%. Monthly testing according to internal QMS Intelex procedure "Prosedyre fôrmottak og lagring" ID 260 b) NA. Manual sieving	Compliant	0,16 to 0,72%		
		c. Conduct test according to detailed methodology in Appendix I-2 and record results for the pooled sample for each quarter. For first audits, farms must have test results from the last 3 months.	c) Percentage of fines and the methodology is according to the ASC requirements.				
Footnote	[18] Fines: Dust and fragments in the feed. Particles that s	eparate from feed with a diameter of 5 mm or less when sieved through a 1 mm sieve, or partic from feed bags after they are de		gh a 2.36 mm si	eve. To be measured at farm gate (e.g		
Footnote	[19] To be measured every quarter or every three months. Samples that are measured shall be chosen randomly. Feed may be sampled immediately prior to delivery to farm for sites with no feed storage where it is not possible to sample on farm. Closed production systems that can demonstrate the collection and responsible disposal of > 75% of solid nutrients and > 50% of dissolved nutrients (through biofiltration, settling and/or other technologies) are exempt.						
		Criterion 2.4 Interaction with critical or sensitive Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):	l			
		Note: If a farm has previously undertaken an independent assessment of biodiversity imp		nents as eviden	e to demonstrate compliance with		
	Indicator: Evidence of an assessment of the farm's potential impacts on biodiversity and nearby ecosystems that contains at a minimum the components outlined in Appendix I-3 Requirement: Yes Applicability: All	a. Perform (or contract to have performed) a documented assessment of the farm's potential impact on biodiversity and nearby ecosystems. The assessment must address all components outlined in Appendix I-3.	a-c) Impacts consequence assessment performed according to Appendix I-3. Document "Plan for miljø og biodiversitetsledelse". Cermaq Group AS annual corportae level environmental and sustainability report 2017. Internal impacts consequence assement performed using data from reaserch institutes and reports also considered in local impact from site/company performed for 2019." Procedure "Særskilt om ytre miljø og vedlegg				
2.4.1		b. If the assessment (2.4.1a) identifies potential impact(s) of the farm on biodiversity or nearby critical, sensitive or protected habitats or species, prepare plan to address those potential impacts.	til riskovurdering" ID 387 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 the risk of fish escape all main components of the farm are certified according to NS	Compliant			
		c. Keep records to show how the farm implements plan(s) from 2.4.1b to minimize potential impacts to critical or sensitive habitats and species.	9415.E:2009 and NYTEK. Fisheries directotate regulates/banned any open chemical treatments for the farms nearby the special/important ecosysyems. Map available in https://kart.fiskeridir.no/lusebehandling Also MOM-B and C-survey according to requirements in national legislation for evaluation of the farm impact on benthos				

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		Instruction to Clients for Indicator 2.4.2 - Exceptions to Requirements that Farms are not site. The following exceptions shall be made for Indicator 2.4.2:	ed within Protected Areas or HCVAs			
		Exception #1: For protected areas classified by the International Union for the Conservation o landscapes or for sustainable resource management).	of Nature (IUCN) as Category V or VI (these are areas preserved primarily for their			
		Exception #2: For HCVAs if the farm can demonstrate that its environmental impacts are comproof would be placed on the farm to demonstrate that it is not negatively impacting the core	•			
		Exception #3: For farms located in a protected area if it was designated as such after the farm environmental impacts are compatible with the conservation objectives of the protected area farm as a result of the formation/designation of the protected area. The burden of proof wou core reason an area has been protected.	and it is in compliance with any relevant conditions or regulations placed on the			
		Definitions Protected area: "A clearly defined geographical space, recognized, dedicated and managed th nature with associated ecosystem services and cultural values."	rough legal or other effective means, to achieve the long-term conservation of			
	Indicator: Allowance for the farm to be sited in a protected area [20] or High Conservation Value Areas [21] (HCVAs)	High Conservation Value Areas (HCVA): Natural habitats where conservation values are considerationally a multi-stakeholder approach that provides a systematic basis for identifying critical of management in order to ensure that these high conservation values are maintained or enhance	conservation values—both social and environmental—and for planning ecosystem			
	Requirement: None [22] 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. If the farm is <u>not</u> sited in a protected area or High Conservation Value Area as defined above, prepare a declaration attesting to this fact. In this case, the requirements of 2.4.2c-d do not apply.	a) Fiskeridirektoratet.no map and DN Naturbase map with all known protected areas defined site is not in conflict with protected areas - HCVAs or CAs. Also considered in Impacts consequence assement performed according to Appendix I-3. No overlaping with protected area was seen in the ASC GIS portal. b) Statement Cermaq Norway AS Biodiversity RA above dt 01.08.16, that sites			
		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.	are not operating in HCVAs. Cermaq Group AS annual corporate level environmental and sustainability report 2017 also refers to policy and approach for HCVA. c) NA d) NA	Compliant		
		d. If the farm is sited in a protected area or HCVA and the exceptions provided for Indicator 2.4.2 do not apply, then the farm does not comply with the requirement and is ineligible for ASC certification.				
Footnote	[20] Protected area: "A clearly defined geographical space	e, recognized, dedicated and managed through legal or other effective means, to achieve the lo Applying Protected Area Management Categories,		ues." Source: Du	udley, N. (Editor) (200	08), Guidelines for
Footnote		itats where conservation values are considered to be of outstanding significance or critical imp th social and environmental—and for planning ecosystem management in order to ensure that			is for identifying criti	cal conservation
Footnote	For HCVAs if the farm can demonstrate that its environn For farms located in a protected area if it was designate	[22] The following exceptions shall be a sclassified by the International Union for the Conservation of Nature (IUCN) as Category V or V nental impacts are compatible with the conservation objectives of the HCVA designation. The bas a HCVA. d as such after the farm was already in operation and provided the farm can demonstrate that a farm as a result of the formation/designation of the protected area. The burden of proof would	VI (these are areas preserved primarily for their landscapes or for sustainable resource ourden of proof would be placed on the farm to demonstrate that it is not negatively its environmental impacts are compatible with the conservation objectives of the present the present of the presen	impacting the o	core reason an area h	

		Criterion 2.5 Interaction with wildlife, including	ng predators [23]	
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):	
Footnote		[23] See Appendix VI for transparency require	ments 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. Compile documentary evidence to show that no ADDs or AHDs have been used by the farm	. a) No ADDs or AHDs have been used by the farm. The birdnets were the only predator contol devices. Verified via interview with the site workers.	Compliant
1	Indicator: Number of mortalities [25] of endangered or	a. Prepare a list of all predator control devices and their locations. 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 employees.	
2.5.2	red-listed [26] marine mammals or birds on the farm Requirement: 0 (zero) Applicability: All	c. Maintain a record of all mortalities of marine mammals and birds on the farm identifying the species, date, and apparent cause of death.	c) All mortalities are recorded. No mortality of endangered or red-listed marine mammals and birds in the farm. Internal records checked. d) Red list of endangered or red-listed marine mammals and birds in the area	Compliant
	Applications, All	d. Maintain an up-to-date list of endangered or red-listed marine mammals and birds in the area (see 2.4.1)	from "Norsk Rødliste for arter-2018" - fra Artsdatabanken". The species in the Red List are assigned to one of six categories, ranked by their risk of extinction	
Footnote		[25] Mortalities: Includes animals intentionally killed through lethal action as v	well as accidental deaths through entanglement or other means.	
Footnote		[26] Species listed as endangered or critically endangered by the	ne IUCN or on a national endangered species list.	
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2.5.3	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 2. Approval was given from a senior manager above the farm manager 3. Explicit permission was granted to take lethal action against the specific animal from the relevant regulatory authority Requirement: Yes [28]	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. 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 to follow the required actions by ASC and Norwegian regulations. b, c) NA	Compliant			
	Applicability: All except cases where human safety is endangered as noted in [28]	c. Provide documentary evidence that steps 1-3 above (in 2.5.4b) were taken prior to killing the animal. If human safety was endangered and urgent action necessary, provide documentary evidence as outlined in [28].					
Footnote		[27] Lethal action: Action taken to deliberately kill an anir	mal, including marine mammals and birds.				
Footnote	tnote [28] Exception to these conditions may be made for a rare situation where human safety is endangered. Should this be required, post-incident approval from a senior manager should be made and relevant authorities must be informed.						
	ould be a $1:1$ relationship between the number of animal $d\mathfrak{e}$	Instruction to Clients and CABs on Indicators 2.5.4, 2.5.5, and 2.5.6 - Clarifications as well as entanglements or other accidental mortalities of non-salmonids [footnote	ote 29]. For the purpose of assisting farms and auditors with understanding how to of further: othal actions taken by the farm during a given time period one (1) lethal action in past last two years and that single lethal action resulted in k od.				
	The terr	in hori-samona was intended to cover any predatory animals which are likely to try to reed u	por rainieu sainion. In practice tilese animais will usually be seals of bilds.				
	Indicator: Evidence that information about any lethal	a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence.	a, b, c) System implemented to make information easily publicly available if any				
2.5.4	incidents [30] on the farm has been made easily publicly available [29] Requirement: Yes Applicability: All	a. For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence.	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 3 lethal incidents	Compliant			
		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] Po	sting results on a public website is an example of "easily publicly available." Shall be made avail	able within 30 days of the incident and see Appendix VI for transparency requireme	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	b. Calculate the total number of lethal incidents and the number of incidents involving marine	a, b) List on https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq-norway/baerekraft/asc-rapportering/; showing 3 lethal incidents since last two production cycles c) Sent to ASC on 16-03-2020	Compliant	
Footnote		[30] Lethal incident: Includes all lethal actions as well as entanglement	nts or other accidental mortalities of non-salmonids.		
Footnote		[31] Standard 2.5.6 applicable to incidents related to non-endangered and non-red-liste	ed species. This standard complements, and does not contradict, 2.5.3.	1	
2.5.6	Indicator: In the event of a lethal incident, evidence that an assessment of the risk of lethal incident(s) has been undertaken and demonstration of concrete steps taken by the farm to reduce the risk of future incidences		a) 3 lethal incident, and no lethal actions. There is a site specific risk assessment	Compliant	
	Requirement: Yes Applicability: All	b. Provide documentary evidence that the farm implements those steps identified in 2.5.6a to reduce the risk of future lethal incidents.	b) NA. No lethal actions		

	PRINCIPLE 3: PROTECT THE HEALTH AND GENETIC INTEGRITY OF WILD POPULATIONS Criterion 3.1 Introduced or amplified parasites and pathogens [34, 35]					
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote	[32] F	arm sites for which there is no release of water that may contain pathogens into the natural (fro		.1.		
Footnote		[33] See Appendix VI for transparency requirements	for 3.1.1, 3.1.3, 3.1.4, 3.1.6 and 3.1.7.			
According to eligible for each 1) the farm 2) any efflue	exemption from Criterion 3.1 if it can be shown that either of does not release any water to the natural environment; or	en effectively treated to kill pathogens (e.g. UV and/or chemical treatment of water with testing				
	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 informationsharing. 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.				
3.1.1		b. Submit to the CAB a description of how the ABM (3.1.1a) coordinates management of disease and resistance to treatments, including: - coordination of stocking; - fallowing; - therapeutic treatments; and - information sharing.	a, b, c) ABM a requirement in national legislation. Records and overview over ABM and ref to "Samordnet plan for lusebekjempelse i subregion Nordland Nord "dt. 11-12-2019 in zones defined by NFSA and companys in ABM. ABM for zone 5 Hamarøy only Cermaq's sites located in the zone. Weekly updates to AltInn, where info is available for all farms in zone. Also regular meetings between	Minor	The AMB plan does not cover monitoring and information sharing of fish disease among farms in the ABM. NC was graded minor since the	Interview with the contact person and
		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.	participants where ABM issues are discussed 100% of farms included. The AMB plan does not cover monitoring and information sharing of fish disease among farms in the ABM. d) Sent to ASC on 16-03-2020	Willor	minor since the failure does not meet the definition of a major NC and will not produce a non-conforming product	fish health personnel
		d. Submit dates of fallowing period(s) as per Appendix VI to ASC at least once per year.				

		Note: Indicator 3.1.2 requires that farms demonstrate a commitment to collaborate with NGO possible impacts on wild stocks. If the farm does not receive any requests to collaborate on su of commitment through other proactive means such as published policy statements or directe	ch research projects, the farm may demonstrate compliance by showing evidence		
	Indicator: A demonstrated commitment [34] to collaborate with NGOs, academics and governments on areas of mutually agreed research to measure possible impacts on wild stocks Requirement: Yes Applicability: All except farms that release no water as noted in [32]	a. Retain records to show how the farm and/or its operating company has communicated with external groups (NGOs, academics, governments) to agree on and collaborate towards areas of research to measure impacts on wild stocks, including records of requests for research support and collaboration and responses to those requests.	a) Commitment and participation of Cermaq Norway AS is documented n several projects with NGOs, academics and governments: 1. Varpa project - Ruseprosjektet 2016, with Norwegian Authorites, active 2018 (Nordland) GSI member, active 2018 ASRC project with Ewos Inovation, feed for arctic conditions, 4 R&D licences "Skjellprøveprosjektet". Repafjordelva og Altaelva, active 2018, together with local stakeholders (Jeger og Fisk, ALI og VFJF) Monitoringprogram with NINA, ALI and VFJF, active 2018		
3.1.2		b. Provide non-financial support to research activities in 3.1.2a by either: - providing researchers with access to farm-level data; - granting researchers direct access to farm sites; or - facilitating research activities in some equivalent way.	Kompetanseklynge laks (Knowledge-cluster Salmon), leading by a commites where Cermaq is included, active 2018. Including several subprojects, year to year perspective HI, NIVA and Hammerfest Kommune, kunstig rev/tareskog, creating a godd environment for cod stock (conditions for cod spawning in Hammerfest community), active 2018, description form 2016, project owner Hammerfest community, ongoing to 2020 ClimeFish (2017), contribute with data and input from production, EU project	Compliant	
		c. When the farm and/or its operating company denies a request to collaborate on a research project, ensure that there is a written justification for rejecting the proposal.	677039, NOFIMA, UiT, University of Stirling, AVS, how climate changes affect aquaculture, ongoing to 2020. b) Some of the projects described in 3.1.2 includes non-financial support. c) Evaluated by technical team local and at company level. No rejection without justification is made.		
		d. Maintain records from research collaborations (e.g. communications with researchers) to show that the farm has supported the research activities identified in 3.1.2a.	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	n and/or its operating company must demonstrate this commitment through providing farm-lev	rel data to researchers, granting researchers access to sites, or other similar non-fine	ancial support f	or research activities.
		a. Keep records to show that a maximum sea lice load has been set for: - the entire ABM; and - the individual farm.	a) The maximum sea lice load for the entire ABM and the individual farm is: 0.5 mature sea lice per fish and 0.2 sea lice per fish in the sensitive smolt migration period according to norwegian regulation of FOR-2012-12-05-1140. Also internal procedures in Intelex Quality System, system to prevent maximum		
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	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).	sea lice load. Procedure "Prosedyre for samordnet kontroll og bekjempelse av lakselus" ID 394. Procedure "Rapportering av Lakselus" ID 348. Procedure "Prosdyre for luetelling" ID 321. Registered on farm in FishTalk. b) Governmental researh institutes monitor sea lice load on wild salmon. Sea lice	Compliant	
	Requirement: Yes Applicability: All except farms that release no water as noted in [32]	c. Provide the CAB access to documentation which is sufficient for the auditor to evaluate 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.	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		
		d. Submit the maximum sea lice load for the ABM to ASC as per Appendix VI at least once per year.	are reviewed by NFSA and Luse -nettverket weekly. d) Sent to ASC on 16-03-2020		

		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).				
	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]	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.				
3.1.4				Compliant		
		d. Make the testing results from 3.1.4b easily publicly available (e.g. posted to the company's website) within seven days of testing. If requested, provide stakeholders access to hardcopies	c-e) All lice results are available to public on https://www.barentswatch.no/fiskehelse f) Sent to ASC on 16-03-2020			
		e. Keep records of when and where test results were made public.				
		f. Submit test results to ASC (Appendix VI) at least once per year.				
Footnote	[35] Testing must be weekly during and immediately prior	to sensitive periods for wild salmonids, such as outmigration of wild juvenile salmon. Testing m for lice (below 4 degrees C). Within closed production systems, alternative method		old that it wou	ld jeopardize farmed	fish health to test
Footnote		[36] Posting results on a public website is an exam	nple of "easily publicly available."			

3.1.5	Indicator: In areas with wild salmonids [37], evidence of data [38] and the farm's understanding of that data, around salmonid migration routes, migration timing and stock productivity in major waterways within 50 kilometers of the farm Requirement: Yes Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in [32]	Instruction to Clients for Indicator 3.1.5 - Evidence for Wild Salmonid Health and Migration In writing this indicator, the SAD Steering Committee concluded that relevant data sets on wild all, jurisdictions with wild salmonids. The information is likely to come from government source conducting this research themselves. However farms must demonstrate that they are aware of management decisions related to minimizing potential impact on those wild stocks. This Indicator requires collection and understanding of general data for the major watersheds that there is data for every small river or tributary or subpopulation. Information should relate isolated from other stocks of the same species and hence self-sustaining. A "conservation unit stock-level definition. However, it must be recognized that each jurisdiction may have slight dit of priposes of these standards, "areas with wild salmonids" are defined as areas within 75 kill to encompass all, or nearly all, of salmon-growing areas in the northern hemisphere [39]. Pote species). Where a species is not natural to a region (e.g. Atlantic or Pacific Salmon in Chile) the 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 stood demonstrate an understanding of this information at the general level for salmonid population related to minimizing potential impact on those stocks. Such "evidence" would consist of, for expecting.	es or from research institutions. Therefore farms are not responsible for it this basic information in their region, as such information is needed to make within approximately 50 km of the farm. A farm does not need to demonstrate to the wild fish stock level, which implies that the population is more or less under the Canadian Wild Salmon Policy is an example of an appropriate fish fferences in how a wild salmonid stock is defined in the region. Tometers of a wild salmonid migration route or habitat. This definition is expected intially affected species in these areas are salmonids (i.e. including all trout areas are not considered as "areas with wild salmonids" even if salmon have this standard if general information is already available. Farms must is in their region, as such information is needed to make management decisions				
		a. Identify all salmonid species that naturally occur within 75 km of the farm through literature search or by consulting with a reputable authority. If the farm is not in an area with wild salmonids, then 3.1.5b and c do not apply.	a) Atlantic salmon (Salmo salar) and trout (Salmo trutta) is naturally occurring in the area.				
		b. For species listed in 3.1.5a, compile best available information on migration routes, migration timing (range of months for juvenile outmigration and returning salmon), life history timing for coastal resident salmonids, and stock productivity over time in major waterways within 50 km of the farm.	b) Migratory routes are defined in website "environmental statistics" (https://lakseregisteret.fylkesmannen.no/) on salmonid carrying rivers, and Lakseregisteret from Miljødirektoratet. 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	Compliant			
		c. From data in 3.1.5b, identify any sensitive periods for wild salmonids (e.g. periods of outmigration of juveniles) within 50 km of the farm.	21 to week 26. d) Sufficient awarness and also participation in related scientific projects by Cermaq staff				
Footnote	[37] For purposes of these standards, "areas w	- with wild salmonids" are defined as areas within 75 kilometers of a wild salmonid migration rou	te or habitat. This definition is expected to encompass all, or nearly all, of salmon-gr	rowing areas in	the northern hemis	phere.	
Footnote	[38] Farms do not need to conduct research on migration	38] Farms do not need to conduct research on migration routes, timing and the health of wild stocks under this standard if general information is already available. Farms must demonstrate an understanding of this information at the general level for salmonid populations in their region, as such information is needed to make management decisions related to minimizing potential impact on those stocks.					

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. 3.1.6 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. e. Submit to ASC the results from monitoring of sea lice levels on wild salmonids as per Appendix VI.	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 situation "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) Sent to ASC on 16-03-2020	Compliant	
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 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]	a. Inform the CAB if the farm operates in an area of wild salmonids. If not, then Indicator 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. c. Maintain detailed records of monitoring on-farm lice levels (see 3.1.4) during sensitive periods as per Appendix II-2. d. Provide the CAB with evidence there is a 'feedback loop' between the targets for on-farm lice levels and the results of monitoring of lice levels on wild salmonids (Appendix II-2).	a) Salmonides naturally occurr in the area. There are wild salmonid migration route or habitat within 75 km of the farm. b) Regardless of this, the sensitive period (adult immigration for spawning and juvenile outnigration (downstream migrations)) for Norway has been defined by Norwegian Food Safety Authority in "Luseforskriften" dt.06.03.17: Northen Norway: 6 weeks from week 21-26; Southern Norway: 6 weeks from week 16-21. The different between north and south is flow events and water temperature. c) Invested in a lot of resources for non therapautic sea lice treatment. Weekly testing form predetermined cages, according NFSA regulations. Sealice lifestage identified and recorded. (in aquafarmer and excel sheet for submittance to NSA via Altinn) Record of weekly testing for period up to 2020. Sea lice limit to be <0.2 mature female lice per farmed fish during the sensitive period. Samples documents compliance <0.2 mature females per salmon, as approved by VR227 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. However, according to VR 136 it is accepted that the farm may contribut to governmental monitoring if the program is geographically relevant. However, according to VR 136 it is accepted that the farm may contribut to governmental monitoring if the program is geographically relevant. Site is located in the PO1 region and the surveillance of lice level on wild salmonids has been done by IMR in 2019. The surveillance is done evey year at different seasons	Compliant	
Footnote	[39] Sensitive periods for migrating salmonids is during juvenile o	utmigration and approximately one month before.		

Criterion 3.2 Introduction of non-native species											
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):								
3.2.1	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]	Note: For the purposes of Indicator 3.2.1, "area" is defined as a contiguous body of water with species' life and reproduction (e.g. the Northern Atlantic Coast of the U.S. and Canada). Append be defined, taking into account the zone in which key cumulative impacts on wild populations n and function." The intent is that the area relates to the spatial extent that is likely to be put at riboundaries of countries.	lix II-1A elaborates further on this definition: "The boundaries of an area should nay occur, water movement and other relevant aspects of ecosystem structure								
		a. Inform the CAB if the farm produces a non-native species. If not, then Indicator 3.2.1 does not apply.	NA.No non-native species is being produced								
		b. Provide documentary evidence that the non-native species was widely commercially produced in the area before June 13, 2012.									
		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.									
		d. If the farm cannot provide evidence for 3.2.1b or 3.2.1c, provide documented evidence that the production system is closed to the natural environment and for each of the following: 1) non-native species are separated from wild fish by effective physical barriers that are in place and well maintained; 2) barriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce [40]; and 3) barriers ensure there are no escapes of biological material [40] that might survive and subsequently reproduce (e.g. UV or other effective treatment of any effluent water exiting the system to the natural environment).		N/A							
Footnote	[40] Exceptions shall be made for production systems that use 100 percent sterile fish or systems that demonstrate separation from the wild by effective physical barriers that are in place and well-maintained to ensure no escapes of reared specimens or biological material that might survivand subsequently reproduce.										

3.2.2	Indicator: If a non-native species is being produced, evidence of scientific research [41] completed within the past five years that investigates the risk of establishment of the species within the farm's jurisdiction and these results submitted to ASC for review [42] Requirement: Yes Applicability: All [43]	Instruction to Clients for Indicator 3.2.2 - Exceptions to Allow Production of Non-Native Species Farms have had five years to demonstrate compliance with this standard from the time of publication of the ASC Salmon Standard (i.e. full compliance by June 13, 2017). Farms are exempt from this standard if they are in a jurisdiction where the non-native species became established prior to farming activities in the area and the following three conditions are met: eradication would be impossible or have detrimental environmental effects; the introduction took place prior to 1993 (when the Convention on Biological Diversity (CBD) was ratified); the species is fully self-sustaining. Note: For the purposes of Indicator 3.2.2, "jurisdiction" is defined the same as "area" in 3.2.1.						
		a. Inform the ASC of the species in production (Appendix VI).	NA.No non-native species is being produced	N/A				
		b. Inform the CAB if the farm produces a non-native species. If not, then Indicator 3.2.2 does not apply.						
		c. If yes to 3.2.2b, provide evidence of scientific research completed within the past five years that investigates the risk of establishment of the species within the farm's jurisdiction. Alternatively, the farm may request an exemption to 3.2.2c (see below).						
		d. If applicable, submit to the CAB a request for exemption that shows how the farm meets all three conditions specified in instruction box above.						
		e. Submit evidence from 3.2.2c to ASC for review.						
Footnote	[41] The research must at a minimum include multi-year monitoring for non-native farmed species, use credible methodologies and analysis, and undergo peer review.							
Footnote	[42] If the review demonstrates there is increased risk, the ASC will consider prohibiting the certification of farming of non-native salmon in that jurisdiction under this standard. In the event that the risk tools demonstrate "high" risks, the SAD expects that the ASC will prohibit the certification of farming of non-native salmon in that jurisdiction. The ASC intends to bring this evidence into future revision of the standard and those results taken forward into the revision process.							
Footnote	[43] Farms are exempt from this standard if they are in a jurisdiction where the non-native species became established prior to farming activities in the area and the following three conditions are met: eradication would be impossible or have detrimental environmental effects; the introduction took place prior to 1993 (when the Convention on Biological Diversity (CBD) was ratified); the species is fully self-sustaining.							

	Indicator: Use of non-native species for sea lice control	a. Inform the CAB if the farm uses fish (e.g. cleaner fish or wrasse) for the control of sea lice.				
3.2.3	for on-farm management purposes Requirement: None Applicability: All	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 cleaner fish is used at the site during the current production cycle	Compliant		
		c. Collect documentary evidence or first hand accounts as evidence that the species used is not non-native to the region.				
		Criterion 3.3 Introduction of transgeni	c 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) Statement 23-03-2017, from genetics service provider Aquagen breeding stock, stating that only conventional breeding and genetics are applied. No			
	Indicator: Use of transgenic [44] salmon by the farm Requirement: None Applicability: All	b. Maintain records for the origin of all cultured stocks including the supplier name, address	genetic modifications are applied. c) Information for salmon group available in invoices and fish/ova CV. Norwegian law forbids genetically modifications on salmon roe for use in farming industry. Source: The Norwegian Gene Technology Act (Genteknologiloven) (LOV-1993-04-	Compliant		
		c. Ensure purchase documents confirm that the culture stock is not transgenic.	02-38).			
		c. Ensure purchase documents commit that the culture stock is not transgenic.				

		Criterion 3.4 Escapes [47]			ı ·	
_		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote		[45] See Appendix VI for transparency requires	ments for 3.4.1, 3.4.2 and 3.4.3.	T	1	
		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.			
3 4 1	Indicator: Maximum number of escapees [46] in the most recent production cycle Requirement: 300 [47]	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. c) Documented in production and recording system Aquafarmer with reports.	Compliant		
	Applicability: All farms except as noted in [47]	d. If an escape episode occurs (i.e. an incident where > 300 fish escaped), the farm may request a rare exception to the Standard [47]. Requests must provide a full account of the episode and must document how the farm could not have predicted the events that caused the escape episode.	Environmental company/site reports for 2013- 2019 states 0 escapes. Documents are and will be available for at least 10 years. d) Fisheries directorate reports (www.fiskeridir.no) shows no escapes from site. e) Sent to ASC on 16-03-2020			
		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 to	tal aggregate number of escapees per production cycle must be less than 300 fish. Data on dat	e of escape episode(s), number of fish escaped and cause of escape episode shall be	e reported as o	utlined in Appendix \	/I.
Footnote		r an escape event that is clearly documented as being outside the farm's control. Only one such hich the farm is applying for certification. The farmer must demonstrate that there was no reas				eginning of the
		Maintain records of accuracy of the counting technology used by the farm at times of stocking and harvest. Records include copies of spec sheets for counting machines and common estimates of error for hand-counts.	a) Counting performed at fresh water (FW) site, vaccination numbers used for stocking number at sea net cage, and final accurate numbers at harvest plant			
3.4.2	Indicator: Accuracy [48] of the counting technology or counting method used for calculating stocking and harvest numbers	b. If counting takes place off site (e.g. pre-smolt vaccination count), obtain and maintain documents from the supplier showing the accuracy of the counting method used (as above).	where individual fish is handled and regsitered. b) Vaccination numbers in FW used as accurate number stocked. Statement from aquascanon 98% accuracy and Wingtech installed on Wellboats 98%. EUL was used to cross check the and verify the accuracy.	Compliant		
	Requirement: ≥ 98% Applicability: All	c. During audits, arrange for the auditor to witness calibration of counting machines (if used by the farm).	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 VAKI (WWW.VAKI.is) and Aquascan of 98-100% accuracy.			
		e. Submit counting technology accuracy to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).	e) Sent to ASC on 16-03-2020			
Footnote		[48] Accuracy shall be determined by the spec sheet for counting machines a	and through common estimates of error for any hand-counts.			

		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.						
	Indicator: Estimated unexplained loss [49] of farmed salmon is made publicly available	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	a) Spesific site reports and records documented and available in production and recording system Fishtalk b) EUL: 3.41% 50066 fish) for last generation					
	Requirement: Yes Applicability: All	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.	EUL = (stocking count: 1465952) - (harvest count: 1309829) - (mortalities: 205999) - (recorded escapes: 0)		Compliant 3.41% 50066 fish	3.41%		
		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.	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) Sent to ASC on 16-03-2020	Compliant		50066 fish		
		d. Submit estimated unexplained loss to ASC as per Appendix VI for each production cycle.	_					
Footnote	[49] Calculated at the end of	the production cycle as: Unexplained loss = Stocking count – harvest count – mortalities – oth	I er known escapes. Where possible, use of the pre-smolt vaccination count as the sto	ocking count is	preferred.			

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: net strength testing; appropriate net mesh size; net traceability; system robustness; predator management; record keeping; reporting risk events (e.g. holes, infrastructure issues, handling errors); planning of staff training to cover all of the above areas; and planning of staff training on escape prevention and counting technologies. c. If the farm operates a closed system, ensure the plan (3.4.4a) covers the following areas: system robustness; predator management; record keeping; reporting risk events (e.g. holes, infrastructure issues, handling errors); planning of staff training to cover all of the above areas; and planning of staff training on escape prevention and counting technologies. d. Maintain records as specified in the plan.	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. c) NA (Open system) d) All structures are certified to Norwegian standard NS9415 (Certificate APN-344 by Akvaplan Niva dated 13-05-2015). Furthermore there was a risk assessment for escapes, d.t 25.04.2019, including relevant issues related to potensial causes to escapes, e.g delicing procedure "Prosedyre for a avlusning med lukket presenning not og mære" ID 189, d.t 15.03.2019 Producer for daily maintaice of sites (prosedyre for daglig ettersyn og røkting matfisk) updated on 10.12.2019. e) Escape prevention training internal/external for sitemanagers and site employee. Annual revision of escape prevention plan, risk assessment and contingency plans. Test of escape prevention plan included in training in 2018 and 2019. Last escape prevention training was on 17-09-2019.	Compliant	
		e. Train staff on escape prevention planning as per the farm's plan.			

PRINCIPLE 4	: USE RESOURCES IN AN ENVIRONMENTALLY EFFICIENT AND		als in food	
		Criterion 4.1 Traceability of raw materi Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):	
Farms must intervals by been acknow accurate inf their feed produce a b Method #2: feed produce compliance under the m Note 1: The that produce.	an independent auditing firm or a conformity assessment by wledged by the ASC (see 4.1.1c below). Results from these a promation about their production and supply chains. Declara roducers are duly informed of the requirements of the ASC to the above, farms must also show that their feed suppliers to one of two different methods to demonstrate compliance. Farms may choose to source feed from feed producers who atch of feed according to farm specifications. Audits of the farms may choose to source feed from feed producers who tion period meets ASC requirements. However, mixing of in with ASC requirements. The mass balance method can be alianagement of a single legal entity.	liance with the requirements of Indicators 4.1.1 through 4.4.4. To do so, farms must obtain doc ody against a recognized standard which substantially incorporate requirements for traceability udits shall demonstrate that feed producers have robust information systems and information tions from the feed producer that are provided to the farm to demonstrate compliance with th Salmon Standard relating to sourcing of responsibly produced salmon feed (see 4.1.1b below). It comply with the more detailed requirements for traceability and ingredient sourcing that are sof feed producers: Doused only those ingredients allowed under the ASC Salmon Standards during the production of feed producer will independently verify that manufacturing processes are in compliance with ASC of demonstrate compliance using a "mass-balance" method. In this method, feed producers show gredients into the general silos and production lines is allowed during manufacturing. Audits of publied, for example, to integrated feed production companies that handle all steps of feed manufacturer to the produces the fish feed (i.e. it is the "feed manufacturer"). In most cases, the organizations are not directly responsible for feed production. Regardless of whether the farm sources feet	Acceptable certification schemes include GlobalGAP or other schemes that have handling processes to allow the feed producers to be able to bring forward ese indicators must be supported by the audits. Farms must also show that all of pecified under indicators 4.1.1 through 4.4.2. The ASC Salmon Standard allows of a given batch of feed. For example, the farm may request its feed supplier to SC requirements. We that the balance of all ingredients (both amount and type) used during a given the feed producer will independently verify that manufacturing processes are in ufacturing (purchasing of raw materials, processing to finished feed, and sales) on supplying feed to a farm (i.e. the feed supplier) will be the same organization	
		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.	a) Feed suppliers: For last production cycle 17G: EWOS (6128 mt feed) For current cycle 19G: EWOS, records of purchase so far: 5417 mt	
4.1.1	Indicator: Evidence of traceability, demonstrated by the feed producer, of feed ingredients that make up more than 1% of the feed [50]. Requirement: Yes	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.	EWOS (www.cargill.com) b) Feed suppliers informed of certifications of site and relevant ASC requirements in mail to EWOS dt.26.03.18 c) EWOS: Audited by DNV GL GG CFM dt26.06.2019, Global G.A.P. CFM Version	Compliant
	Applicability: All	d. For each feed producer, determine whether the farm will use method #1 or method #2 (see Instructions above) to show compliance of feed producers. Inform the CAB in writing.	2.1 Dec13. Certifcate GGN CoC 4050373825744 , valid to 24.06.2020 d) Method #2 Massbalance e) Statement from Cargill/EWOS on complete traceability dated 03.01.2019	
		e. Obtain declaration from feed supplier(s) stating that the company can assure traceability of all feed ingredients that make up more than 1% of the feed to a level of detail required by the ASC Salmon Standard [50].		
Footnote	[50] Traceability shall be at a level of detail that permits t	the feed producer to demonstrate compliance with the standards in this document (i.e., marine third-party documentation of the ingredients		eed manufacturers will need to supply the farm with

		Criterion 4.2 Use of wild fish for fee			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
Footnote		[51] See Appendix VI for transparency requ	irements for 4.2.1 and 4.2.2.		
		Farms must calculate the Fishmeal Forage Fish Dependency Ration (FFDRm) according to maintained sufficient information in order to make an accurate calculation of FFDRm as outl (i.e. if the FFDRm of the most rece - the cli - the client maintains all information needed to acc		r 4.2.1 for the most recent comp on cycle; and	
	Indicator: Fishmeal Forage Fish Dependency Ratio (FFDRm) for grow-out (calculated using formulas in Appendix IV- 1)	a. Maintain a detailed inventory of the feed used including: - Quantities used of each formulation (kg); - Percentage of fishmeal in each formulation used; - Source (fishery) of fishmeal in each formulation used; - Percentage of fishmeal in each formulation derived from trimmings; and - Supporting documentation and signed declaration from feed supplier.	a, b) Detailed information on the feed composition was seen. For example:		
4.2.1	Requirement: < 1.2 Applicability: All	b. For FFDRm calculation, exclude fishmeal derived from rendering of seafood by-products (e.g. the "trimmings" from a human consumption fishery.	Total feef used for 17G: 8224.6 mt Fish meal from forage fishes: 8.7% b) Trimmings are excluded in the calculations.	Compliant	0,41
		c. Calculate eFCR using formula in Appendix IV-1 (use this calculation also in 4.2.2 option #1).	c) eFCR=1.13 d) For 17G: FFDRm: (% fishmeal in feed from forage fisheries) x (eFCR)/24= 0.41 e) Sent to ASC on 16-03-2020	Compliant	0,42
		d. Calculate FFDRm using formulas in Appendix IV-1.			
		e. Submit FFDRm to ASC as per Appendix VI for each production cycle.			

		Note: Under Indicator 4.2.2, farms can choose to calculate FFDRo (Option #1) or EPA & DHA (Colored than the CAB which option they will use.	Option #2). Farms do not have to demonstrate that they meet both threshold			
		a. Maintain a detailed inventory of the feed used as specified in 4.2.1a.				
	Indicator: Fish Oil Forage Fish Dependency Ratio (FFDRo) for grow-out (calculated using formulas in Appendix IV-1),	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 17G: Fishoil from forage fisheries from Group b:2.3%			
4.2.2	or, Maximum amount of EPA and DHA from direct marine sources [52] (calculated according to Appendix IV-2) Requirement: FFDRo < 2.52 or	c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard.	Fishoil from forage fisheries from group a: 5.9% Trimmings are excluded in the calculations. c) Option #1.	Compliant	npliant 1,69	
	(EPA + DHA) < 30 g/kg feed Applicability: All	d. For option #1, calculate FFDRo using formulas in Appendix IV-1 and using the eFCR calculated under 4.2.1c.	d) For 2017G: FFDRo: (% Fishoil in feed from forage fisheries)x (eFCR)/5.0 or 7.0, depending on source of fish = 1.69 e) N/A.			
		e. For option #2, calculate amount of EPA + DHA using formulas in Appendix IV-2.	f) Sent to ASC on 16-03-2020			
		f. Submit FFDRo or EPA & DHA to ASC as per Appendix VI for each production cycle.				
Footnote		eries by-products and trimmings. Trimmings are defined as by-products when fish are processe meet official regulations with regard to fish su n be excluded from the calculation as long as the origin of the trimmings is not any species that	itable for human consumption.			-
		Criterion 4.3 Source of marine raw n	aterials			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
4.3.1	Indicator: Timeframe for all fishmeal and fish oil used in feed to come from fisheries [53] certified under a scheme that is an ISEAL member [54] and has guidelines that specifically promote responsible environmental management of small pelagic fisheries	NA NA		N/A		
	Requirement: Not required Applicability: N/A					
Footnote	[53] This standard an	d standard 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries, or fisheries	where the catch is directly reduced (including krill) and not to by-products or trimn	nings used in fe	ed.	
Footnote		[54] Meets ISEAL guidelines as demonstrated through full membership in the ISEAL Alliance	e, or equivalent as determined by the Technical Advisory Group of the ASC.			

		Instruction to Clients for Indicator 4.3.2 - FishSource Score of Fish Used in Feed To determine FishSource scores of the fish species used as feed ingredients, do the following: -go to http://www.fishsource.org/ -type the species into the search function box and choose the accurate fishery -confirm that the search identifies the correct fishery then scroll down or click on the link from For first audits, farms must have scoring records that cover all feeds purchased during the pre Note: Indicator 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries, or fisher trimmings used in feed.	vious 6-month period.			
4.3.2	Indicator: Prior to achieving 4.3.1, the FishSource score [55] for the fishery(ies) from which all marine raw material in feed is derived Requirement: All individual scores ≥ 6,	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).				
	and biomass score ≥ 6	b. Confirm that each individual score \geq 6 and the biomass score is \geq 6.	a) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert iht. ASC) on complete traceability dated 08.11.2019 with details of raw material			
	Applicability: All	c. If the species is not on the website it means that a FishSource assessment is not available. Client can then take one or both of the following actions: 1. Contact FishSource via Sustainable Fisheries Partnerships to identify the species as a priority for assessment. 2. Contract a qualified independent third party to conduct the assessment using the FishSource methodology and provide the assessment and details on the third party qualifications to the CAB for review.	sources in specific feeds for this site in this period have scores according to ASC s requirement for this indicator. b) Correspondence verified. Individual score >6 and Biomass score >8, e. g. European sprat North Sea (Sprattus Sprattus) used in feed from EWOS was checked and the scores were more than 6. c) No independent assessment	Compliant		
Footnote		[55] Or equivalent score using the same methodology. See App	endix IV-3 for explanation of FishSource scoring.			
4.3.3	Indicator : Prior to achieving 4.3.1, demonstration of third-party verified chain of custody and traceability for the batches of fishmeal and fish oil which are in compliance with 4.3.2.	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 creports from audits of feed producers (see 4.1.1c) as evidence that traceability systems are in traceability requirements of Indicator 4.3.3 by submitting evidence that suppliers, and the bat Organization's Global Standard for Responsible Supply or to the Marine Stewardship Council C	compliance. Alternatively, farms may show that their feed producers comply with ches of fishmeal and oil, are certified to the International Fishmeal and Fish Oil hain of Custody Standard.		ļ	
4.3.3	Requirement: Yes Applicability: All	a. Obtain from the feed supplier documentary evidence that the origin of all fishmeal and fish oil used in the feed is traceable via a third-party verified chain of custody or traceability program.	EWOS: Audited by DNV GL GG CFM dt26.06.2019, Global G.A.P. CFM Version 2.1 Dec13. Certificate GGN CoC 4050373825744 , valid to 24.06.2020	Compliant		
		b. Ensure evidence covers all the species used (as consistent with 4.3.2a, 4.2.1a, and 4.2.2a).				

		a. Compile and maintain, consistent with 4.2.1a and 4.2.2a, a list of the fishery of origin for all fishmeal and fish oil originating from by-products and trimmings.				
	Indicator: Feed containing fishmeal and/or fish oil originating from by-products [56] or trimmings from IUU [57] catch or from fish species that are categorized as vulnerable, endangered or critically endangered,	b. Obtain a declaration from the feed supplier stating that no fishmeal or fish oil originating from IUU catch was used to produce the feed.	a, b, c) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert iht. ASC) on complete traceability dated 03.01.2019 with details of raw material sources in specific feeds for this site in this period have scores according to ASC requirement for this indicator and no use of any oil or by products of "IUU and vulnerable, endangered or critically endangered, according to the IUCN Red List" fish in the feed EWOS: Audited by DNV GL GG CFM dt26.06.2019, Global G.A.P. CFM Version 2.1 Dec13. Certifcate GGN CoC 4050373825744 , valid to 24.06.2020 d) Not from vulnerable fisheries			
4.3.4	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).		Compliant		
		d. If meal or oil originated from a species listed as "vulnerable" by IUCN, obtain documentary evidence to support the exception as outlined in [59].				
	Indicator: Presence and evidence of a responsible sourcing policy for the feed manufacturer for marine ingredients that includes a commitment to continuous	a. Request a link to a public policy from the feed manufacturer stating the company's support of efforts to shift feed manufacturers purchases of fishmeal and fish oil to fisheries certified under a scheme that is an ISEAL member and has guidelines that specifically promote responsible environmental management of small pelagic fisheries and committing to continuous improvement of source fisheries.	a, b, c) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert iht. ASC) on complete traceability dated 03.01.2019with details of raw material sources in specific feeds for this site in this period have scores according to ASC s requirement for this indicator.			
	improvement of source fisheries Requirement: Yes Applicability: All	b. Prepare a letter stating the farm's intent to source feed containing fishmeal and fish oil originating from fisheries certified under the type of certification scheme noted in indicator 4.3.1.	EWOS: Audited by DNV GL GG CFM dt26.06.2019, Global G.A.P. CFM Version 2.1 Dec13. Certificate GGN CoC 4050373825744 , valid to 24.06.2020	Compliant		
		c. Compile a list of the origin of all fish products used as feed ingredients in all feed.				
Footnote	[56] Trimmings are defined as by-products when fish	are processed for human consumption or if whole fish is rejected for use of human consumpti	on because the quality at the time of landing does not meet official regulations with	regard to fish	suitable for human c	onsumption.
Footnote		[57] IUU: Illegal, Unregulated a	nd Unreported.			
Footnote		[58] The International Union for the Conservation of Nature refer	ence 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 explicitly in the same science-based way as IUCN. In cases where a National Red List 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 demonstrates that the population is not vulnerable.				

		Criterion 4.4 Source of non-marine raw ma	•				
		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)					
4.4.1	Indicator: Presence and evidence of a responsible sourcing policy for the feed manufacturer for feed ingredients that comply with recognized crop moratoriums [60] and local laws [61] Requirement: Yes	b. Obtain from each feed manufacturer a copy of the manufacturer's responsible sourcing policy for feed ingredients showing how the company complies with recognized crop moratoriums and local laws.	a, b) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert iht. ASC) on complete traceability dated 03.01.2019with details of raw material sources in specific feeds for this site in this period have scores according to ASC s requirement for this indicator. c) EWOS: Audited by DNV GL GG CFM dt26.06.2019, Global G.A.P. CFM Version 2.1 Dec13. Certificate GGN CoC 4050373825744, valid to 24.06.2020	Compliant			
	Applicability: All	c. Confirm that third party audits of feed suppliers (4.1.1c) show evidence that supplier's responsible sourcing policies are implemented.					
Footnote	[60] Moratorium: A period of time in which there is a suspension of a specific activity until future events warrant a removal of the suspension or issues regarding the activity have been resolved. In this context, moratoriums may refer to suspension of the growth of defined agricultural crops in defined geographical regions.						
Footnote	[61] Specifically, the policy shall include that vegetable ing	redients, or products derived from vegetable ingredients, must not come from areas of the Am Moratorium be lifted, this specific requirer		the Brazilian Soy Moratorium. Shoul	d the Brazilian Soy		
		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.					
	Indicator: Percentage of soya or soya-derived ingredients	b. Prepare a letter stating the farm's intent to source feed containing soya certified under the RTRS (or equivalent)	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 b-c) Feed suppliers informed of relevant ASC requirements in mail to EWOS				
4.4.2	in the feed that are certified by the Roundtable for Responsible Soy (RTRS) or equivalent [62] Requirement: 100%	c. Notify feed suppliers of the farm's intent (4.4.2b).	dt.18.06.15.The ASC requirements are now part of the contact. d-e) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert iht. ASC) dated 03.01.2019 with details of raw material sources according to ASC	Compliant			
	Applicability: All	d. Obtain and maintain declaration from feed supplier(s) detailing the origin of soya in the feed.	s requirement for this indicator. EWOS: Audited by DNV GL GG CFM dt26.06.2019, Global G.A.P. CFM Version 2.1 Dec13. Certifcate GGN CoC 4050373825744, valid to 24.06.2020				
		e. Provide evidence that soya used in feed is certified by the Roundtable for Responsible Soy (RTRS) or equivalent [62]					
Footnote		[62] Any alternate certification scheme would have to be approved as	equivalent by the Technical Advisory Group of the ASC.	1			

4.4.3	Indicator: Evidence of disclosure to the buyer [63] of the 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 containing > 1% transgenic content [65] Applicability: All	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. 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. c. Inform ASC whether feed contains transgenic ingredients (yes or no) as per Appendix VI for each production cycle.	a, b) Statement from Cargill/EWOS (Dokumentasjon og informasjon om for levert iht. ASC) on complete traceability dated 03.01.2019, no GMO product is used as feed ingredients c) Sent to ASC on 16-03-2020	Compliant		
Footnote	[63] The company o	r entity to which the farm or the producing company is directly selling its product. This standard	I requires disclosure by the feed company to the farm and by the farm to the buyer	of their salmor	1.	
Footnote	[64] Transgenic	: Containing genes altered by insertion of DNA from an unrelated organism. Taking genes from	one species and inserting them into another species to get that trait expressed in th	e offspring.		
Footnote		[65] See Appendix VI for transparency Criterion 4.5 Non-biological waste from	•			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		I	
		a. Prepare a policy stating the farm's commitment to proper and responsible treatment of non-biological waste from production. It must explain how the farm's policy is consistent with best practice in the area of operation.	a) Environmental policy for Cermaq Norway AS (11.04.2019) with referance to other relevant internal documents and reports Procedure for general waste management 7 june 2018 number 163 was avaiable.			
	Indicator: Presence and evidence of a functioning policy for proper and responsible [66] treatment of non-biological waste from production (e.g., disposal and	b. Prepare a declaration that the farm does not dump non-biological waste into the ocean.	b) Statment on date 06.04.2017 that no wast is dumpted to sea. Definition of dangerous waste and how to be handled were provided on the waste management procedure ID 291 and 19. June. 2018.			
4.5.1	recycling) Requirement: Yes Applicability: All	c. Provide a description of the most common production waste materials and how the farm ensures these waste materials are properly disposed of.	c) Nets, old production equipments, bags, empty chemical boxes, old PPEs, waste feed, old feed, silage, and plastics are the general wastes produced on farms. d) No waste are recycled on the farm. All nonbiological waste (Nets, 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.	Compliant		
		d. Provide a description of the types of waste materials that are recycled by the farm.	The site has site specific plan for waste handling in their environmental targets, updated annually. Nets are collected by Mørenot. Dead fish delivied to Scanbio. last delivery 05-04-2020 General and dangerous waste has been delivered to Østbø, an example of a delivery on 24-01-2020 to Østbø was seen.			
Footnote	[66] Proper and responsible disposal will vary based on fac biological waste into the ocean does not represent "proper	lilities available in the region and remoteness of farm sites. Disposal of non-biological waste shal rand responsible" disposal.	Il be done in a manner consistent with best practice in the area. Dumping of non-			

		a. Provide a description of the most common production waste materials and how the farm ensures these waste materials are properly disposed of. (see also 4.5.1c)				
4.5.2	Indicator: Evidence that non-biological waste (including net pens) from grow-out site is either disposed of properly or recycled	 b. Provide a description of the types of waste materials that are recycled by the farm. (See also 4.5.1d) 	a-d) All nonbiological waste (Nets, 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 by Mørenot. Dead fish delivied to Scanbio. last delivery 05-04-2020 General and dangerous waste has been delivered to Østbø, an example of a delivery on 24-01-2020 to Østbø was seen.	Compliant		
4.5.2	Requirement: Yes Applicability: All	c. Inform the CAB of any infractions or fines for improper waste disposal received during the				
		d. Maintain records of disposal of waste materials including old nets and cage equipment.				

		Criterion 4.6 Energy consumption and greenhouse gas			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
Footnote		[67] See Appendix VI for transparency requirer	ments for 4.6.1, 4.6.2 and 4.6.3.		
		Instruction to Clients for Indicator 4.6.1 - Energy Use Assessment Indicator 4.6.1 requires that farms must have an assessment to verify energy consumption. Th site(s) that is applying for certification. Boundaries for operational energy use should correspo use corresponding to Scope 3 emissions (i.e. the energy used to fabricate materials that are pu encourages companies to integrate energy use assessments across the board in the company. For the purposes of calculating energy consumption, the duration of the production cycle is th stages. Farms that have integrated smolt rearing should break out the grow-out stage portion converted to kilojoules. Verification is done by internal or external assessment following eithe details).	and to the sources of Scope 1 and Scope 2 emissions (see Appendix V-1). Energy urchased by the farm) is not required. However the SAD Steering Committee the entire life cycle "at sea" - it does not include freshwater smolt production of energy consumption if possible. Quantities of energy (fuel and electricity) are		
	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	a. Maintain records for energy consumption by source (fuel, electricity) on the farm throughout each production cycle.	a) Records and calculations were verified b) Energy consumption in kilojoules (kj): Scope 1: 1075295340, Scope 2: 950662800 Kj, Total scope 1+2: 2025958140 c) Biomass produced during last complete production cyclus 17G: 5392 mt		
4.6.1		b. Calculate the farm's total energy consumption in kilojoules (kj) during the last production cycle.			
	produced/production cycle Applicability: All	c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle.		Compliant	
		d. Using results from 4.6.1b and 4.6.1c, calculate energy consumption on the farm as required, reported as kilojoule/mt fish/production cycle.		Compilant	
		e. Submit results of energy use calculations (4.6.1d) to ASC as per Appendix VI for each production cycle.	Scope 2: Electricity. Assessed and compared between sites and production forms.		
		f. Ensure that the farm has undergone an energy use assessment that was done in compliance with requirements of Appendix V-1.			

		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. D scope of this requirement is restricted to operational boundaries for the farm site(s) that is ap companies to integrate GHG accounting practices across the board in the company. Verification Protocol Corporate Standard or ISO 14064-1 (see Appendix V-1 for more details). Note: For the purposes of this standard, GHGs are defined as the six gases listed in the Kyoto F hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and sulphur hexafluoride (SF ₆).	plying for certification. However the SAD Steering Committee encourages in may be done by internal or external assessment following either the GHG			
		a. Maintain records of greenhouse gas emissions on the farm.				
	Indicator: Records of greenhouse gas (GHG [68]) emissions [69] on farm and evidence of an annual GHG assessment, as outlined in Appendix V-1 Requirement: Yes Applicability: All	b. At least annually, calculate all scope 1 and scope 2 GHG emissions in compliance with Appendix V-1.	a) Records were verified. 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 = 141425.57 kg CO2e c) Farm records of GHG assessment. Scope 1 diesel from diesel/gasoline workboat, truck, generator and scope 2 is purchased electricity d) All calculated to CO2e e) Sent to ASC on 16-03-2020 f) Calculaitons and assessment provided. Data convertion factors were from: IEA, SSB, EIA, IPCC.			
		c. For GHG calculations, select the emission factors which are best suited to the farm's operation. Document the source of those emissions factors.		Compliant		141425.57 kg CO2e
		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.				
		e. Submit results of GHG calculations (4.6.2d) to ASC as per Appendix VI at least once per year.				
		f. Ensure that the farm undergoes a GHG assessment as outlined in Appendix V-1 at least annually.				
Footnote	[68] For the purposes of this stand	ard, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide (CO ₂); metha	ne (CH4); nitrous oxide (N₂O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs);	and sulphur he	xafluoride (SF ₆).	
Footnote		[69] GHG emissions must be recorded using recognized methods,	standards and records as outlined in Appendix V.			

		Instruction to Clients for Indicator 4.6.3 - GHG Emissions of Feed Indicator 4.6.3 requires that farms document the greenhouse gas emissions (GHG) associated information from their feed supplier(s) and thereafter maintain a continuous record of Feed G the entire previous production cycle. Therefore farms should inform their feed supplier(s) and - the farm provides its feed suppliers with detailed information about the requirements includ - 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 compositio lot-by-lot basis. Note2: Feed supplier's calculations must include Scope 1, Scope 2, and Scope 3 GHG emissions	HG emissions throughout all production cycles. This requirement applies across: ing a copy of the methodology outlined in Appendix V, subsection 2; to demonstrate compliance. In used to produce the salmon (by weight) rather than using feed composition on a				
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	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.	9106000 kg CO2ekv	Compliant		9106000	
		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.				kg CO2ekv	
		d. Submit GHG emissions of feed to ASC as per Appendix VI for each production cycle.					
Footnote	[70] GHG emissions from feed can be given based on the average raw material composition used to produce the salmon (by weight) and not as documentation linked to each single product used during the production cycle. Feed manufacturer is responsible for calculating GHG emissions per unit feed. Farm site then shall use that information to calculate GHG emissions for the volume of feed they used in the prior production cycle.						

		Criterion 4.7 Non-therapeutic chemical in				
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote		[71] Closed production systems that do not use nets and do not use antifoulant	s shall be considered exempt from standards under Criterion 4.7.			
Footnote		[72] See Appendix VI for transparency require	ments for 4.7.1, 4.7.3 and 4.7.4.			
		a. Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping.	a) Procedure "Prosedyre for kontroll, ettersyn og renhold av not" ID 315, d.t. 22.08.17. Internal statement/procedure on antifouling used and not cleaning in sea defined in 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. Confirmed no use of CU treated nets "Net coating"Netpolish NP Super used on nets or "Net coating" without any biocides c, d) Copper-based treatments are not used on net. Nets consist of Netpolish NP super. d) Sent to ASC on 16-03-2020			
	Indicator. For forms that we connect treated gate [72]	b. Maintain records of antifoulants and other chemical treatments used on nets.				
4.7.1	Indicator: For farms that use copper-treated nets [73], evidence that nets are not cleaned [74] or treated in situ in the marine environment Requirement: Yes	c. Declare to the CAB whether copper-based treatments are used on nets.		Compliant		
	Applicability: All farms except as noted in [71]	d. If copper-based treatments are used, maintain documentary evidence (see 4.7.1b) that farm policy and practice does not allow for heavy cleaning of copper-treated nets in situ.				
		e. Inform ASC whether copper antifoulants are used on farm (yes or no) as per Appendix VI for each production cycle.				
Footnote		net that has been treated with any copper-containing substance (such as a copper-based antifo been treated with copper may still consider nets as untreated so long as sufficient time and cle- new nets.				
Footnote	[74] Light cleaning of nets is allowed. Intent of the	standard is that, for example, the high-pressure underwater washers could not be used on cop	oper treated nets under this standard because of the risk of copper flaking off during	this type of he	eavy or more thoroug	h cleaning.
		a. Declare to the CAB whether nets are cleaned on-land.	a) Nets are cleaned on land by net producer and contractor Morenøt AS.			
4.7.2	Indicator: For any farm that cleans nets at on-land sites, evidence that net-cleaning sites have effluent treatment [75] Requirement: Yes Applicability: All farms except as noted in [71]	b. If nets are cleaned on-land, obtain documentary evidence from each net-cleaning facility that effluent treatment is in place.	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		
		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.				
Footnote		[75] Treatment must have appropriate technologies in place to ca	opture copper if the farm uses copper-treated nets.			

	No	Note: If the benthos throughout and immediately outside the full AZE is hard bottom, provide	evidence to the CAB and request an exemption from Indicator 4.7.3 (see 2.1.1c).			
	Indicator: For farms that use copper nets or copper- treated nets, evidence of testing for copper level in the sediment outside of the AZE, following methodology in	a. Declare to the CAB whether the farm uses copper nets or copper-treated nets. (See also 4.7.1c). If "no", Indicator 4.7.3 does not apply.	NA. no use of CU treated nets			
4.7.3	Appendix I-1 Requirement: Yes Applicability: All farms except as noted in [71]	b. If "yes" in 4.7.3a, measure and record copper in sediment samples from the reference stations specified in 2.1.1d and 2.1.2c which lie outside the AZE.		Compliant		
		c. If "yes" in 4.7.3a, maintain records of testing methods, equipment, and laboratories used to test copper level in sediments from 4.7.3b.				
	Indicator: Evidence that copper levels [76] are < 34 mg Cu/kg dry sediment weight, or, in instances where the Cu in the sediment exceeds 34 mg Cu/kg dry sediment weight, demonstration that the Cu concentration falls within the range of background concentrations as measured at three reference sites in the water body Requirement: Yes	a. Inform the CAB whether: 1) farm is exempt from Indicator 4.7.4 (as per 4.7.3a), or 2) Farm has conducted testing of copper levels in sediment.				
		b. Provide evidence from measurements taken in 4.7.3b that copper levels are < 34 mg Cu/kg dry sediment weight.	^m NA. no use of CU treated nets			
4.7.4		c. If copper levels in 4.7.4b are ≥ 34 mg Cu/kg dry sediment weight, provide evidence the farm tested copper levels in sediments from reference sites as described in Appendix I-1 (also see Indicators 2.1.1 and 2.1.2).		Compliant		
	Applicability: All farms except as noted in [71] and excluding those farms shown to be exempt from Indicator 4.7.3	d. Analyze results from 4.7.4c to show the background copper concentrations as measured at three reference sites in the water body.				
		e. Submit data on copper levels in sediments to ASC as per Appendix VI for each production cycle.				
Footnote		[76] According to testing required under 4.7.3. The standards related to testing of copper are	e 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	a. Identify all biocides used by the farm in net antifouling.	a) Netpolish NP Super			
4.7.5	European Union, or the United States, or Australia Requirement: Yes Applicability: All farms except as noted in [71]	b. Compile documentary evidence to show that each chemical used in 4.7.5a is approved according to legislation in one or more of the following jurisdictions: the European Union, the United States, or Australia.	b) Classification according to EU directive 67/548/EEC 99/45/EC & 2001/58/EC (DSD/DPD) also classified according to directive 1272/2008 (CLP). Net coating is regsieterd by DEBIO as safe for ecological production (EU reg 2092/91).	Compliant		

PRINCIPLE 5:	MANAGE DISEASE AND PARASITES IN AN ENVIRONMENTA					
		Criterion 5.1 Survival and health of farm		Γ		
For a transfer		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):	<u> </u>		
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.	ication and monitoring of fish disease and parasites. This plan may be part of a more ehensive farm planning document. Site specific Fish Health Plan in QMS with links to relevant procedures. Plan covers all aspect of relevant disease and parasite diagnostics and control measures. Internal veterinary services, responsible veterinarian. Approved and signed by veterinarian dt. 25.03.2020 Elisabeth Faureng.	Compliant		
	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].				
	Indicator: Site visits by a designated veterinarian [78] at least four times a year, and by a fish health manager [79]	a. Maintain records of visits by the designated veterinarian [78] and fish health managers [82]. If schedule cannot be met, a risk assessment must be provided.				
5.1.2	at least once a month Requirement: Yes Applicability: All	b. Maintain a current list of personnel who are employed as the farm's designated veterinarian(s) [78] and fish health manager(s) [79].	a) Minimum 12 visits annually. System for weekly scheduled meetings covering e.g. FH issues. Last visit 26-02-2020. The list of fish health personnel with valid HPR number was verified.	Compliant		
		c. Maintain records of the qualifications of persons identified in 5.1.2b.				
Footnote		sponsible for health management on the farm who has the legal authority to diagnose disease a qualifications and is equivalent to a veterinarian for purposes of these standards. This definition		or other profession	nal has equivalent	professional
Footnote	[79] A fish health manag	ger is someone with professional expertise in managing fish health, who may work for a farming	g company or for a veterinarian, but who does not necessarily have the authority to	prescribe medicin	ne.	
		a. Maintain records of mortality removals to show that dead fish are removed regularly and disposed of in a responsible manner.	a-b) System established for handling and documentation according to			
5.1.3	Indicator: Percentage of dead fish removed and disposed of in a responsible manner Requirement: 100% [80] Applicability: All	b. Collect documentation to show that disposal methods are in line with practices recommended by fish health managers and/or relevant legal authorities.	requirements in national legislation handled by NFSA. Seen "Prosedyre for håndtering av dødfisk,svimere og ensillasje" ID 289 dated 15-03-2019 in QMS system. Daily removal of dead fish (registration in FishTalk system) and processed to ensilage. The ensilage is collected by Scanbio AS, an accredited company. An example of a delivery (invoice) dated 05-04-2020 was seen.	Compliant		
	арриминцу. Ан	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] Th	le SAD recognizes that not all mortality events will result in dead fish present for collection and	removal. However, such situations are considered the exception rather than the no	rm.	L	

	Indicator: Percentage of mortalities that are recorded, classified and receive a post-mortem analysis Requirement: 100% [81] Applicability: All	Note: Farms are required to maintain mortality records from the current and two previous production cycles. For first audit, records for the current and prior production cycle are required. It is recommended that farms maintain a compiled set of records to demonstrate compliance with 5.1.3 - 5.1.6.				
		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 Veterinarian institue. d) Record are available and documented in Fishtalk, all mortalities are categorised. e) Record are available and documented in AquaFarmer, all mortalies are categorised. f) Sent to ASC on 16-03-2020	Compliant		
		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.				
5.1.4		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. Using results from 5.1.3a-c, classify each mortality event and keep a record of those classifications.				
		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 requi	res off-site laboratory diagnosis. A qualified professional must conduct all diagnosis. One hundi the mortality event shall b		every fish. A st	atistically relevant nu	umber of fish from

5.1.5	Indicator: Maximum viral disease-related mortality [82] on farm during the most recent production cycle Requirement: ≤ 10% Applicability: All	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. 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).	a) All mortalities are registered in FishTalk Mortality categorised for all production cycles. Documented in FishTalk: b) Maximum viral disease-related mortality = 100 x (Total viral mortality (148714)+ total number of unspecified and unexplained mortalities from the most recent complete production cycle 2017G (25856) / total number of fish produced (1465952) = 11.88% c) Sent to ASC on 16-03-2020	Compliant		11,88%
Footnote		[82] Viral disease-related mortality count shall include unspecified and un	explained mortality as it could be related to viral disease.			
	Indicator: Maximum unexplained mortality rate from	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.	Total mortality 2017G: 14.05%		Maximum unexplained mortality rate for last two production cycles (2017 and 2015) is	
5.1.6	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.	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	Total: 17.5: unexplained mortality: 1.76% 15G: unexplained mortality: 45.76% Total: 47.52% Maximum unexplained mortality rate for 2017 and 2015 production cycle is more than 40%.	Minor	47.52%, meaning more than 40% (the ASC requirement). Maximum unexplained mortality rate for last two	Interview with the contact person and fish health personnel
		c. Submit data on maximum unexplained mortality to ASC as per Appendix VI for each production cycle.			production cycles (2017 and 2015) is more than 40%.	

		Note: Farms have the option to integrate their farm-specific mortality reduction program into	the farm's fish health management plan (5.1.1).			
	Indicator: A farm-specific mortalities reduction programme that includes defined annual targets for	a. Use records in 5.1.4a to assemble a time-series dataset on farm-specific mortalities rates and unexplained mortality rates.	a-b) Mortality rate reduction programme (Corporate leve Finnmark on <10% morts pr.generation). Mortality reduction programs also part of managment review for Cermaq Norway and Cermaq Group. Specified in FHP, on site level with concrete objectives for actions to reduce the mortality. To reduce the mortality the fish health personel discuss the root causes and preventive action plans of mortalities in the recent completed production cycle. However, no annual farm-specific mortalities reduction programme has been defined. c) Confirmed during interviews	Minor	No annual farm- specific mortalities reduction	Interview with the contact person and fish health personnel
	reductions in mortalities and reductions in unexplained mortalities 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. 			programme has been defined. Maximum unexplained mortality rate for last two production cycles	
		c. Ensure that farm management communicates with the veterinarian, fish health manager, and staff about annual targets and planned actions to meet targets.			(2017 and 2015) is more than 40%.	
		Criterion 5.2 Therapeutic treatmen	ts [83]			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote		[83] See Appendix VI for transparency requiremen	its for 5.2.1, 5.2.5, 5.2.6 and 5.2.10.		T T	
		a. Maintain a detailed record of all chemical and therapeutant use that includes:				
	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	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) All historic detailes for both previous and current production cycles are registered and kept in Fishtalk. 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			
5.2.1	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		usage, quantity and dosage, withdrawal periods defined and regsitered in Fishtalk.	Compliant		
	Requirement: Yes Applicability: All	b. If not already available, assemble records of chemical and therapeutant use to address all points in 5.2.1a for the previous two production cycles. For first audits, available records must cover one full production cycle immediately prior to the current cycle.	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) Sent to ASC on 16-03-2020			
		c. Submit information on therapeutant use (data from 5.2.1a) to ASC as per Appendix VI on an				
		ongoing basis (i.e. at least once per year and for each production cycle).				

		T	1					
	Indicator: Allowance for use of therapeutic treatments that include antibiotics or chemicals that are banned [85] in any of the primary salmon producing or importing countries [86] Requirement: None	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].	I NOI WEGIAII I EGUIALIOII/ NESA. SUDSLAIICES DAIIIIEU III IIIAI KEU III EIIF OVEISIKL					
5.2.2		b. Maintain records of voluntary and/or mandatory chemical residue testing conducted or commissioned by the farm from the prior and current production cycles.	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 (Overvåkingog 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 government entity because of concerns around the substance. A substance banned in any of the primary salmon-producing or importing countries, as defined here, cannot be used in any salmon farm certified under the SAD, regardless of country of production or destination of the product. The SAD recommends that ASC maintain a list of a banned therapeutants.							
Footnote		[86] For purposes of this standard, those countries are Norway, the U	IK, Canada, Chile, the United States, Japan and France.					
5.2.3	Indicator: Percentage of medication events that are prescribed by a veterinarian Requirement: 100% Applicability: All	a. Obtain prescription for all therapeutant use in advance of application from the farm veterinarian (or equivalent, see [78] for definition of veterinarian). b. Maintain copies of all prescriptions and records of veterinarian responsible for all medication events. Records can be kept in conjunction with those for 5.2.1 and should be kept for the current and two prior production cycles.	a) Record of prescriptions was seen. All from veterinarian / fish biolog For example: Prescription from 24-01-2019 for Floraqppharma vet (a medicinal feed) by Karl Fredrik Otten. The HPR number was verified. b) 100% of treatment events are prescribed by a veterinarian Original prescription 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					
	Indicator: Compliance with all withholding periods after treatments Requirement: Yes Applicability: All	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.	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. c) In Fish Talk where treatment dates are specified and compared to harvest	Compliant				
		c. Show compliance with all withholding periods by providing treatment records (see 5.2.1a) and harvest dates for the most recent production cycle.	dates. According to FHMP/VHP on withholding periods defined.					

5.2.5	Indicator: The farm shall publicly report (via Appendix VI) the: 1. Weighted Number of Medicinal Treatments (see Appendix VII) for each production cycle 2. The parasiticide load for each agent over the production cycle 3. The benthic parasiticide residue levels Requirement: Yes Applicability: All	a. Using farm data for therapeutants usage (52.1a) and the calculation presented in Appendix VII, calculate the Weighted Number of Medicinal Treatments (WNMT) score for the most recent production cycle. Calculation should be made and updated on an ongoing basis throughout the cycle by farm manager, fish health manager, and/or veterinarian. b. Provide the auditor with access to records showing how the farm calculated the WMNT score. c. Submit data on farm level WMNT score to ASC as per Appendix VI for each production cycle.	a) The WNMT score was calculated correctly and that the scores are accurate. b) Treating an entire farm (all cages) once, counts as WNMT = 1 c) Sent to ASC on 16-03-2020	Compliant	1
5.2.6	Indicator: The Weighted Number of Medicinal Treatments shall be at or below the country Entry Level (see Appendix VII) Requirement: Yes Applicability: All	a. Review WNMT scores from 5.2.5a to determine if the score is at or below the Country Entry Level (see Appendix VII) b. As applicable, submit data to ASC on WNMT score for the most recent production cycle (Appendix VI).	a) Norway Country Entry Leve: 5. The WNMT score for the most recent production cycle: 1 b) Sent to ASC on 16-03-2020	Compliant	
5.2.7	Indicator: The farm shall reduce the Weighted Number of Medicinal Treatments, after achieving indicator 5.2.6, with 25% per 2 years until the WNMT is at or below the Global Level (see Appendix VII). Requirement: Yes Applicability: All	a. Every 2 years after achieving 5.2.6, check the WNMT score calculated 2 years before as above (5.2.5a). Calculate the percent difference in WMNT score between current cycle and cycle of 2 years before. b. As applicable, submit data to ASC on WMNT score for the most recent production cycle and the two previous production cycles (Appendix VI).	a) The WNMT of the farm (1) is below the Global Level (3) b) Sent to ASC on 16-03-2020	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-b) The farm has prepared a strategic plan on 05-02-2020.	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: https://www.cermaq.com/wps/wcm/connect/cermaq-no/cermaq-norway/baerekraft/asc-rapportering b) The plan has been signed-off by an authorized veterinarian with valid HPR.	Compliant	

5.2.10	Indicator: The farm shall monitor parasiticide residue levels annually in the benthic sediment directly outside the AZE.	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	NA. Subjected to Q&A111	Compliant	
	Requirement: Yes Applicability: All	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.			
	Indicator: Allowance for prophylactic use of antimicrobial treatments Requirement: None Applicability: All	a. Maintain records for all purchases of antibiotics (invoices, prescriptions) for the current and prior production cycles. b. Maintain a detailed log of all medication-related events (see also 5.2.1a and 5.2.3) c. Calculate the total amount (g) and treatments (#) of antibiotics used during the current and prior production cycles (see also 5.2.13).	a-c) All antimicrobial treamtemnts are intended for therapeutic purposes. There has been only one prescription from 24-01-2019 for Floraqppharma vet (a medicinal feed) by Karl Fredrik Otten.	Compliant	
5.2.12	Indicator: Allowance for use of antibiotics listed as critically important for human medicine by the World Health Organization (WHO) Requirement: None Applicability: All	 a. Maintain a current version of the WHO list of antimicrobials critically and highly important for human health [89]. b. If the farm has not used any antibiotics listed as critically important (5.2.12a) in the current production cycle, inform the CAB and proceed to schedule the audit. c. If the farm has used antibiotics listed as critically important (5.2.12a) to treat any fish during the current production cycle, inform the CAB prior to scheduling audit. d. If yes to 5.2.12c, request an exemption from the CAB to certify only a portion of the farm. Prior to the audit, provide the CAB with records sufficient to establish details of treatment, which pens were treated, and how the farm will ensure full traceability and separation of treated fish through and post- harvest. 	a) Valid WHO CIA list 6th edition 2018, released in 2019 demonstrated for antimicrobials critically and highly important for human health presented. b-d) NA. Only Floraqpharma Vet (active substance: Florfenikol) has been used, which is not listed in the WHO CIA list 6th edition 2018.	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. Only Floraqpharma Vet (active substance: Florfenikol) has been used, which is not listed in the WHO CIA list 6th edition 2018.	N/A	

	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	Ib. Calculate antibiotic load (antibiotic load = the sum of the total amount of active ingredient	Only Floraqpharma Vet (active substance: Florfenikol) has been used once during the last production cycle,	Compliant	
5.2.15	Indicator: Presence of documents demonstrating that the farm has provided buyers of its salmon a list of all therapeutants used in production Requirement: Yes Applicability: All	a. Prepare a procedure which outlines how the farm provides buyers [94] of its salmon with a list of all therapeutants used in production (see 4.4.3b). b. Maintain records showing the farm has informed all buyers of its salmon about all therapeutants used in production.	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 2.	Compliant	

		Criterion 5.3 Resistance of parasites, viruses and bacteri	ia to medicinal treatments		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
	Indicator: Bio-assay analysis to determine resistance	Instruction to Clients for Indicator 5.3.1 - Identifying the 'Expected Effect' of Medicinal Treatr Indicator 5.3.1 requires that farms identify treatments that have not produced the expected of with health condition and type of medicinal treatment. Therefore farms and auditors will need 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 n determine whether treatment has produced the expected effect, farm and auditor must review < 90% then the treatment did not produce the expected effect and a bio-assay should be performance. If field-based bio-assays for determining resistance are ineffective or unavailable, the far resistance formation. The auditor shall record in the audit report why field-based bio-assays we resistance formation.	ffect. The SAD Steering Committee recognizes that the "expected effect" will vary it to review the pre- and post-treatment condition of fish in order to understand minimum of 90 percent reduction in abundance of lice on the farmed fish. To we pre- and post-treatment lice counts. If the calculated percent reduction in lice is permed to determine whether sea lice have developed resistance.		
5.3.1	when two applications of a treatment have not produced the expected effect Requirement: Yes Applicability: All	a. In addition to recording all therapeutic treatments (5.2.1a), keep a record of all cases where the farm uses two successive medicinal treatments.			
	Аррисавиту: Ап	b. Whenever the farm uses two successive treatments, keep records showing how the farm evaluates the observed effect of treatment against the expected effect of treatment.	No consecutive treatments done in present cycle without desired effect.	Compliant	
		c. For any result of 5.3.1b that did not produce the expected effect, ensure that a bio-assay analysis of resistance is conducted.			
		d. Keep a record of all results arising from 5.3.1c.			
5.3.2	Requirement: Yes Applicability: All 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	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		No guidance available yet	No consecutive treatments done in present cycle without desired effect.	Compliant	

	Criterion 5.4 Biosecurity management [95]					
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote		[95] See Appendix VI for transparency requ	irements for 5.4.2 and 5.4.4.	1		
	Indicator: Evidence that all salmon on the site are a single- year class [96]	a. Keep records of the start and end dates of periods when the site is fully fallow after harvest.	a) Smolt CVs for site with ova /stripping/startfeeding dates. Harvest date for 17G: 05-11-2018 Smolt input for 19G: 06.01.2019-13.01.2019			
5.4.1	Requirement: 100% [97] Applicability: All farms except as noted in [97]	b. Provide evidence of stocking dates (purchase receipts, delivery records) to show that there were no gaps > 6 months for smolt inputs for the current production cycle.	b) Smolt CVs for site with ova /stripping/startfeeding dates. salmon on the site are from a single-year class.	Compliant		
Footnote	[96] G	aps of up to six months between inputs of smolts derived from the same stripping are acceptal	ole as long as there remains a period of time when the site is fully fallow after harve	st.		
Footnote		[97] Exception is allow that have closed, contained production units where there is complete separation of water between the protocol, dedicated quarantine capability and biosecurity measures for water between the protocol.	veen units and no sharing of filtration systems or other systems that could spread di		r other effective trea	atment of effluent)
	Indicator: Evidence that if the farm suspects an unidentifiable transmissible agent, or if the farm 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	a. For mortality events logged in 5.1.4a, show evidence that the farm promptly evaluated each to determine whether it was a statistically significant increase over background mortality rate on a monthly basis [98]. The accepted level of significance (for example, p < 0.05) should be agreed between farm and CAB.				
		b. For mortality events logged in 5.1.4a, record whether the farm did or did not suspect (yes or no) an unidentified transmissible agent.				
5.4.2		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-choice/asc-dashboard/	Compliant		
	Requirement: Yes Applicability: All	d. If required, ensure that the farm takes and records the following steps: 1) Report the issue to the ABM and to the appropriate regulatory authority; 2) Increase monitoring and surveillance [99] on the farm and within the ABM; and 3) Promptly (within one month) make findings publicly available.				
		e. As applicable, submit data to ASC as per Appendix VI about unidentified transmissible agents or unexplained increases in mortality. If applicable, then data are to be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle).				
Footnote		[98] Increased mortality: A statistically significant increase	e over background rate on a monthly basis.			
Footnote		[99] Primary aim of monitoring and surveillance is to investigate who	ether a new or adapted disease is present in the area.			
Footnote		[100] Within one mo	onth.			

5.4.3	Indicator: Evidence of compliance [101] with the OIE Aquatic Animal Health Code [102] Requirement: Yes Applicability: All	Instruction to Clients for Indicator 5.4.3 - Compliance with the OIE Aquatic Animal Health Co Indicator 5.4.3 requires that farms show evidence of compliance with the OIE Aquatic Animal farm practices consistent with the intentions of the Code. For purposes of the ASC Salmon Sta farm will initiate an aggressive response to detection of an exotic OIE-notifiable disease on the (area declared free of the pathogen)]. An aggressive response will involve, at a minimum, the -depopulation of the infected site; -implementation of quarantine zones (see note below)in accordance with guidelines from O -additional actions as required under Indicator 5.4.4. To demonstrate compliance with Indicator 5.4.3, clients have the to option to describe how fa Code by developing relevant policies and procedures and integrating them into the farm's fish Note: The Steering Committee recognizes that establishment of quarantine zones will likely in some, though not necessarily all, of the ABM. a. Maintain a current version of the OIE Aquatic Animal Health Code on site or ensure staff have access to the most current version. b. Develop policies and procedures as needed to ensure that farm practices remain consistent with the OIE Aquatic Animal Health Code (5.4.3a) and with actions required under indicator 5.4.4.	Health Code (see http://www.oie.int/index.php?id=171). Compliance is defined as indard, this means that the farm must have written procedures stating how the e farm ['exotic' = not previously found in the area or had been fully eradicated following actions: IE for the specific pathogen; and arm practices are consistent with the intentions of the OIE Aquatic Animal Health is health management plan. corporate mandatory depopulation of sites close to the infected site and affect a) OIE AAHC presented and awareness demonstrated. Awareness of OIE aquatic Animal Health Code. b) Internal procedure in Intelex on practices in accordance with OIE AAHC" Described in VHP, notification of diseases, contingency plan (Beredskapsplan for Carman, dt. 27 03, 2018, In 1154). Platification of diseases, contingency plan (Beredskapsplan for Carman, dt. 27 03, 2018, In 1154). Platification of diseases, contingency plan (Beredskapsplan for Carman, dt. 27 03, 2018, In 1154). Platification of diseases.	Compliant	
		-			
Footnote		with the intentions of the Code, to be further outlined in auditing guidance. For purposes of thi es in accordance with guidelines from OIE for the specific pathogen. Quarantine zones will likel signifies not previously found in the area or had been fully er	ly incorporate mandatory depopulation of sites close to the infected site and affect s		
Footnote		[102] OIE 2011. Aquatic Animal Health Code. http	o://www.oie.int/index.php?id=171.		

	Indicator: If an OIE-notifiable disease [103] is confirmed	a. Ensure that farm policies and procedures in 5.4.3a describe the four actions required under Indicator 5.4.4 in response to an OIE-notifiable disease on the farm. b. Inform the CAB if an OIE-notifiable disease has been confirmed on the farm during the				
5.4.4	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	current production cycle or the two previous production cycles. If yes, proceed to 5.4.4c. If no, then 5.4.4c an 5.4.4d do not apply. c. If an OIE-notifiable disease was confirmed on the farm (see 5.4.4b), then retain documentary evidence to show that the farm: 1) immediately culled the pen(s) in which the disease was detected; 2) immediately notified the other farms in the ABM [104] 3) enhanced monitoring and conducted rigorous testing for the disease; and 4) promptly (within one month) made findings publicly available.	a) There is a procedure in Intelex on practices in accordance th OIE AAHC" Described in VHP, notification of diseases, contingency plan (Beredskapsplan for Cermaq, d.t. 27.03.2018, ID 1154) "Notification of diseases". health manager has the responsibility to inform governments if notifiable diseases occur. b-e) No occurrence of OIE-notifiable diseases.	Compliant		
	Applicability: All	d. As applicable, submit data to ASC as per Appendix VI about any OIE-notifiable disease that was confirmed on the farm. If applicable, then data are to be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle).				
Footnote	[103] At the time of publication of the final draft standa	 arrds, OIE-notifiable diseases relevant to salmon aquaculture were: Epizootic haematopoietic nec (Gyrodactylus salar		al hemorrhagic	septicemia (VHS) and	d Gyrodactylosis
Footnote		[104] This is in addition to any notifications to regulatory bodies requir	ed under law and the OIE Aquatic Animal Health Code.			
Footnote		[105] Within one mo				
		Social requirements in the standards shall be audited by an individual who is a lead au	ditor in conformity with SAAS Procedure 200 section 3.1.			
PRINCIPLE 6	: DEVELOP AND OPERATE FARMS IN A SOCIALLY RESPONSIB		useriaine (10C)			
		6.1 Freedom of association and collective ba				
Footnote	[106] Bargain co	ollectively: A voluntary negotiation between employers and organizations of workers in order to		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 interfere 50% of employees are organised. b) Worker Trade union (TU) representative was elected during meeting of employees in March Hansen, and for Finnmark is Svein Hugo Hansen. c) Worker representative have meetings with management for coordination. The workers are withere is request visits to sites will be organised without obstacles. d) Interview has confirmed information. The TU representative has possibility to visit farms. M	ence to decisions of workers. 2019. The worker trade union (TU) representative for Norldland is Svein Inge visited case by case. The rest of the time open channel by phone and e-mail. If	Compliant		

6.1.2	Indicator: Evidence that workers are free to form organizations, including unions, to advocate for and protect their rights Requirement: Yes Applicability: All Indicator: Evidence that workers are free and able to	a) The job contracts do not specifically states the right of freedom of association but it has reference to labour law and Tariff agreement. Both of documents state that right. b) Employer has created WEB based Personal handbook and Ethical guidelines (last revision 28-08-2018) those documents have stated the right of association. c) All workers confirmed free possibilities to be organised.	Compliant			
6.1.3	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 hig	gher 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 development	pping country ex	ceptions in ILO conv	vention 138.	
Footnote		[108] Child Labor: Any work by a child younger than the age specified in the definition of a child.				
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 age will not be exposed to hazardous health and safety conditions; working hours shall not interfere with their education and the combined daily transportation time and school	l time, and work	time shall not exce	ed 10 hours.	
Footnote	[111]	Hazard: The inherent potential to cause injury or damage to a person's health (e.g., unequipped to handle heavy machinery safely, and unprotected exposure to harmful chemical	s).			
Footnote	[112] Hazardous work: Work that, by its nature	[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				
	Indicator: Number of incidences of forced, [113] bonded [114] or compulsory labor Requirement: None Applicability: All	a) Contracts are understood. Contracts do not lead to workers being indebted. Trainings are paid by the company without obligations from workers to compensate if they are leaving the company. b) After shift workers are free to leave c) No cases of forced, bonded or compulsory labor identified during interview with the employees. d) No cases of forced, bonded or compulsory labor identified during interview with the employees. e) No cases of forced, bonded or compulsory labor identified during interview with the employees. f) Interview has confirmed information. Payroll records are maintained.	Compliant			
Footnote	[113] Forced (Compulsory) labor: All work or service th	at is extracted from any person under the menace of any penalty for which a person has not offered himself/herself voluntarily or for which such work or service is demanded as a sanctions, physical punishment, or the loss of rights and privileges or restriction of movement (e.g., withholding of identity documents).	a repayment of	debt. "Penalty" can i	mply monetary	
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]	1			
		Compliance Criteria				
Footnote	[115] Discrimination: Any distinction, exclusion or prefere	nce that has the effect of nullifying or impairing equality of opportunity or treatment. Not every distinction, exclusion or preference constitutes discrimination. For instance, a mei by itself discriminatory. Positive discrimination in favor of people from certain underrepresented groups may be legal in some countries.	rit- or performa	nce-based pay incre	ase or bonus is not	
	Indicator: Evidence of comprehensive [116] and proactive anti-discrimination policies, procedures and practices Requirement: Yes Applicability: All	a) Ethical guidelines (last revision 28-08-2018) and Whistle blowing procedure (17-01-2019). b) Whistle blowing procedure (17-01-2019) 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 policies stating that the company does not engage in or support discrimination in hiring, remuneration, access to training, promotion, termination or retirement based on race, caste, national origin, religion, disability, gender, sexual orientation, union membership, political affiliation, age or any other condition that may give rise to discrimination.					
	Indicator: Number of incidences of discrimination Requirement: None Applicability: All	a) No cases identified. b) The rights of employees are respected. During interview no discrimination cases reported	Compliant			

	Criterion 6.5 Work environment health and safety					
		Compliance Criteria				
	Indicator: Percentage of workers trained in health and safety practices, procedures [117] and policies on a yearly basis	a) Documentation is developed and is available in working places. b) Employees know emergency respond procedures. The training records are kept on site.				
6.5.1	Requirement: 100%	Employees are trained and annual refreshment trainings. Procedure for conducting the drills (ID 1126) is implemented.	Compliant			
	Applicability: All	c) Safety drills were organised on site on 21-02-2020. The fire dirll was on 22-02-2020.				
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 that the PPEs are provided based on H&S hazard and risk assessments.	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. Regular evaluation of the H&S risks and the training for employees took place. The safe job analysis is done prior to all major works on the site with definitions of risks and their management measures. PPEs are provided based on H&S hazard and risk assessments. c) Monthly H&S committee meetings are discussing the need to update the procedures based on practices or OHS incidents accidents. Minutes of meetings are maintained. The site manager has possibility to suggest changes to procedure.	Compliant			
6.5.4	Indicator: Evidence that all health- and safety-related accidents and violations are recorded and corrective actions are taken when necessary Requirement: Yes Applicability: All	a) Company level electronic database INTELEX is used to report for all H&S and environmental accidents and near accidents. Monthly H&S report is generated. Sites have monthly discussions on H&S accidents, incidents and near misses form site and the report. b) Company level electronic database INTELEX is managed with records for all H&S and environmental accidents and near accidents and their investigation. c) Corrective action plans are managed in INTELEX. d) The analysis is understood and improvements are implemented.	Compliant			
6.5.5	Indicator: Evidence of employer responsibility and/or proof of insurance (accident or injury) for 100% of worker costs in a job-related accident or injury when not covered under national law Requirement: Yes Applicability: All	a) Insurance is provided for all permanent employees. Temporary employees are provided with accident insurance.	Compliant			

6.5.6	Indicator: Evidence that all diving operations are conducted by divers who are certified Requirement: Yes Applicability: All	Note: If the farm outsources its diving operations to an independent company, the farm shall ensure that auditors have access to specified information sufficient to demonstrate compliance with Indicator 6.5.6. It is the farm's responsibility to obtain copies of relevant documentation (e.g. certificates) from the dive company. a) The diving activities procedure is in use. The records of diving activities maintained on site. The check list was introduced to check information/documents prior to diving. b) Copies of divers' certificates are maintained. For example: a diving report on 29-01-2020 and 13-09-2019 done by Inspectmar AS and the ASC requirements were verified.	Compliant	
		Criterion 6.6 Wages		
		Compliance Criteria		
6.6.1	Indicator: The percentage of workers whose basic wage [118] (before overtime and bonuses) is below the minimum wage [119] Requirement: 0 (None) Applicability: All	a) Documents are available at the company. There is no legal minium wage in Norway and the Tariff agreement 2018 – 2020 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. The basics need wage is covered by the wage tariff agreament that all employees get. b) The calculations and comparison are done. The comparison with wages was conducted. The company wages are above BNW. c) Wages exceed basic needs wage.	Compliant	
Footnote	[120] Basic needs wage: A wage th	nat covers the basic needs of an individual or family, including housing, food and transport. This concept differs from a minimum wage, which is set by law and may or may not cover.	er the basic needs of wor	kers.
	Indicator: Evidence of transparency in wage-setting and rendering [121] Requirement: Yes Applicability: All	a) The contracts of employees has appendix defining the bonus application. The bonuses are defined in Bonus document. b) The clearly understood by workers. c) Wages are transferred to personal bank accounts d) Interview has confirmed information about wages	Compliant	
Footnote		[121] Payments shall be rendered to workers in a convenient manner.		

	Criterion 6.7 Contracts (labor) including subcontracting						
		Compliance Criteria					
6.7.1	Indicator: Percentage of workers who have contracts [122] Requirement: 100% Applicability: All	a) Contracts available, records maintained. b) No evidences of labor-only contracting relationships or false apprenticeship schemes c) Interview confirms legal employment by contracts.	Compliant				
Footnote		nticeship schemes are not acceptable. This includes revolving/consecutive labor contracts to deny benefit accrual or equitable remuneration. False Apprenticeship Scheme: The prunder 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 premployment relationship for the purpose of avoiding payment of regular wages or the provision of legally required benefits, such as health and safety protections.					
6.7.2	Indicator: Evidence of a policy to ensure social compliance of its suppliers and contractors Requirement: Yes Applicability: All	a) The Ethical and corporate responsibility policy has statements of evaluation of suppliers and subcontractors. Procedure for Classification of suppliers ID 644 is used for dividing to critical or non-critical suppliers. b) Supplier qualification procedure ID316 applies. The evaluation criteria is defined in procedure of classification of suppliers and sub-contractors. The suppliers evaluation matrix was created. There is no procedure for handling the NCs from suppliers. c) The reference to Ethical guidelines for suppliers was sent to suppliers and subcontractors.	Minor	It was not clear how the NCs from the suppliers are handled. There is no procedure for handling the NCs from suppliers. NC was graded minor since the failure does not meet the definition of a major NC and will not produce a non- conforming product	Interview with the contact person and fish health personnel		
		Criterion 6.8 Conflict resolution					
		Compliance Criteria					
6.8.1	Indicator: Evidence of worker access to effective, fair and confidential grievance procedures Requirement: Yes Applicability: All	a) Procedure of Conflict resolution defines ways of communication of conflicts. Whistle blowing procedure is developed, which is included in Personnel handbook. Conflict management procedure ID 429 is defined. b) Workers are familiar with procedures for conflict resolution. c) The interviews are confirming the information above.	Compliant				
6.8.2	Indicator: Percentage of grievances handled that are addressed [123] within a 90-day timeframe Requirement: 100% Applicability: All	a) The system of handling of grievances, complaints and labour conflicts is in place and effective. b) The system of handling of grievances, complaints and labour conflicts is in place. Documentation is maintained. The conflict had place. Management had applied all necessary procedures and addressed the conflict in good way. c) Documentation is maintained. All cases are 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				
6.9.1	Indicator: Incidences of excessive or abusive disciplinary actions Requirement: None Applicability: All	a) The employer does not use excessive or abusive disciplinary actions. No cases of improper disciplinary behaviour, no warnings were issued. b) No cases identified. c) Interview has confirmed no cases of improper disciplinary behaviour.	Compliant			
Footnote		[124] Mental Abuse: Characterized by the intentional use of power, including verbal abuse, isolation, sexual or racial harassment, intimidation or threat of physical force.				
· oothote		[I			
6.9.2	Indicator: Evidence of a functioning disciplinary action policy whose aim is to improve the worker [125] Requirement: Yes Applicability: All	a) Disciplinary policy is defined in personal handbook. The verbal and written disciplinary warnings may be used in case of misbehaviour during the work. b) Company has the working disciplinary system. Workers confirmed understanding and fairness of disciplinary policy. Documentation is maintained.	Compliant			
Footnote	[125] If disciplinary action is required, progressive verbal	and written warnings shall be engaged. The aim shall always be to improve the worker; dismissal shall be the last resort. Policies for bonuses, incentives, access to training and prouse used arbitrarily. Fines or basic wage deductions shall not be acceptable disciplinary practices.	omotions are clear	ly stated and unde	erstood, and not	
	·	Criterion 6.10 Working hours and overtime				
		Compliance criteria				
		Note: Working hours, night work and rest periods for workers in agriculture should be in accordance with national laws and regulations or collective agreements (e.g. The Safety and Health in Agriculture Convention, 2001). Additional information can be found on the website of the International Labour Organization (www.ilo.org).				
	Indicator: Incidences, violations or abuse of working hours and overtime laws [126] Requirement: None Applicability: All	a) The time scheme 1:1 is used. (7 days x 10 hours and 7 days-off). It is approved by ASC. The OT limits are defined by Labour law and Tariff agreement. b) Workers are registering working hours daily into Capitech system. Site manager approves. Working hours are within allowed limits. Cermaq have a local agreement with Fellesforbundet stating that the average overtime working can exceed the c) The work in shifts is applied and agreed by workers. d) Interview has confirmed no abuse of working time and overtime amounts.	Compliant			
Footnote	[126] In cas	es where local legislation on working hours and overtime exceed internationally accepted recommendations (48 regular hours, 12 hours overtime), the international standards will	Il apply.			
6.10.2	Indicator: Overtime is limited, voluntary [127], paid at a premium rate [128] and restricted to exceptional circumstances Requirement: Yes Applicability: All except as noted in [130]	a) Overtime for workers is paid at premium rate as could be seen in payslips. b) The procedure for working hours was developed. The timesheets are managed in Capitech system. c) Interviews have confirmed voluntary overtime.	Compliant			
Factor of		[127] Compulsory quartima is parmitted if provingely agreed to under a collective bagging agreement				
Footnote		[127] Compulsory overtime is permitted if previously agreed to under a collective bargaining agreement.				
Footnote	thote [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				
	Indicator: Evidence that the company regularly performs training of staff in fish husbandry, general farm and fish escape management and health and safety procedures Requirement: Yes Applicability: All	a) Company encourages the workers to participate in additional training based on Work environment policy. The Tariff agreement define the support that company would provide for employees. b) Training records maintained on site and Intelex system. c) Interview confirms that company supports education initiatives.	Compliant			
		Criterion 6.12 Corporate policies for social responsibility				
		Compliance criteria				
	Indicator: Demonstration of company-level [129] policies in line with the standards under 6.1 to 6.11 above Requirement: Yes Applicability: All	a) Company level policies are available and are in line with requirements of the standard. b) Policies are approved. c) The policies cover all company operations. d) The access is provided.	Compliant			
Footnote PRINCIPLE 7:	[129] Applies to the headquarters of the compa	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. Criterion 7.1 Community engagement	smolt producti	on and processing fa	acilities.	
		Compliance Criteria	I			
	a) Several meetings for Cermaq sites in the region have been organized with stakeholders. For example an open meeting in Innhavet on 25.11.2019. Another meeting on 19-02-2019. The invitation was sent in 08.01.2019 to interested parties. The meeting was organised on 2019-02-19. 2 people attended in the meeting. Another meeting for the opening day of Arctic Salmon Center. ASC is mentioned as an enviromental and sustainability certification. Another meeting with Steigen Community, open for public on 29-02-2020. Posted on social media, hanged in local shopes, relevant for all. Indicator: Evidence of regular and meaningful [130] consultation and engagement with community representatives and organizations b) Consultations have included main points required by the standard.					
Footnote	[130] Regular and meaningful: Meetings shall be held a	t least bi-annually with elected representatives of affected communities. The agenda for the meetings should in part be set by the community representatives. Participatory Social consider here.	Impact Assessr	ment methods may b	e one option to	

7.1.2	Indicator: Presence and evidence of an effective [131] policy and mechanism for the presentation, treatment and resolution of complaints by community stakeholders and organizations Requirement: Yes Applicability: All	a) The complaints could be delivered via company e-mail, company workers or whistle blowing channel. b) No complaints related to farm. c) No complaints related to farm received. d) The representatives from the local community and organizations were invited to the audit. No inquiries received. [131] Effective: In order to demonstrate that the mechanism is effective, evidence of resolutions of complaints can be given.	Compliant		
7.1.3	Indicator: Evidence that the farm has posted visible notice [132] at the farm during times of therapeutic treatments and has, as part of consultation with communities under 7.1.1, communicated about potential health risks from treatments Requirement: Yes Applicability: All	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 representatives from the local community and organizations were invited to the audit. No inquiries received.	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			
locales, t	he territorial boundaries of indigenous groups have a define nt behind the ASC Salmon Standard is that the farm will iden tal impact upon its neighbors. Effective community consulta	Instruction to Clients and CABs on Criterion 7.2 - Traditional Territories of Indigenous Groups the traditional territories of indigenous groups. The Indicators listed under Criterion 7.2 were designed to fulfill this purpose in a manner consistent with the United Nations Declid legal status according to local or national law. In such cases, it is straightforward to know whether a farm is operating in close proximity to indigenous people. However, when to unknown, there is no simple way to establish whether the farm is operating in close proximity to indigenous groups. Here ASC provides the following guidance. It figure a legislation of the farm and an indigenous group is less importations are one of the best ways to identify such impacts to neighbor groups. Through a transparent process of consultation, indigenous groups who are put under "stress" by the further nature of the farm's impacts. Continued consultations between farm and neighbors should create a forum where any key issue can be discussed and resolved.	oundaries of ind	digenous territories a	re undefined or farm is having a
7.2.1	Indicator: Evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations Requirement: Yes Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133]	 a) The application to have permission to operate covered identification and hearing of indigenous groups. The Sammi group of 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-f) The representatives from the local community and organizations were invited to the audit. No inquiries received. 	Compliant		

			1				
	Indicator: Evidence that the farm has undertaken proactive consultation with indigenous communities Requirement: Yes [133] Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133]	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 representatives from the local community and organizations were invited to the audit. No inquiries received.	Compliant				
Footnote		[133] All standards related to indigenous rights only apply where relevant, based on proximity of indigenous territories.					
7.2.3	Indicator: Evidence of a protocol agreement, or an active process [134] to establish a protocol agreement, with indigenous communities Requirement: Yes Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133]	a-b) The representatives from the local community and organizations were invited to the audit. No inquiries received.	Compliant				
Footnote	otnote [134] To demonstrate an active process, a farm must show ongoing efforts to communicate with indigenous communities, an understanding of key community concerns and responsiveness to key community concerns through adaptive farm management and other actions.						
		Criterion 7.3 Access to resources	1				
		Compliance Criteria					
7.3.1	Indicator: Changes undertaken restricting access to vital community resources [135] without community approval Requirement: None Applicability: All	a) The resources that are vital for community are known by the site. It was communicated during the application to get the licence to start the sites. b) The community approval for resources was done during operation application processing to start the sites. c) The representatives from the local community and organizations were invited to the audit. No inquiries received.	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 were to block, for example, a community's sole access point to a needed freshwater resustandard.	ource, this wou	ld be unacceptable u	inder the Dialogue		
	Indicator: Evidence of assessments of company's impact on access to resources Requirement: Yes Applicability: All	a) It is communicated during the application processing to start the sites. b) The representatives from the local community and organizations were invited to the audit. No inquiries received.	Compliant				
A farm s	eeking certification must have documentation from all of it	INDICATORS AND STANDARDS FOR SMOLT PRODUCTION s smolt suppliers to demonstrate compliance with the following standards. The requirements are, in general, a subset of the standards in Principles 1 through 7, focusing on the in addition, specific standards are applied to open systems (net pens), and to closed and semi-closed systems (recirculation and flow-through). [136]	npacts that are	most relevant for sm	olt facilities. In		
Footnote	[136] The SAD SC proposes this approach to addressing environmental and social performance during the smolt phase of production. In the medium term, the SC anticipates a system to audit smolt production facilities on site. In the meantime, farms will need to work with their smolt						

SECTION 8:	STANDARDS FOR SUPPLIERS OF SMOLT			
		Standards related to Principle Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):	
		Comphance Citteria (Required Cirent Actions).	Additor Evaluation (Required CAD Actions).	
		a. Identify all of the farm's smolt suppliers. For each supplier, identify the type of smolt production system used (e.g. open, semi or closed systems) and submit this information to ASC (Appendix VI).	a) The suppliers of smolts:Forsan Smolt (internal, semiclosed)	
8.1	Indicator: Compliance with local and national regulations on water use and discharge, specifically providing permits related to water quality Requirement: Yes		b) Forsan: Discharge permit from Nordland Fylkesmannen dt. 19.04.16 for max 1600 MT feed / 12,2 mill smolts.Water abstraction permit from NVE, dated 28.01.2011, ref 200707783-22. maximum water abstraction is 100 m3/min, average must not exceed 75 m3/min	Compliant
	Applicability: All Smolt Producers	c. Obtain records from smolt suppliers showing monitoring and compliance with discharge laws, regulations, and permit requirements as required.	c) Forsan: Inspection form NFSA on 26-03-2019. No NCs.	
	Indicator: Compliance with labor laws and regulations	a. Obtain declarations from smolt suppliers affirming compliance with labor laws and regulations.	Forsan is an internal supplier. Cermaq policies apply. Inspection from on	
8.2	Requirement: Yes Applicability: All Smolt Producers	b. Keep records of supplier inspections for compliance with national labor laws and codes (only if such inspections are legally required in the country of operation; see 1.1.3a)	Norwegian Labour Inspection Authority (Arbeidstilsynet) on 21-06-2018. The NC was closed on 10-10-2018.	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 biodiversit and use such documents as evidence to demonstrate compliance with Indicator 8.3 as long as		
8.3	Indicator: Evidence of an assessment of the farm's potential impacts on biodiversity and nearby ecosystems that contains the same components as the assessment fo grow-out facilities under 2.4.1	a. Obtain from the smolt supplier(s) a documented assessment of the smolt site's potential impact on biodiversity and nearby ecosystems. The assessment must address all components outlined in Appendix I-3.	a, b) Forsan: the risk assessment of the smolt production was revised on 17.June.2019. which include asociated risked related to animals, escapes, enviroments, sea floor. A. Fiskeridirektoratet permit and Recipient survey	
	Requirement: Yes Applicability: All Smolt Producers	b. Obtain from the smolt supplier(s) a declaration confirming they have developed and are implementing a plan to address potential impacts identified in the assessment.	performed by AkvaPlan Niva AS 31.1.2017, 13.09.17 and 13.3.2018, all results category 1, very good MOM-B Report no APN-0130.01 Result category 1 very good.	Compliant

	produced over a 12-month period (see Appendix VIII-1)	Instruction to Clients for Indicator 8.4 - Calculating Total Phosphorus Released per Ton of Fis Farms must confirm that each of their smolt suppliers complies with the requirement of indiciproduction 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 form If applicable, farms may take account of any physical removals of phosphorus in the form of states are 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 and the sludge was properly disposed off site and in accordance with the farm's biosolid manage	ator 8.4. This specifies the maximum amount of phosphorus that a smolt a 12-month period. The requirement is set at 4 kg/mt. The calculation of total nulas are given in Appendix VIII-1. ludge provided there is evidence to show: he relevant time period; l 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.				
	b. For all feeds used by the smolt suppliers (result from 8.4a), keep records showing phosphorus content as determined by chemical analysis or based on feed supplier declaration (Appendix VIII-1).	a) Forsan:961556 kg feed for period in 2019.				
8.4	released into the environment per metric ton (mt) of fish produced over a 12-month period (see Appendix VIII-1) 8.4 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) Forsan: 16306.2 kg total amount of phosphorus in feed.		9.62 Kg P/ bi	
	Applicability: All Smolt Producers	d. Obtain from smolt suppliers records for stocking, harvest and mortality which are sufficient to calculate the amount of biomass produced (formula in Appendix VIII-1) during the past 12 months.	d) Records for stocking, harvest and mortality which are sufficient to calculate the amount of biomass produced are availabl Forsan: 1170 mt biomass production. Total P in fish: 5033.55 kg e) Calculations are correct. Forsan: 9.62 kg phosphorus in fish biomass (mt) produced	Compliant		9.62 Kg P/ biomass
		e. Calculate the amount of phosphorus in fish biomass produced (result from 8.4d) using the formula in Appendix VIII-1.	Reference is made to VR 39 on phosphorus release to sea confirmed by ASC. See www.asc-aqua.org for VR 39 determination by ASC dt.15.09.14 f) No sludge produced/removed			
		f. If applicable, obtain records from smolt suppliers showing the total amount of Premoved as sludge (formula in Appendix VIII-1) during the past 12 months.	g) NA			
		g. Using the formula in Appendix VIII-1 and results from 8.4a-f (above), calculate total phosphorus released per ton of smolt produced and verify that the smolt supplier is in compliance with requirements.				

		Standards related to Principle .	3		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
	Indicator: If a non-native species is being produced, the species shall have been widely commercially produced in the area prior to the publication of the ASC Salmon Standard	Obtain written evidence showing whether the smolt supplier produces a non-native species or not. If not, then Indicator 8.5 does not apply.			
		b. Provide the farm with documentary evidence that the non-native species was widely commercially produced in the area before publication of the ASC Salmon Standard. (See definition of area under 3.2.1).			
		c. If the smolt supplier cannot provide the farm with evidence for 8.5b, provide documentary evidence that the farm uses only 100% sterile fish.	Salmo salar is native to region.	Compliant	
	Applicability: All Smolt Producers except as noted in [137]	d. If the smolt supplier cannot provide the farm with evidence for 8.5b or 8.5c, provide documented evidence for each of the following: 1) non-native species are separated from wild fish by effective physical barriers that are in place and well maintained; 2) barriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce; and 3) barriers ensure there are no escapes of biological material that might survive and subsequently reproduce.			
		e. Retain evidence as described in 8.5a-d necessary to show compliance of each facility supplying smolt to the farm.			
Footnote	[137] Exceptions shall be made for production systems	that use 100 percent sterile fish or systems that demonstrate separation from the wild by effective survive and subsequently to		f reared specimens or biological ma	terial that might

8.6	Indicator: Maximum number of escapees [138] in the most recent production cycle Requirement: 300 fish [139] Applicability: All Smolt Producers except as noted in [139]	a. Obtain documentary evidence to show that smolt suppliers maintained monitoring records of all incidences of confirmed or suspected escapes, specifying date, cause, and estimated number of escapees. b. Using smolt supplier records from 8.6a, determine the total number of fish that escaped. Verify that there were fewer than 300 escapees from the smolt production facility in the most recent production cycle. c. Inform smolt suppliers in writing that monitoring records described in 8.6a must be maintained for at least 10 years beginning with the production cycle for which the farm is first applying for certification (necessary for farms to be eligible to apply for the exception noted in [139]). d. If an escape episode occurs at the smolt production facility (i.e. an incident where > 300 fish escaped), the farm may request a rare exception to the Standard [139]. Requests must provide a full account of the episode and must document how the smolt producer could not have predicted the events that caused the escape episode.	a) No escaped according to internal statement. Internal Risk Assessment with instruction for registration and reporting. No incident reported. Verified by Fisheries Directorate escape incidents overviw (https://www.fiskeridir.no/) b) No incident reported. Verified by Fisheries Directorate escape incidents overviw (https://www.fiskeridir.no/) c) Internal smolt supplier. All records in Fish Talk	Compliant		
Footnote		[138] Farms shall report all escapes; the total aggregated number of es	capees per production cycle must be less than 300 fish.			
Footnote		r an escape event that is clearly documented as being outside of the farm's control. Only one succation. The farmer must demonstrate that there was no reasonable way to predict the events the intended to be covered under	at caused the episode. Extreme weather (e.g., 100-year storms) or accidents cause		•	
8.7	Indicator: Accuracy [140] of the counting technology or counting method used for calculating the number of fish Requirement: ≥98% Applicability: All Smolt Producers	 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. B. Review records to verify that accuracy of the smolt supplier's counting technology or counting method is ≥ 98%. 	a, b) Last secure point of counting in vaccination. Smolts suppliers have used following fish counters: Aquascan and Macro Serien from Vaki Makcro, Macro/Micro counter.99% accuracy. Verified by provider specsifications.	Compliant		99%
Footnote		[140] Accuracy shall be determined by the spec sheet for counting machines	and through common estimates of error for any hand counts.			

		Standards related to Principle	4		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
8.8	Indicator: Evidence of a functioning policy for proper and responsible treatment of non-biological waste from production (e.g., disposal and recycling) Requirement: Yes Applicability: All Smolt Producers	a. From each smolt supplier obtain a policy which states the supplier's commitment to proper and responsible treatment of non-biological waste from production. It must explain how the supplier's policy is consistent with best practice in the area of operation.	a) Forsan: Cermaq internal document "Avfallsplan Cermaq Norway" version 14, dated 27.03.18 with authorised service providers, Iris and Østbø on general and special waste. Public service on domestic, type of waste defined, domestic, special waste/chemicals, for recycling etc. An evidence of delivery to Østbø dated 10-12-2019 was seen.	Compliant	
		Note: see instructions for Indicator 4.6.1.			
	Indicator: Presence of an energy-use assessment verifying the energy consumption at the smolt production facility (see Appendix V subsection 1 for guidance and required components of the records and assessment) Requirement: Yes, measured in kilojoule/mt fish/production cycle Applicability: All Smolt Producers	a. Obtain records from the smolt supplier for energy consumption by source (fuel, electricity) at the supplier's facility throughout each year.			
		b. Confirm that the smolt supplier calculates total energy consumption in kilojoules (kj) during the last year.			
8.9		c. Obtain records to show the smolt supplier calculated the total weight of fish in metric tons (mt) produced during the last year.	a) Records OK in excel documents. b, c, d) Scope 1: 484517725.2 kj, Scope 2: 19692129600 kj, total scope 1+scope 2: 20176647325.2 kj	Compliant	16417181.48 kj/mt
		d. Confirm that the smolt supplier used results from 8.9b and 8.9c to calculate energy consumption on the supplier's facility as required and that the units are reported as kilojoule/mt fish/production cycle.	Total production: 1229 ton Total energy: 16417181.48 kj/mt biomass e) Records OK in excel. Continuous evaluation.		
		e. Obtain evidence to show that smolt supplier has undergone an energy use assessment in compliance with requirements of Appendix V-1. Can take the form of a declaration detailing a-e.			

		Note: see instructions for Indicator 4.6.2.				
		a. Obtain records of greenhouse gas emissions from the smolt supplier's facility.				
	Indicator: Records of greenhouse gas (GHG [141])	b. Confirm that, on at least an annual basis, the smolt supplier calculates all scope 1 and scope 2 GHG emissions in compliance with Appendix V-1.	a, b, c) Records OK			
8.10	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	c. For GHG calculations, confirm that the smolt supplier selects the emission factors which are best suited to the supplier's operation. Confirm that the supplier documents the source of the emissions factors.	Forsan Scope 1: emission from Fuel: 34208 kg CO2e Forsan Scope 2: emission from electricity: 1390290.66 kg CO2e Total scope 1:2: 1424498 36 kg CO2e	Compliant		1424498.26 kg CO2e
			e) Calculaitons and asessment provided by CO2 focus. Data from IEA 2013, SSB 2013, EIA 2011, IPCC 2006.			
		e. Obtain evidence to show that the smolt supplier has undergone a GHG assessment in compliance with requirements Appendix V-1 at least annually.				
Footnote	[141] For the purposes of this stand	lard, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide (CO ₂); metha	nne (CH ₄); nitrous oxide (N2O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs)	; and sulphur h	exafluoride (SF ₆).	
Footnote		[142] GHG emissions must be recorded using recognized methods,	, standards and records as outlined in Appendix V.			
		Standards related to Principle 5				
	T	Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
0.11	Indicator: Evidence of a fish health management plan, approved by the designated veterinarian, for the identification and monitoring of fish diseases and parasites	Obtain a copy of the supplier's fish health management plan for the identification and monitoring of fish disease and parasites.	a, b) Forsan: Internal Fish Health Plan. Plan covers all aspect of relevant diseases and parasite diagnostics and control measures. Approved and signed by	Compliant		
8.11	Requirement: Yes Applicability: All Smolt Producers	b. Keep documentary evidence to show that the smolt supplier's health plans were approved by the supplier's designated veterinarian.	veterinarian (fish health manager) dt 26.08.2019 .	Compliant		

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) Fish health plan covers all aspect of relevant diseases and parasite diagnostics and control measures. Approved and signed by veterinarians. b) In fish health plan and CV type 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. In the smolts CVs cheched the smolts are vaccinated to protect them against furunculosis, vibriosis, cold water vibriosis, infection with Moritella viscosa and IPNV. Different type of vaccines has been used, for example: Alpha Ject-micro-6 and Pentium Forte Plus	Compliant		
Footnote	[143] The farm's designated veterinarian is responsible for	or undertaking and providing written documentation of the analysis of the diseases that pose a auditor that this decision is consiste		ne which vaccina	tions to use and de	monstrate to the
	Indicator: Percentage of smolt groups [144] tested for select diseases of regional concern prior to entering the grow-out phase on farm	The farm is responsible for developing and maintaining a list of diseases of regional concer suspected to occur in sea The designated veterinarian to the smolt supplier is required to evaluate, based on scientific disease or a pathogen carrier state in fresh water is deemed to have a negative impact on the supplier of the season of the	water (and for which seawater fish-to-fish transmission is a concern). criteria and publicly available information, which diseases should be tested for. This	analysis shall inc analysis must be	lude an evaluation available to the CA	of whether clinical
8.13	Requirement: 100% Applicability: All Smolt Producers	a. Obtain from the smolt supplier a list of diseases of regional concern for which smolt should be tested. List shall be supported by scientific analysis as described in the Instruction above.	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.	Constitut		
		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 tests has been reported.	Compliant		
Footnote	transmission is a concern) but originating in freshwater sh	ase risk, including environment, husbandry and host factors that might contribute to sharing distinct of diseases tested. The designated veterinarian to the smolt farm is required bathogen carrier state in fresh water is deemed to have a negative impact on the grow-out phase	to evaluate, based on scientific criteria and publicly available information, which di	seases should be	tested for. This an	alysis shall include

8.14 aga dis	nerapeutants used during the smolt production cycle, the mounts used (including grams per ton of fish produced), ne dates used, which group of fish were treated and gainst which diseases, proof of proper dosing and all isease and pathogens detected on the site equirement: Yes pplicability: All Smolt Producers	- date(s) of treatment;	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	
	ndicator: Allowance for use of therapeutic treatments	and importing countries listed in [146].	"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		
8.15 [14 im]		with ASC certification.	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	Compliant	
Ар		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	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.		
Footnote		[145] "Banned" means proactively prohibited by a government e	ntity because of concerns around the substance.		<u> </u>
Footnote		[146] For purposes of this standard, those countries are Norway, the U	JK, Canada, Chile, the United States, Japan and France.	1 1	
mo	ndicator: Number of treatments of antibiotics over the nost recent production cycle	a. Obtain from the smolt supplier records of all treatments of antibiotics (see 8.14a).			
	pplicability: All Silloit Producers	 b. Calculate the total number of treatments of antibiotics from their most recent production cycle. 	a-b) No antibiotics used. Seen fish CV with all treatments identifed.	Compliant	

8.17	Indicator: Allowance for use of antibiotics listed as critically important for human medicine by the WHO [147] Requirement: None [148] Applicability: All Smolt Producers	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. 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.	a-c) Internal smolt supplier. Access to plans, procedures, and policies through Interlex or sharepoint. No antibiotics used. Seen fish CV with all treatments identifed.	Compliant	
Footnote	[147] T	The 3rd edition of the WHO list of critically and highly important antimicrobials was released in 2	2009 and is available at: http://www.who.int/foodborne_disease/resistance/CIA_3.	odf.	
Footnote		[148] If the antibiotic treatment is applied to only a portion of the pens on a farm site, fish	from 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).			
8.18	Indicator: Evidence of compliance [149] with the OIE Aquatic Animal Health Code [150] Requirement: Yes Applicability: All Smolt Producers	b. Inform the supplier that an ASC certified farm can only source smolt from a facility with policies and procedures that ensure that its smolt production practices are compliant with the OIE Aquatic Animal Health Code.	Seen statement on ASC requirements regarding OIE Aquatic Animal Health Code for smolt deliveries. The statement is signed by a designated veterinarians/fish health personnels.	Compliant	
		c. Obtain a declaration from the supplier stating their intent to comply with the OIE code and copies of the smolt suppliers policies and procedures that are relevant to demonstrate compliance with the OIE Aquatic Animal Health Code.			
Footnote		with the intentions of the Code, to be further outlined in auditing guidance. For purposes of this tation of quarantine zones in accordance with guidelines from OIE for the specific pathogen. Ex			udes depopulating
Footnote		[150] OIE 2011. Aquatic Animal Health Code. http	://www.oie.int/index.php?id=171.		
Footnote		[150] OIE 2011. Aquatic Animal Health Code. http	://www.oie.int/index.php?id=171.		

		Standards related to Principle	6		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
	Indicator: Evidence of company-level policies and procedures in line with the labor standards under 6.1 to 6.11	a. Obtain copies of smolt supplier's company-level policies and procedures and a declaration of compliance with the labor standards under 6.1 to 6.11.	Forsan is an internal supplier. Cermaq policies apply. Inspection from on		
8.19	Requirement: Yes Applicability: All Smolt Producers	b. Review the documentation and declaration from 8.19a to verify that smolt supplier's policies and procedures are in compliance with the requirements of labor standards under 6.1 to 6.11.	Norwegian Labour Inspection Authority (Arbeidstilsynet) on 21-06-2018. The NC was closed on 10-10-2018.	Compliant	
		Standards related to Principle	7		
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
		Farms must comply with Indicator 7.1.1 which requires that farms engage in regular consulta suppliers complies with an equivalent requirement. Farms are obligated to maintain evidence - the smolt supplier engaged in "regul - the supplier's consultations were effect		e documentary	
8.20	Indicator: Evidence of regular consultation and engagement with community representatives and organizations Requirement: Yes Applicability: All Smolt Producers	a. From each smolt supplier obtain documentary evidence of consultations and engagement with the community.	a) Several meetings for Cermaq sites in the region have been organized with stakeholders. For example an open meeting in Innhavet on 25.11.2019. Another meeting on 19-02-2019. The invitation was sent in 08.01.2019 to interested parties. The meeting was organised on 2019-02-19. 2 people attended in the meeting. Another meeting for the opening day of Arctic Salmon Center. ASC is mentioned		
		b. Review documentation from 8.20a to verify that the smolt supplier's consultations and community engagement complied with requirements.	- as an enviromental and sustainability certification . Another meeting with Steigen Community, open for public on 29-02-2020. Posted on social media, hanged in local shopes, relevant for all. The meeting for currents meeting has been cancelled due to Covid-19. A newsletter is prepared and will be sent to the stakeholders instead. b) Consultations have included main points required by the standard. No minutes of meeting just presentation of the activities and treatment.	Compliant	
8.21	Indicator: Evidence of a policy for the presentation, treatment and resolution of complaints by community stakeholders and organizations Requirement: Yes Applicability: All Smolt Producers	a. Obtain a copy of the smolt supplier's policy for presentation, treatment and resolution of complaints by community stakeholders and organizations.	a) The procedure for complaints was presented. Compliants are also collected and communicated through the stakeholders meetings.	Compliant	

8.22	Indicator: Where relevant, evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations Requirement: Yes Applicability: All Smolt Producers	a. Obtain documentary evidence showing that the smolt supplier does or does not operate in an indigenous territory (to include farms that operate in proximity to indigenous or aboriginal people (see Indicator 7.2.1). If not then the requirements of 8.22 do not apply. b. Obtain documentation to demonstrate that, as required by law in the jurisdiction: smolt supplier consulted with indigenous groups and retains documentary evidence (e.g. meeting minutes, summaries) to show how the process complies with 7.2.1b; OR smolt supplier confirms that government-to-government consultation occurred and obtains documentary evidence.	a-b) It was communicated during the application processing to start the sites. No consultation is required by low and regulations. c) No traditional and indigenous groups are involved.	Compliant	
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.	a) It was communicated during the application processing to start the sites. Based on 8.22 a) the requirements of 8.23. do not apply. b) No consultation is required by low and regulations.	Compliant	
	Applicability: All Smolt Producers	b. Where relevant, obtain documentary evidence that smolt suppliers undertake proactive consultations with indigenous communities. ADDITIONAL REQUIREMENTS FOR OPEN (NET-PEN)			
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	In addition to the requirements above, if the smolt is produced in an open system, No guidance available yet	evidence shall be provided that the following are met: 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	

ADDITIONAL REQUIREMENTS FOR SEMI-CLOSED AND CLOSED PRODUCTION OF SMOLTS Additionally, if the smolt is produced in a closed or semi-closed system (flow through or recirculation) that discharges into freshwater, evidence shall be provided that the following are met [157]: a. Obtain the water quality monitoring matrix from each smolt supplier (see 8.32b). Indicator: Minimum oxygen saturation in the outflow b. Review the results (8.33a) for percentage dissolved oxygen saturation in the effluent to (methodology in Appendix VIII-2) confirm that no measurements fell below 60% saturation. N/A 8.27 Requirement: 60% [156,157] NA Applicability: All Smolt Producers Using Semi-Closed or c. If a single DO reading (as reported in 8.33a) fell below 60%, obtain evidence that the smolt Closed Production Systems supplier performed daily continuous monitoring with an electronic probe and recorder for a least a week demonstrating a minimum 60% saturation at all times (Appendix VIII-2). Footnote [156] A single oxygen reading below 60 percent would require daily continuous monitoring with an electronic probe and recorder for at least a week demonstrating a minimum 60 percent saturation at all times. [157] See Appendix VI for transparency requirements for 8.33. Footnote a. Obtain documentation from smolt supplier(s) showing the results of macro-invertebrate Indicator: Macro-invertebrate surveys downstream from the farm's effluent discharge demonstrate benthic health that is similar or better than surveys upstream from the discharge (methodology in Appendix VIII-3) b. Review supplier documents (8.34a) to confirm that the surveys followed the prescribed 8.28 N/A methodology (Appendix VIII-3). Requirement: Yes Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems . 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. a. Maintain a copy of smolt supplier's biosolids (sludge) management plan and confirm that the plan addresses all requirements in Appendix VIII-2. Indicator: Evidence of implementation of biosolids b. Obtain from smolt suppliers a process flow diagram (detailed in Appendix VIII-2) showing (sludge) Best Management Practices (BMPs) (Appendix how the farm is dealing with biosolids responsibly. VIII-4) N/A 8.29 NA Requirement: Yes Obtain a declaration from smolt supplier stating that no biosolids were discharged into Applicability: All Smolt Producers Using Semi-Closed or natural water bodies in the past 12 months. Closed Production Systems d. Obtain records from smolt suppliers showing monitoring of biosolid (sludge) cleaning maintenance, and disposal as described in Appendix VIII-2.



11 Findings

- dings
 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	tatus Related VR (#) Root cause (by client)	Corrective/ preventive actions proposed by UoC and accepted by CAB	Deadline for NC close-out	Evaluation by CAB (including evidence)	Actual date of close- out	Date request for delay received	Justification for delay	Next deadline	Request evaluation by CAB	Date request approved
2020-SA2-1	3.1.1	Minor		Interview with the contact person and fish health personnel	03-04-2020 Del	syed	issues related to sealice only (not diseases in general). It was previously mandatory to participate in an ABM,	on a hearing and be discussed on their next meeting (not planned). Cermaq can not guarantee that the other partners in the ABM will approve of this change.	03-07-2020	The root cause and action plan is approved.			To be sure that the meeting has happend and that corrective actions has been made, Cermaq request a delay until next audit.		The request for delay is approved. The evidence of implementation will be eveluated in the next audit cycle.	31-05-2020
2020-SA2-2	5.1.6		Maximum unexplained mortality rate for last two production cycles (2017 and 2015) is 47.52%, meaning more than 40% (the ASC requirement). Maximum unexplained mortality rate for last two production cycles (2017 and 2015) is more than 40%.	Interview with the contact person and fish health personnel	03-04-2020 Clo	ed			03-07-2020	The root cause and action plan is approved. The evidence of action plan is also approved.	31-05-2020					
2020-SA2-3	5.1.7	Minor	No annual farm-specific mortalities reduction programme has been defined. Maximum unexplained mortality rate for last two production cycles (2017 and 2015) is more than 40%.	Interview with the contact person and fish health personnel	03-04-2020 Clo	ed	forsee the mortality. Every generation is different and biology is unpredictable. Causes of increased mortality can for example be due to changes in water quality, strong currents and heavy storms. Or unforseen incidents such as the algea blooming last spring. There is also uncertainty in smolt quality, meaning	good fish health and welfare. These are mentioned in the site-specific fish health plans. To learn from previous incidents and evaluate the generation, a closing meeting for each site is held after the generation has ended (internal QS document number 1280). A meeting is also held before starting a new generation (internal QS document number 927) bringing up awareness around previous struggles and incidents that may occour again to prepare the site and staff. Site specific riskeevaluations prior to a new generation is done where influencing factors is evaluated (internal QS documentnumber 366). Throughout the generation, frequently supervision by fish health personel and survailance of the fish health status at the site is done at every site (internal QS document number 280 and 276). When		The root cause and action plan is approved. The evidence of action plan is also approved.	31-05-2020					
2020-SA2-4	6.7.2		It was not clear how the NCs from the suppliers are handled. There is no procedure for handling the NCs from suppliers. NC was graded minor since the failure does not meet the definition of a major NC and will not produce a non- conforming product	·	03-04-2020 Del	ayed	The procedure has been revised to include more detailed handeling of non-conformaties given to our suppliers, but it has not been uploaded to the internal QS yet.	Before publishing the revised procedure, the changes has to be approved by several people that may be affected by the changes. Getting the approval from all people involved usually take some time.	03-07-2020	The root cause and action plan is approved.		18.05.2020	The procedure is at hearing, and will be published as soon as all people involved has approved it. This usually take some time, so be sure that it has been published, Cermaq request delay for closing to over the summer holiday.	01.09.2020	The request for delay is approved. The evidence of implementation will be eveluated in the next audit cycle.	31-05-2020

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.		
10.1					
	certified and non-certified product, including product of the same or similar appearance or	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.	NA		
10.2	The possibility of mixing or substitution of certified and non-certified product, including product of the same or similar appearance or species, present during production, harvest, transport, storage, or processing activities.	There is a risk of substitution of certified with non-certified product during trasport to harvest plant.	The risk is low as it is controlled by the ASC CoC Certification of the harvest plant. Transports are always identifiable on production unit level (cage). Only one site and one cage is harvested by the wellboats at a time.		
10.3	The possibility of subcontractors being used to handle, transport, store, or process certified products.	Wellboats carry live fish are subcontracted.	The subcontracted wellboats are covered by the ASC CoC certification of the harvest plant. Only approved wellboats are used to transport the fish between the site and waiting cages/harvest plant.		
10.4	Any other opportunities where certified product could potentially be mixed, substituted, or mislabelled with non-certified product before the point where product enters the chain of custody.	No other possibility for mixing products.	NA		



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

Number of sites included in the unit of certification

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

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

Owned by client	Subcontracted by client
1	
1	

Site name(s)

Reason(s)

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



10.6 Traceablity Determination:

10.6.1 The traceability and segregation systems in the operation are sufficient to ensure all products identified and sold as certified by the operation originate from the unit of certification, or	The traceability and segregation system is sufficient to ensure all products identified and sold as certified by the operation originate from the unit of certification
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	The CoC starts when fish have left the cage onto the wellboat or slaughterboat. After this, the ASC CoC certificate of the harvest plant takes over of the certified fish.
10.6.4 If a sepearate chain of custody certificate is required for the unit of certification	No

For Multi-site clients



ASC Audit Report - Closing

12 Evaluation Results

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

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

4 minor NCs were raised on the indicators 3.1.1, 5.1.6, 5.1.7, and 6.7.2

Following VRs were also used in the report.

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

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

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

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

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

12.2 A clear statement on whether or Svartfjell site has the capacity to meet the requirements of ASC standard 1.3 July 2019.

CAR v.2.1 - Audit report - Closing



123	In cases where BEIA or PSIA is
	available, it shall be added in fu
	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

IVA

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: 18-01-2019, Expiry date: 05-02-2021

13.4.2 The scope of the certificate

Production of Atlantic salmon (Salmo salar).

CAR v.2.1 - Audit report - Closing



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

14 Surveillence

ai veilleilee	
14.1 Next planned Surveillance	
14.1.1 Planned date	apr-21
14.1.2 Planned site	Svartfiell
14.2 Next audit type	
14.2.1 Surveillence 1	
14.2.2 Surveillance 2	
14.2.3	Х
Re-certification	
14.2.4 Other (specify	
type)	

CAR v.2.1 - Audit report - Closing