

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.

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 1.1 Name of CAB DNV GL PDF 1.2 Date of Submission O7.12.2017 PDF 1.3 CAB Contact Person PDF 1.3.1 Name of Contact Person Jan Petter Kosmo PDF 1.3.2 Position in the CAB's organization Lead Auditor



PDF 1.3.3 Mailing address	
PDF 1.5.5 Walling address	
DDF 1 2 4 Farail address	
PDF 1.3.4 Email address	
	jan.petter.kosmo@dnvgl.com
0054.2.5.01	
PDF 1.3.5 Phone number	
	+47 957 48 769
2224222	
PDF 1.3.6 Other	
PDF 1.4 ASC Name of Client PDF 1.4.1 Name of Company	
PDF 1.4.1 Name of Company	Nova Sea AS
	Nova Sea AS
PDF 1.4.2 Name of Contact Person	
PDF 1.4.2 Name of Contact Person	California
	Sabine Fossmo
DDF 1 4 2 Desition in the clientle	
PDF 1.4.3 Position in the client's organization	- m
organization	Quality manager
PDF 1.4.4 Mailing address	Nova Sea AS
	8764 LOVUND, NORWAY
	, .
PDF 1.4.5 Email address	
	sabine.fossmo@novasea.no

^{*} Except unannounced audits, for which this form will be sent to the ASC and AAB without being published



PFD 1.4.6 Phone number	+47 976 89 537
PDF 1.4.7 Other	Phone +47 75 09 19 00

PDF 1.5 Unit of Certification

PDF 1.5.1 Single Site PDF 1.5.2 Multi-site

PDF 1.5.3 Group certification

Single site

PDF 1.6 Sites to be audited

Site Name	GPS Coordinates	Other Location Information	Planned Site Audit(s)	Date of planned audit
Kalvhylla	65o44.897N / 12o32.430E	North Norway, Nordland County, Vevelstad Municipality. Receiving water body: Visten-ytre.	IA	Week 5-6 in 2018

PDF 1.7 Species and Standards

Standard	Species (scientific name) produced	Included in scope (Yes/No)	ASC endorsed standard to be used	Version Number
Salmon	Salmo salar	Yes	ASC	1.1



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

Name/organization	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
Mattilsynet	Authorities	Written notifications with request for submissions, and if needed telephone	Before audit and when draft report is published	Written notifications
Nordland Fylkeskommune	Local authorities	Written notifications with request for submissions, and if needed telephone	Before audit and when draft report is published	Written notifications
Kystverket	Authorities	Written notifications with request for submissions, and if needed telephone	Before audit and when draft report is published	Written notifications
Fiskeridirektoratet	Authorities	Written notifications with request for submissions, and if needed telephone	Before audit and when draft report is published	Written notifications
Fylkesmannen i Nordland	Local authorities	Written notifications with request for submissions, and if needed telephone	Before audit and when draft report is published	Written notifications
Nordland Fylkes Fiskarlag	Fishermen organization	Written notifications with request for submissions, and if needed telephone	Before audit and when draft report is published	Written notifications



Brønnøy Fiskarlag	Fishermen organization	Written notifications with request for submissions, and if needed telephone	Before audit and when draft report is published	Written notifications
Vevelstad Kommune	Local authorities	Written notifications with request for submissions, and if needed telephone	Before audit and when draft report is published	Written notifications
Stokka Grendeutvalg	Local neighbours	Written notifications with request for submissions, and if needed telephone	Before audit and when draft report is published	Written notifications
Stokka fritidsklubb	Social organization	Written notifications with request for submissions, and if needed telephone	Before audit and when draft report is published	Written notifications
VisitHelgeland	Tourist organization	Written notifications with request for submissions, and if needed telephone	Before audit and when draft report is published	Written notifications

PDF 1.9 Proposed Timeline

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PDF 1.9.1	Contract Signed:	27.10.2017
PDF 1.9.2	Start of audit:	29.01.2018



PDF 1.9.3	Onsite Audit(s):	Week 5-6 in 2018
PDF 1.9.4	Determination/ Decision:	Pending final certification decision in final report.

PDF 1.10 Audit Team

	Column1	Name	ASC Registration Reference
PDF 1.10.1	Lead Auditor	Jan Petter Kosmo	
PDF 1.10.2	Technical Experts		
PDF 1.10.3	Social Auditor	Darius Pamakstys	



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

- 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.

Nova Sea AS

- 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	Nova Sea AS
1.2 Report Title [e.g. Public Certification Report]	ASC Initial audit, draft report
1.3 CAB name	DNV GL
1.4 Name of Lead Auditor	Jan Petter Kosmo
1.5 Names and positions of report authors and reviewers	Jan Petter Kosmo - lead auditor, author of report Darius Pamakstys - social auditor Kjell Roar Bekkevold - lead auditor, reviewer
1.6 Client's Contact person: Name and Title	Sabine Fossmo - Quality manager
1.7 Date	05.03.2018
2 Table of Contents	
3 Glossary	

1/5 CAR v.2.0 - Audit report - Opening * working days



Terms and abbreviations that are specific to this audit report and that are not otherwise defined in the ASC glossary

1) MOM-B and MOM-C are surveys of benthic environment at or near farm, according to NS 9410 (Norwegian Standard 9410). 2) NFSA is Norwegian Food safety Authority. 3) ISA is Infectious salmon anemia virus. 4) BNW is basic need wage. 5) VR is variation request. 5) FHP is Fish health plan. 6) CV is "curriculum vitae" for a fish group. 7) IK is internal control system. 7) NINA is Norwegian institute for Nature Research. 9) IMR is Institute of Marine Research. 10) PD is Pancreas Disease. 11) VHP is Veterinary Health Plan. 12) HMS is HSE (Health, Safety and Environment). 13) H&S is Health and Safety. 14) PPE is Personal Protective Equipment. 15) OHS is Occupational Health and Safety.

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	ASC audit of Kalvhylla 36217, a seasite
4.2	A brief description of the operations of the unit of certification	Production of Atlantic salmon (Salmo salar)
4.3	Type of unit of certification (select only one type of unit of certification in the list)	Single farm
4.4	Type of audit (select all the types of audit that apply in the list)	Initial audit 2018
4.5	A summary of the major findings	Refer to report section II Audit template and IV Audit Report - Closing for NCs found during audit
4.6	The Audit determination	The Audit determination at draft report stage: Not yet compliant. May be considered compliant and recommended certified only after satisfactory closure of Major non-conformances and satisfactory closure or a corrective action plan for Minor non-conformances is implemented by the client and approved by DNV GL. • Final certification decision will be taken in final report after completion of stakeholder period. • Until final certification decision by DNV GL the applicant is NOT yet certified and can not claim ASC Aquaculture certification status.

5 CAB Contact I	5 CAB Contact Information			
5.1	CAB Name	DNV GL		
5.2	CAB Mailing Address	Veritasveien 1, 1322 Høvik, Norway		
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5.3	Email Address	jan.petter.kosmo@dnvgl.com		
5.4	Other Contact Information	Phone to DNV GL +47 67 57 99 00		

6 Background on the Applicant



6.1	Information on the Public Disclosure Form (Form 3) except 1.2-1.3 All information updated as necessary to reflect the audit as conducted.	Yes
6.2	A description of the unit of certification (for initial audit) / changes, if any (for surveillance and recertification audits)	The site is a conventional floating cage salmon farm. The production cages are floating circular cages 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 according to Norwegian legislation "NS-9415 NYTEK" regulations standard. Smolts supplied by Helgeland Smolt and Sundsfjord Smolt.
6.3	Other certifications currently held by the unit of certification	
6.4	Other certification(s) obtained before this audit	
6.5	Estimated annual production volumes of the unit of certification of the <u>current</u> year	2018: 4982 tons
6.6	Actual annual production volumes of the unit of certification of the <u>previous</u> year (mandatory for surveillance and recertification audits)	2017: 0 tons
6.7	Production system(s) employed within the unit of certification (select one or more in the list)	Net cages at sea
6.8	Number of employees working at the unit of certification	6
Scope 7.1	The Standard(s) against which the audit was conducted, including version number	ASC Salmon Standard, version 1.1 April 2017
7.2	The species produced at the applicant farm	Atlantic salmon (Salmo salar)
7.3	A description of the scope of the audit including a description of whether the unit of certification covers all production or harvest areas (i.e. ponds) managed by the operation or located at the included sites, or whether only a sub-set of these are included in the unit of certification. If only a sub-set of production or harvest areas are included in the unit of certification these shall be clearly named.	The site is a seasite with 9 cages of which all are in use for this generation. All cages were covered by the audit

7



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

Fish goes directly from the seasite to the slaughterhouse.

processing, or distribution sites included in Only approved wellboats is used during transhipments of salmon between the site and holding the operation (including subcontracted cages/harvest plant.

Biosecurity legislation and implemented QMS management system and procedures at the site and within the company prevent the wellboats from visiting other salmon farms/sites without cleaning/disinfection. The possibility for mixture of salmon in holding cages from salmon from other farm/sites is also prevented by biosecurity legislation and implemented QMS management system and procedures at the site and within the harvesting/processing plant used.

There are slaughtered fish from only one holding cage at a time in the harvest/processing plant Transports are always identifiable on production unit level (cage).

All information is kept in electronic system FishTalk and in hard copies.

7.5 Description of the receiving water body(ies).

The farm is located in the fiord Visten - ytre in Nordland county. Site's receiving water-body is Vefsenfjorden - Leirfjorden (Vevelstad municipality). Regional water-body authority is Nordland County. This is a sheltered coastal/fiord water area. Categorized as a sheltered coastal/fiord, of Euhaline nature (>30% salinity). Ecological quality is defined as good. Chemical condition is not defined in public documentation. Details www.vann-nett.no

The site is under voluntary ABM system. There is other salmon farming activity in the area. There are natural wild salmon populations in the area. Overview of salmon watercourses in the area are available in map tools from the Environment Agency /

Salmon Registry: http://lakseregister.fylkesmannen.no/

8 Audit Plan

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

Jan Petter Kosmo, lead auditor Darius Pamakstys, social auditor Kjell Roar Bekkevold, technical reviewer Onsite audit was finished 08.02.2018

Initial audit draft report sent to technical review 23.02.2018

Technical Review of Initial audit draft report were finished 25.02.2018

Initial audit draft report sent to ASC 05.03.2018

Final Report finished NA

Technical review of Final Report finished NA

Standard

Final report sent ASC NA

8.2 Previous Audits (if applicable):

NC reference clause number reference	Closing deadline - status - closing date of each NC

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

8.4 Audit plan as implemented including:

		Dates	Locations
8.4.1	Desk Reviews		
		04.12.2018	
8.4.2	Onsite audits	29.01.2018 -	
		09.02.2018	Onsite
8.4.3	Stakeholder interviews and Community meetings		No submissions received from notified stakeholders.
8.4.4	Draft report sent to client	22.02.2018	Initial audit 2018 report
· · · ·	State operation to shell		



8.4.5 Draft report sent to ASC

8.5.5 Final report sent to Client and ASC

05.03.2018	Initial audit 2018 report
NA	Initial audit 2018 report

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

Odd Strøm - Managing director Sabine Fossmo - Quality manager Odd Stensland - Production manager sea Bjørn Olvik - Sales director

Stian Amble - Advisor biology/quality Samuel Anderson - Environment controller

Line Holm - Quality manager Helgeland Smolt and Sundsfjord Smolt

Torleif Olaisen - HR

Kristian Pettersen - HR advisor Julie Huru - HR manager Birgitte Fjellgaard - HR advisor

Oddmund Hansen - site manager Kalvhylla

Kristin Ottesen - veterinarian HaVet

The audit was held in the company's office at Lovund, focusing on technical and legal matters, mainly, with relevant operational and administrative staff present. The second part of the audit comprised a visit to the site, covering remaining technical and administrative issues and completed the social responsibility issues. The audit was conducted as document reviews (digital and hard-copy information) as well as interviews conducted with relevant staff including site staff, typically a combination of document reviews and staff interviews. The interviews pertinent to the Social Responsibility Section of the ASC Salmon Standard were held in conditions allowing for confidentiality of the dialogues and under no constraints of free speech of the interviewees. These interviewees are not named in the report for the same reason. Demonstrations of equipment and processes took place, relevant to the scope of the audit, according to the ASC Salmon Standard v1.1 and following guidelines in the ASC Salmon Audit Manual v1.1.

Stakeholder submissions, including written or other documented information and CAB written responses to 8.8 each submission.

Name of stakeholder (if permission given to make name public)	Relevance to be contacted	Date of contact	CAB responded Yes/No	Brief summary of points Raised	Use of comment by CAB	Response sent to stakeholder



AUDIT MANUAL - ASC Salmon Standard v1.1
Scope: species belonging to the genus Salmo and Oncorhynchus

INSTRUCTION TO FARMS/AUDITORS:
This audit manual was developed to accompany version 1.1 of the ASC Salmon Standard.

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

		PRINCIPLE 1: COMPLY WITH ALL APPLICABLE NATIONA Criterion 1.1 Compliance with all applicable local and natio				
		Compliance Criteria (Required Client Actions):	Audit evidence 1. Write down all audit evidence for each compliance criterion (CC). 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 explanatory text in the "Audit Evidence" column as appropriate. 3. If you see any Compliance Criteria which is not listed below, please describe also in the cells below.	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.	Quality system "Landax" with link to relevant laws, regulations and requirements in procedures. Link to applicable laws and regulations on frontpage of Landax and automatic email to quality manager if new version.			
	Indicator: Presence of documents demonstrating compliance with local and national regulations and requirements on land and water use	b. Maintain original (or legalized copies of) lease agreements, land titles, or concession permit on file as applicable.	Discharge license from Fylkesmannen i Nordland 13.07.2016 for Kalvhylla MAB 3120 ton. License from Nordland Fylkeskommune 23.08.2016 for Kalvhylla MAB 3120 ton and Rensøya N MAB 3600 ton, licenses N ME0001 and N ME0005.			
	Requirement: Yes Applicability: All	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).	Inspection by Directorate of Fisheries 24.10.2017, 2 deviations, Letter from Directorate of Fisheries 12.12.2017 stating corrective actions are satisfying. Inspection by NFSA 24.10.2017, 2 deviations. Letter from NFSA 27.11.2017, case closed. No inspections by Fylkesmannen Nordland in 2017/2018.	· Compliant		
		d. Obtain permits and maps showing that the farm does not conflict with national preservation areas.	Not within conservation area, seen map from Norwegian Environment Agency with protected areas. Impact on the area is evaluated in permit documents and further risk assessed.			
		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.	Nova Sea AS registered in official register "Brønnøysundregistrene" with nr. 961056268. Authorised auditor statement for 2016 from pwc - P.E.P 10.05.2017.			
	Indicator: Presence of documents demonstrating compliance with all tax laws	b. Maintain copies of tax laws for jurisdiction(s) where company operates.	Online access to lovdata.no with laws and regulations.			
		c. Register with national or local authorities as an "aquaculture activity".	Nova Sea AS registered in official register "Brønnøysundregistrene" with nr. 961056268. License from Nordland Fylkeskommune 23.08.2016 for Kalvhylla MAB 3120 ton and Rensøya N MAB 3600 ton, licenses N ME0001 and N ME0005. Operation plan ("Driftsplan") for 2018 approved by Directorate of Fisheries 10.01.2018 for sites in Nova Sea AS, includes Kalvhylla present generation 20176 (planned new generation 01.01.2019, 1,2 million smoth), Renga present generation 20176 (planned new generation 5.07.2019, 1,0 million smoth), Renga present generation 20176 (planned new generation 16.07.2019, 1,3 million smoth), Rensøya N present generation 20176 (planned new generation 16.07.2019, 1,3 million smoth), Rensøya N present generation 20176 (planned new generation 10.01.2019, 1,35 million smoth).	Compliant		
	Indicator: Presence of documents demonstrating compliance with all relevant national and local labor laws and regulations	Maintain copies of national labor codes and laws applicable to farm (scope is restricted to the farm sites within the unit certification.)	Online access to lovdata.no with laws and regulations.			
1.1.3	Requirement: Yes Applicability: All	b. Keep records of farm inspections for compliance with national labor laws and codes (only if such inspections are legally required in the country of operation).	No inspections by "Arbeidstilsynet" registered in present generation on site.	Compliant		
	Indicator: Presence of documents demonstrating compliance with regulations and permits concerning water quality impacts	a. Obtain permits for water quality impacts where applicable.	Discharge license from Fylkesmannen i Nordland 13.07.2016 for Kalvhylla MAB 3120 ton. Operation plan ("Driftsplan") for 2018 approved by Directorate of Fisheries 10.01.2018 for sites in Nova Sea AS, includes Kalvhylla present generation 20176 (planned new generation 0.10.12.019, 1,2 million smoth), Bukkyap present generation 20176 (planned new generation 15.07.2019, 1,0 million smoth), Benga present generation 20176 (planned new generation 15.07.2019, 1,3 million smoth), Bensaya N present generation 20176 (planned new generation 16.09.2018, 0,8 million smoth) and Stokkasjøen present generation 2017G (planned new generation 0.10.1.2019, 1,35 million smoth).	Compliant		
	Requirement: Yes Applicability: All	b. Compile list of and comply with all discharge laws or regulations.	As described in above permits. MOM-B report by Helgeland Havbruksstasjon November 2014, status 1. ASC survey by AquaKompetanse November 2017, 292-11-17C KALVHYLLA			
		c. Maintain records of monitoring and compliance with discharge laws and regulations as required.	Biomass reported to government via Altinn end of each month, e.g. report for December 2017, reported per 31.12.2017 biomass 2112 tons (9 cages). Environmental reports and surveys reported to Altinn, seen MOM-B at Directorate of Fisheries website.			
Footnote	[1] Closed production systems that can demon	PRINCIPLE 2: CONSERVE NATURAL HABITAT, LOCAL BIOD Criterion 2.1 Benthic biodiversity and strate that they collect and responsibly dispose of > 75% of solid nutrients from the producti		on transparence	y for 2.1.1, 2.1.2 and 2.1	3.
nstruction to or farms loca he total numl	Clients and CABs on Criterion 2.1 - Modification of the B	ienthic Sampling Methodology ions are required under law, clients may request to modify the benthic sampling methodolog all provide a full justification to the CAB for review. Requests for modification shall be suppo	gy prescribed in Appendix I-1 to allow for sampling at different locations and/or changes in			
	aluate client requests to modify benthic methodology base ure that details of the modified benthic sampling methodo	ed on whether there is a risk that such changes would jeopardize the intent and rigor of the A ology are fully described and justified in the audit report.	ASC Salmon Standard. If the CAB determines that proposed modifications are low risk, the			
		Note: Under Indicator 2.1.1, farms can choose to measure redox potential (Option #1) or su threshold values.	phide concentration (Option #2). Farms do not have to demonstrate that they meet both			
		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.	ASC survey by AquaKompetanse November 2017 (field work 17.11.2017), report 292-11- 17C KALVHYLLA, Olex map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC ref 2, stations outside AZE: ASC 2 and ASC 4, stations inside AZE: ASC 1 and ASC 3).			
		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.	Reference stations: ASC ref 1 and ASC ref 2. Stations outside AZE: ASC 2 and ASC 4. Stations inside AZE: ASC 1 and ASC 3.			
	Indicator: Redox potential or [2] sulphide levels in	c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard.	Option 1			



2.1.1	sediment outside of the Allowable Zone of Effect (AZE) [3], following the sampling methodology outlined in Appendix 1-1 Requirement: Redox potential > 0 mV or Sulphide \$1,500 \text{ µma/L} Applicability: All farms except as noted in [1]	d. Collect sediment samples in accordance with the methodology in Appendix I-1 (i.e. at the time of peak cage biomass and at all required stations). 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.	MOM-C not performed at peak biomass (at >75% peak biomass) last production cycle. Redox potential at stations outside AZE not >0: ASC 2: -71 ASC 4: 42 Redox potential measured according to national regulation (NS 9410:2016)	Minor	MOM-C not performed at peak biomass (at 175% peak biomass) last production cycle. Redox potential at stations outside AZE not 50. ASC 2: -71 ASC 4: 42	Min71
		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.	Submitted to ASC 09.02.2018			
Footnote		[2] Farm sites can choose whether to use redox or sulphide.	Farms do not have to demonstrate that they meet both.			
Footnote	[3] Allowable Zone of Effect (AZE) is defined under t		robust and credible modeling system such as the SEPA AUTODEPOMOD and verified through	monitoring, the	site-specific AZE shall be	used.
		Notes: - Under Indicator 2.1.2, farms can choose one of four measurements to show compliance wi (Option #3), or ITI (Option #4). Farms do not have to demonstrate that they meet all four th - If a farm is exempt due to hard bottom benthos (see 2.1.1b), then 2.1.2 does not apply and				
		a. Prepare a map showing the AZE (30 m or site specific) and sediment collections stations (see 2.1.1).	ASC survey by AquaKompetanse November 2017 (field work 17.11.2017), report 292-11- 17C KALVHYLLA, Olex map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC ref 2, stations outside AZE: ASC 2 and ASC 4, stations inside AZE: ASC 1 and ASC 3).			
		b. Inform the CAB whether the farm chose option #1, #2, #3, or #4 to demonstrate compliance with the requirement.	#1 AZTI Marine Biotic Index used			
		c. Collect sediment samples in accordance with Appendix I-1 (see 2.1.1).	MOM-C not performed at peak biomass (at >75% peak biomass) last production cycle.			
	Indicator: Faunal index score indicating good [4] to high	d. For option #1, measure, calculate and record AZTI Marine Biotic Index [5] score of sediment samples using the required method.	Stations outside AZE: ASC 2: 2,51 ASC 4: 2,57			
2.1.2	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 \$ 1.5 \text{Amonon-Wiener Index score > 3, or \$ 1.5 \text{Benthic Quality Index (BQI) score ≥ 15, or \$ 1.5 \text{Infaunal Trophic Index (ITI) score ≥ 25} \$ 1.5 \text{Applicability: All farms except as noted in [1] }	e. For option #2, measure, calculate and record Shannon-Wiener Index score of sediment samples using the required method.	#1 AZTI Marine Blotic Index used	Minor	MOM-C not performed at peak biomass (at >75% peak biomass) last production cycle.	: Max. 2,57
		f. For option #3, measure, calculate and record Benthic Quality Index (BQI) score of sediment samples using the required method.	#1 AZTI Marine Biotic Index used			
		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.	#1 AZTI Marine Blotic Index used Field work, sorting, specie identification and calculation according to NS-EN ISO 16665:2013/NS-EN IS1 5667:2004. Evaluation benthos according to NS 9410:2016 and guidance 02:2013. Sediment analyzed using ID-Gene sedimentary DNA bioassessment test.			
		i. Submit faunal index scores to ASC (Appendix VI) at least once for each production cycle.	Submitted to ASC 09.02.2018			
Footnote	[4] "Good" Ecological Quality Cla	I ssification: The level of diversity and abundance of invertebrate taxa is slightly outside the ra	I unge associated with the type-specific conditions. Most of the sensitive taxa of the type-specif	ic communities	are present.	
Footnote		[5] http://www.azti.es/en/ambi-a	uzti-marine-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.	ASC Survey by AguaKompetanse November 2017 (field work 17.11.2017), report 292-11- 17C KALVHYLLA, Olex map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC ref 2, stations outside AZE: ASC 2 and ASC 4, stations inside AZE: ASC 1 and ASC 3).			
		b. For sediment samples taken within the AZE, determine abundance and taxonomic composition of macrofauna using an appropriate testing method.	Field work, sorting, specie identification and calculation according to NS-EN ISO 16665:2013/NS-EN ISI 5667:2004. Evaluation benthos according to NS 9410:2016 and guidance 02:2013. Sediment analyzed using ID-Gene sedimentary DNA bioassessment test.			
	Indicator: Number of macrofaunal taxa in the sediment within the AZE, following the sampling methodology outlined in Appendix 1 Requirement: ≥ 2 highly abundant [6] taxa that are not pollution indicator species Applicability: All farms except as noted in [1]	c. Identify all highly abundant taxa [6] and specify which ones (if any) are pollution indicator species.	Stations inside AZE: ASC 1: 22 ASC 3: 22	Compliant		≥2
		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.	Field work, sorting, specie identification and calculation according to NS-EN ISO 16665:2013/NS-EN IS 16667:2004. Fealuation benthos according to NS 9410:2016 and guidance 02:2013. Sediment analyzed using ID-Gene sedimentary DNA bioassessment test.			
		e. Submit counts of macrofaunal taxa to ASC (Appendix VI) at least once for each production cycle.	Submitted to ASC 09.02.2018			
Footnote		[6] Highly abundant: Greater than 100 organisms per square meter (or equal	ly high to reference site(s) if natural abundance is lower than this level).			
		a. Undertake an analysis to determine the site-specific AZE and depositional pattern.	ASC survey by AquaKompetanse November 2017 (field work 17.11.2017), report 292-11- 17C KALVHYLLA, Ole map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC ref 2, stations outside AZE: ASC 2 and ASC 4, stations inside AZE: ASC 1 and ASC 3).			



2.1.4 Footnote Footnote	Indicator: Definition of a site-specific AZE based on a robust and credible [7] modeling system Requirement: Yes Applicability: All farms except as noted in [1] [7] Robust and credible: The SEPA AUTODE	Criterion 2.2 Water quality in and near th Compliance Criteria (Required Client Actions): [8] See Appendix VI for transparency requir Instruction to Clients for Indicator 2.2.1 - Monitoring Average Weekly Percent Saturation	Auditor Evaluation (Required CAB Actions): ements for 2.2.1, 2.2.2, 2.2.3 and 2.2.5. of Dissolved Oxygen verage weekly percent saturation of dissolved oxygen (DO). Key points of the method are as	Compliant the AZE propo	osed through the model.	
	Indicator: Weekly average percent saturation [9] of dissolved oxygen (DO) [10] on farm, calculated following	- equipment is calibrated according to manufacturer's recommendations;measurements are taken at least twice daily: one in the morning (6-5 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 experiencesach week, all DO measurements are used in the calculation of a weekly average percent: If monitoring deviates from prescribed sampling methodology, the farm shall provide the at limited and well-justified situations, farms may request that the CAB approve reduction of E	by fish (e.g. at the downstream edge of a net pen array): aturation. uditor with a written justification (e.g. when samples are missed due to bad weather). In 10 monitoring frequency to one sample per day. ge saturation requirement, the farm must demonstrate the consistency of percent saturation tepen array, in a location that is understood to follow similar patterns in upwelling to the culture, agricultural runoff or nutrient releases from coastal communities. For any such ated consistency with the reference site.			
2.2.1	onsovered oxygen (CV) (13 of ham, calculated following methodology in Appendix I-4 Requirement: ≥ 70% [11] Applicability: All farms except as noted in [11]	a. Monitor and record on-farm percent saturation of DO at a minimum of twice daily using a calibrated oxygen meter or equivalent method. For first audits, farm records must cover ≥ 6 months. b. Provide a written justification for any missed samples or deviations in sampling time. c. Calculate weekly average percent saturation based on data.	Nortek "Realfish" continuos logging of oxygen and temperature at 2 sampling stations (3 meters depth inside and outside cage). Seen record for the period week 29 in 2017 to 6 in 2018. Minimum 85,4% oxygen and minimum 7,5 mg oxygen per liter. No missing data Nortek "Realfish" continuos logging of oxygen and temperature at 2 sampling stations (3 meters depth inside and outside cage). Seen record for the period week 29 in 2017 to 6 in 2018. Minimum 85,4% oxygen and minimum 7,5 mg oxygen per liter.	Compliant		Min.
		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.	No measurements below 70% dissolved oxygen has been registered/observed. No measurements below 2 mg/l dissolved oxygen has been registered/observed. Seen Nortek "Realfish" system at site. Calibratration and service per year/generation at supplier.	·		85,4%
		f. Submit results from monitoring of average weekly DO as per Appendix VI to ASC at least once per year.	Submitted to ASC 09.02.2018			
Footnote	[9] Per	cent saturation: Percent saturation is the amount of oxygen dissolved in the water sample or [10] Averaged weekly from two daily meass	ompared to the maximum amount that could be present at the same temperature and salinit prements (proposed at 6 am and 3 pm).	/-		
Footnote		[11] An exception to this standard shall be made for farms that can dem				
2.2.2	Indicator: Maximum percentage of weekly samples from 2.2.1 that fall under 2 mg/L DO Requirement: 5%	a. Calculate the percentage of on-farm samples taken for 2.2.1a that fall under 2 mg/L DO.	All above limits.	Compliant		>2mg/l
	Applicability: All	b. Submit results from 2.2.2a as per Appendix VI to ASC at least once per year.	Submitted to ASC 09.02.2018			
2.2.3	Indicator: For jurisdictions that have national or regional coastal water quality targets [12], demonstration through third-party analysis that the farms is n an area recently [13] classified as having "good" or "very good" water quality [14].	a. Inform the CAB whether relevant targets and classification systems are applicable in the jurisdiction. If applicable, proceed to "2.2.3.b". If not applicable, take action as required under 2.2.4 b. Compile a summary of relevant national or regional water quality targets and classifications, identifying the third-party responsible for the analysis and classification.	Ecologic state for coastal water in Vevelstad community at website vann-nett (run by The Norwegian Water Resources and Energy Directorate) shows 8,3% very good and 91,7% good. Ecologic state for coastal water in Vevelstad community at website vann-nett (run by The Norwegian Water Resources and Energy Directorate) shows 8,3% very good and 91,7% good.	Compliant		
	Requirement: Yes [15] Applicability: All farms except as noted in [15]	c. Identify the most recent classification of water quality for the area in which the farm operates.	Ecologic state for coastal water in Vevelstad community at website vann-nett (run by The Norwegian Water Resources and Energy Directorate) shows 8,3% very good and 91,7% good.			
Footnote Footnote		[12] Related to nutrients (e [13] Within the two year				
Footnote	[14] Classi	nt classification from other water quality monitoring systems in other jurisdictions are accept	able.			
Footnote	[15] Closed production systems that car	demonstrate the collection and responsible disposal of > 75% of solid nutrients as well as >	50% of dissolved nutrients (through biofiltration, settling and/or other technologies) are exer	npt from stand	dards 2.2.3 and 2.2.4.	
	Indicator: For jurisdictions without national or regional coastal water quality targets, evidence of monitoring of nitrogen and phosphorous [16] levels on farm and a coastal water quality and the coastal properties of the coas	 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. 	Ecologic state for coastal water in Vevelstad community at website vann-nett (run by The Norwegian Water Resources and Energy Directorate) shows 8,3% very good and 91,7% good.			
2.2.4	reference site, following methodology in Appendix I-5 Requirement: Consistency with reference site	b. Calibrate all equipment according to the manufacturer's recommendations.	Ecologic state for coastal water in Vevelstad community at website vann-nett (run by The Norwegian Water Resources and Energy Directorate) shows 8,3% very good and 91,7% good.	Compliant		
	Applicability: All farms except as noted in [16]	c. Submit data on N and P to ASC as per Appendix VI at least once per year.	Ecologic state for coastal water in Vevelstad community at website vann-nett (run by The Norwegian Water Resources and Energy Directorate) shows 8,3% very good and 91,7% good.			
Footnote		[16] Farms shall monitor total N, NH4, NO3, total P and Ortho-P in the water column. Resu	Its shall be submitted to the ASC database. Methods such as a Hach kit are acceptable.			



2.2.5	Indicator: Demonstration of calculation of biochemical oxygen demand (BOD [17]) of the farm on a production cycle basis Requirement: Yes Applicability: All	Instruction to Clients for Indicator 2.2.5 - Calculating Biochemical Oxygen Demand Biochemical Oxygen Demand (BOD) can be calculated based on cumulative inputs of N and C to the environment over the course of the production cycle. BOD = (Icotal N in feed - Lotal N in fish)*4.57) + (Icotal C in feed - total C in fish)*2.67). • A farm may deduct N or C that is captured, filtered or absorbed through approaches such as IMTA or through direct collection of nutrient wasted. In this equation, "fish" refers to harvested fish. In this case, farm must submit breakdown of N & C captured/filtered/absorbed to ASC along with method used to estimate nutrient reduction. • Reference for calculation methodology: Boyd C. 2009. Estimating mechanical aeration requirement in shrimp ponds from the oxygen demand of feed. In: Proceedings of the World Aquaculture Society Meeting: Sept 25-29, 2009; VeraCruz, Mexico. And: Global Aquaculture Performance Index BOD calculation methodology available at http://web.wic.ca/"gap/lexplore-gap/bod.html. Note 1: Calculation requires a full production cycle of data and is required beginning with the production cycle first undergoing certification. If it is the first audit for the farm, the client is required to demonstrate to the CAB that data is being collected and an understanding of the calculations. Note 2: Farms may seek an exemption to Indicator 2.2.5 if: the farm collects BOD samples at least once every two weeks, samples are independently analyzed by an accredited laboratory, and the farm can show that BOD monitoring results do not deviate significantly from calculated annual BOD load.				
		Collect data throughout the course of the production cycle and calculate BOD according to formula in the instruction box.	No full cycles yet. Present cycle 2017G (from release to 28.01.2017): BOD (mTO2) 2109 Full production cycle will be provided when fish is harvested, will be followed up at SA1.	Compliant		2109
		b. Submit calculated BOD as per Appendix VI to ASC for each production cycle.	Submitted to ASC 09.02.2018			
Footnote			illitered or absorbed through approaches such as IMTA or through direct collection of nutrient of feed. In: Proceedings of the World Aquaculture Society Meeting; Sept 25-29, 2009; VeraCntp://web.uvic.ca/~gapi/explore-gapi/bod.html.			
	Indicator: Appropriate controls are in place that maintain good culture and hygienic conditions on the farm which extents to all chemicals, including veterinary	a. Document control systems in good culture and hygiene that includes all appropriate elements.	Approved veterinary drugs according to VHP. Substitution of chemicals to reduce use of harmful chemicals. Seen cleaning plan "cenholdsplan" 16.02.2016 and cleaning log, e.g. Cleaning of boat 08.02.2018, 05.02.2018, 29.01.2018 and 22.01.2018.			
2.2.6	drugs, thereby ensuring that adverse impacts on environmental quality are minimized. Requirement: Yes	b. Apply the systems ensuring that staff are aware, qualified and trained to properly implement them.	Verified during audit	Compliant		
	Applicability: All		ASC survey by AquaKompetanse November 2017 (field work 17.11.2017), report 292-11- 17C KALVHYLIA, Olex map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC ref 2, stations outside AZE: ASC 2 and ASC 4, stations inside AZE: ASC 1 and ASC 3).			
		Criterion 2.3 Nutrient release fro				
		Compliance Criteria (Required Client Actions): Note: The methodology given in Appendix I/2 is used to date	Auditor Evaluation (Required CAB Actions): ermine the fines (dust and small fragments) in finished product of fish feed which has a diame:	ter of 3 mm or	more	
		note. The included by given in the periods 12 is used to deter	T		more.	
2.3.1	Indicator: Percentage of fines [18] in the feed at point of entry to the farm [20] (calculated following methodology in Appendix I-2) Requirement: < 1% by weight of the feed	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.	Procedure "Mottakskontroll av for og foravvikshåndtering" 21.12.2017, describes quarterly testing, sampling method, fede reception, etc. Instruction "Instruks for kontroll av for og foringsanlegg for støv og knus" 03.01.2018 describes samples size, sieve opening size, etc.		Not seen testing on farm of feed (percentage of fines).	
	Applicability: All farms except as noted in [19]	b. If using a sieving machine, calibrate equipment according to manufacturer's recommendations. c. Conduct test according to detailed methodology in Appendix I-2 and record results for	Appropriate testing technology as per ASC Not seen testing on farm of feed (percentage of fines). Seen test results from supplier	Minor	Seen test results from supplier Skretting with all samples below 1% fines in feed.	
		the pooled sample for each quarter. For first audits, farms must have test results from the last 3 months. $\\$	Skretting with all samples below 1% fines in feed.			
Footnote	[18] Fines: Dust and fragments in the feed. Particles that	t separate from feed with a diameter of 5 mm or less when sieved through a 1 mm sieve, or from feed bags after they	particles that separate from feed with a diameter greater than 5 mm when sieved through a are delivered to farm).	2.36 mm sieve.	To be measured at farm	gate (e.g.,
Footnote		nonths. Samples that are measured shall be chosen randomly. Feed may be sampled immed emonstrate the collection and responsible disposal of > 75% of solid nutrients and > 50% of	iately prior to delivery to farm for sites with no feed storage where it is not possible to sample dissolved nutrients (through biofiltration, settling and/or other technologies) are exempt.	on farm. Close	ed production systems th	at can
		Criterion 2.4 Interaction with critical or sens				
		Compliance Criteria (Required Client Actions): Note: If a farm has previously undertaken an independent assessment of biodiversity imp	Auditor Evaluation (Required CAB Actions): act (e.g. as part of the regulatory permitting process), the farm may use such documents as e	vidence to dem	onstrate compliance with	h Indicator
			long as all components in Appendix I-3 are explicitly covered.	vidence to dem	onstate compitatice with	i indicator
	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 1-3	a. Perform (or contract to have performed) a documented assessment of the farm's potential impact on biodiversity and nearby ecosystems. The assessment must address all components outlined in Appendix I-3.	Report "Lokal miljøvurdering" in 2017 assesses potential impacts by possible treatments and medicines. Risk assessments in Landax covers escape, feed waste, chemicals, light, noise, mammals, birds, waste, copper, sedation, exhaust, raw material feed, predators, etc.			
2.4.1	Requirement: Yes Applicability: All	b. If the assessment (2.4.1a) identifies potential impact(s) of the farm on biodiversity or nearby critical, sensitive or protected habitats or species, prepare plan to address those potential impacts.	Risk assessments evaluated and updated regularly. Separate plans for reducing risk.	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.	Report "Lokal miljøvurdering" in 2017 assesses potential impacts by possible treatments and medicines. Risk assessments in Landax covers escape, feed waste, chemicals, light, noise, mammals, birds, waste, copper, sedation, exhaust, raw material feed, predators, etc.			
	Indicator: Allowance for the farm to be sited in a protected area [20] or High Conservation Value Areas	Instruction to Clients for Indicator 2.4.2 - Exceptions to Requirements that Farms are not sited within Protected Areas or HCVAs The following exceptions shall be made for indicator 2.4.2: Exception #1: For protected areas classified by the international Union for the Conservation of Nature (IUCN) as Category V or VI (these are areas preserved primarily for their landscapes or for sustainable resource management). Exception #2: For HCVAs if the farm can demonstrate that its environmental impacts are compatible with the conservation objectives of the HCVA designation. The burden of proof would be placed on the farm to demonstrate that it is not negatively impacting the core reason an area has been identified as a HCVA. Exception #3: For farms located in a protected area if it was designated as such after the farm was already in operation and provided the farm can demonstrate that its environmental impacts are compatible with the conservation objectives of the protected area and it is in compliance with any relevant conditions or regulations placed on the farm as a result of the formation/designation of the protected area. The burden of proof would be placed on the farm to demonstrate that it is not negatively impacting the core reason an area has been protected. Definitions Protected area: "A clearly defined geographical space, recognized, dedicated and managed through legal or other effective means, to achieve the long-term conservation of nature with associated ecosystem services and cultural values."				
2.4.2	High Conservation Value Areas [I (HCVAs) High Conservation Value Areas (HCVA): Natural habitats where conservation values are considered to be of outstanding significance or critical importance. HCVA are designated through a multi-stakeholder approach that provides a systematic basis for identifying critical conservation values—both social and environmental—and for planning ecosystem management in order to ensure that these high conservation values are maintained or enhanced					



ı	Applicaulity: All faillis except as noted ill [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).	Not within conservation area, seen map from Norwegian Environment Agency with protected areas.			
		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.	Statement site not in HCVA, 29.11.2017 signed Odd Strøm - Nova Sea AS.			
		C. If the farm is 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.	Not within HCVA	N/A	Not within HCVA	
		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.	Not within HCVA			
Footnote	[20] Protected area: "A clearly defined geographical spi	ace, recognized, dedicated and managed through legal or other effective means, to achieve t Applying Protected Area Management Catego	he long-term conservation of nature with associated ecosystem services and cultural values." pries, Gland, Switzerland: IUCN. x + 86pp.	Source: Dudle	y, N. (Editor) (2008), Guid	delines for
Footnote		nabitats where conservation values are considered to be of outstanding significance or critica	Il importance. HCVA are designated through a multi-stakeholder approach that provides a systhat these high conservation values are maintained or enhanced (http://www.hcvnetwork.or		or identifying critical cons	servation
Footnote	For HCVAs if the farm can demonstrate that its environ For farms located in a protected area if it was designated.	mental impacts are compatible with the conservation objectives of the HCVA designation. Th a HCV/ sted as such after the farm was already in operation and provided the farm can demonstrate	(or VI (these are areas preserved primarily for their landscapes or for sustainable resource me burden of proof would be placed on the farm to demonstrate that it is not negatively impa A. that its environmental impacts are compatible with the conservation objectives of the protect	cting the core r	is in compliance with an	
	conditions or regulations placed on t		would be placed on the farm to demonstrate that it is not negatively impacting the core reas	on an area has	been protected.	
		Criterion 2.5 Interaction with wildlife, inc Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote		[23] See Appendix VI for transparency rec				
2.5.1	Indicator: Number of days in the production cycle when acoustic deterrent devices (ADDs) or acoustic harassment devices (AHDs) were used Requirement: 0	a. Compile documentary evidence to show that no ADDs or AHDs have been used by the farm.	Statement Bukkøya, Kalvhylla, Renga, Stokkasjøen and Rensøya N does not use ADD/AHD and will not use them in the future, 30.01.2018 signed Odd Strøm - Nova Sea AS.	Compliant		0
	Applicability: All		No ADD/AND used			
		a. Prepare a list of all predator control devices and their locations.	No ADD/AHD used. Procedure "Fellingstillateise, avliving, dødsfall av predatorer og/eller rødlistearter og rapportering" 30.01.2018 includes welfare, written approval from production manager/fally manager, reporting, ercording, etc. List "Oversikt over aktuelle rødlistearter" 09.11.2015 with redlisted birds, mammals, molluscs, etc. List "EN og CR fugler og sjøpattedyr for Nordland" with endangered and critical birds and mammals in the area 18.12.2017. Fish*falls kitel dray includees predator records.			
252	Indicator: Number of mortalities [25] of endangered or red-listed [26] marine mammals or birds on the farm Requirement: 0 (zero)	b. Maintain a record of all predator incidents.	Landax non-conformance system from 01.01.2016 - 30.01.2018 gives 0 incidents with search for "felling" eller "radiisteart". Sustainability report "Bærekraftrapport" for 2016 states 0 deaths of redlisted species from 2014 to 2016 and 0 deaths from approved killings. Preliminary sustainability report for 2017 states 0 deaths of redlisted species from 2014 to 2016 and 0 deaths from approved killings.	Compliant		0
	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.	Landax non-conformance system from 01.01.2016 - 30.01.2018 gives 0 incidents with search for "felling" eller "rødlisteart". Sustainability report "Bærekraftrapport" for 2016 states 0 deaths of redlisted species from 2014 to 2016 and 0 deaths from approved killings. Preliminary sustainability report for 2017 states 0 deaths of redlisted species from 2014 to 2016 and 0 deaths from approved killings.			
		d. Maintain an up-to-date list of endangered or red-listed marine mammals and birds in the area (see 2.4.1)	List "Oversikt over aktuelle rødlistearter" 09.11.2015 with redlisted birds, mammals, molliusc, etc. List "TN og CR fugler og sjøpattedyr for Nordland" with endangered and critical birds and mammals in the area 18.12.2017.			
			No mortalities of redlisted or endangered marine mammals and birds in the area registered on site.			
Footnote Footnote		[25] Mortalities: Includes animals intentionally killed through lethal action [26] Species listed as endangered or critically endangered				
	Indicator: Evidence that the following steps were taken prior to lethal action [27] against a predator: 1. All other avenues were pursued prior to using lethal	 a. Provide a list of all lethal actions that the farm took against predators during the previous 12-month period. Note: "lethal action" is an action taken to deliberately kill an animal, including marine mammals and birds. 	No lethal actions taken at farm. Seen FishTalk log with 0 lethal incidents from 2016 til present day.			
2.5.3	against the specific animal from the relevant regulatory authority	b. For each lethal action identified in 2.5.4a, keep record of the following: 1) a rationale showing how the farm pursued all other reasonable avenues prior to using lethal action; 2) approval from a senior manager above the farm manager of the lethal action; 3) where applicable, explicit permission was granted by the relevant regulatory authority to take lethal action against the animal.	No lethal actions taken at farm. Seen FishTalk log with 0 lethal incidents from 2016 til present day.	N/A	No lethal actions taken at farm.	
	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].	Seen FishTalk log with 0 lethal incidents from 2016 til present day.			
Footnote		[27] Lethal action: Action taken to deliberately kill a				
Footnote	[28] Exception to these cond	ditions may be made for a rare situation where human safety is endangered. Should this be r	equired, post-incident approval from a senior manager should be made and relevant authorit	ies must be inf	ormed.	
The ASC Saln	non Standard has defined "Lethal incident" to include all l	Instruction to Clients and CABs on Indicators 2.5.4, 2.5.5, and 2.5.6 - Clae ethal actions as well as entanglements or other accidental mortalities of non-salmonids [foot ASC has clarified this definition	note 29]. For the purpose of assisting farms and auditors with understanding how to evaluate	compliance w	ith Indicators 2.5.4, 2.5.5	, and 2.5.6,
There should	be a 1:1 relationship between the number of animal deat		one (1) lethal action in past last two years and that single lethal action resulted in killing thre	e (3) birds, it is	considered three (3) leth	al incidents
	The te	within a two year perior mon-salmonid" was intended to cover any predatory animals which are likely to try to fe				
	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.	Company website (www.novasea.no) states 0 lethal incidents in 2017.			



2.5.4	incidents [30] on the farm has been made easily publicly available [29] Requirement: Yes	For all lethal actions (see 2.5.3), keep records showing that the farm made the information available within 30 days of occurrence.	Company website (www.novasea.no) states 0 lethal incidents in 2017.	Compliant	
	Applicability: All	b. Ensure that information about all lethal actions listed in 2.5.4a are made easily publicly available (e.g. on a website).	Company website (www.novasea.no) states 0 lethal incidents in 2017.		
Footnote	[29]	Posting results on a public website is an example of "easily publicly available." Shall be made	e available within 30 days of the incident and see Appendix VI for transparency requirements.		
		a. Maintain log of lethal incidents (see 2.5.3a) for a minimum of two years. For first audit, >	Seen FishTalk log with 0 lethal incidents from 2016 til present day.		
	Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years	6 months of data are required. b. Calculate the total number of lethal incidents and the number of incidents involving	Seen FishTalk log with 0 lethal incidents from 2016 til present day.		
2.5.5	Requirement: < 9 lethal incidents [31], with no more than two of the incidents being marine mammals	marine mammals during the previous two year period. c. Send ASC the farm's data for all lethal incidents [30] of any species other than the salmon		Compliant	0
	Applicability: All	being farmed (e.g. lethal incidents involving predators such as birds or marine mammals). Data must be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle).	Submitted to ASC 09.02.2018		
Footnote		[30] Lethal incident: Includes all lethal actions as well as entang [31] Standard 2.5.6 applicable to incidents related to non-endangered and non-re			
roduote	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	a. Keep records showing that the farm undertakes an assessment of risk following each lethal incident and how those risk assessments are used to identify concrete steps the farm takes to reduce the risk of future incidents.	Risk assessments in Landax quality system, e.g. ID 283: predators in roof net or jumping net,		
2.5.6	by the farm to reduce the risk of future incidences Requirement: Yes	b. Provide documentary evidence that the farm implements those steps identified in 2.5.6a	Procedure "Fallingstillatelse avliving dødsfall av predatorer og/eller rødlistearter og	Compliant	
	Applicability: All	to reduce the risk of future lethal incidents.	manager/daily manger, reporting, recording, etc.		
		PRINCIPLE 3: PROTECT THE HEALTH AND GENETIC IN Criterion 3.1 Introduced or amplified parasite			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):		
Footnote	[32	Parm sites for which there is no release of water that may contain pathogens into the natur			
Footnote		[33] See Appendix VI for transparency requirem	nents for 3.1.1, 3.1.3, 3.1.4, 3.1.6 and 3.1.7.	l	
According to for exemption 1) the farm do	n from Criterion 3.1 if it can be shown that either of the fo bes not release any water to the natural environment; or	rater that may contain pathogens into the natural (freshwater or marine) environment are ex llowing holds: en effectively treated to kill pathogens (e.g. UV and/or chemical treatment of water with test			
Auditors shall	fully document the rationale for any such exemptions in t	the audit report.			
		a. Keep record of farm's participation in an ABM scheme.	ABM agreement "Samarbeide subregion Helgeland" for the area from Nord-Trøndelag to Meløy in Nordland, includes lice and treatments. Cooperation between all famers in the region. Minutes of meeting from the ABM group 02.11.2017 includes revision of agreement, status in area, knowledge sharing, cleaner fish, biosecurity, treatments, logistics, cooperation, fallowing, etc. Seen example of weekly report to the ABM for week 44-2017 with lice per site, lice treatments per site and empty sites. Sensitive period defined in "Forskrift om endring i forskrift om bekjempelse av lakselus", states less than 0.2 adult female (ice per fish from Monday week 2.1 to Sunday week 2.6. All farmers must have an approved operation plan "Driftsplan". Operation plan ("Driftsplan") for 2018 approved by Directorate of Fisheries 10.01.2018 for sites in Nova Sea AS.		
3.1.1	Indicator: Participation in an Area-Based Management (ABM) scheme for managing disease and resistance to treatments that includes coordination of stocking, fallowing, therapeutic treatments and information-sharing, Detailed requirements are in Appendix III-1. Requirement: Yes Applicability: All except farms that release no water as noted in [32]	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.	ABM agreement "Samarbeide subregion Helgeland" for the area from Nord-Trøndelag to Meløy in Nordland, includes lice and treatments. Cooperation is managed by Halvet and cooperation between all farmers in the region. Sensitive period defined in "Forskrift om endring i forskrift om bekjempelse av lakselus", states less than Q2 adult female lice per fish from Monday week 2.10 Sunday week 2.6. All farmers must have an approved operation plan "Driftsplan". Operation plan ("Driftsplan") for 2018 approved by Directorate of Fisheries 10.01.2018 for sites in Nova Sea AS, includes Kahrlyfila present generation 2017G (planned new generation 15.07.2019, 1,2 million smott), Buckkøya present generation 2017G (planned new generation 16.09.2013, 3 million smott), Rensøya Ny present generation 2017G (planned new generation 16.09.2013, 0,8 million smott) and Stokkasjeen present generation 2017G (planned new generation 16.09.2018, 0,8 million smott) and Stokkasjeen present generation 2017G (planned new generation 10.01.2019, 1,2 million smott).	Compliant	
		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.	ABM agreement "Samarbeide subregion Helgeland" for the area from Nord-Trøndelag to Meløy in Nordland, includes lice and treatments. Cooperation is managed by HaVet and cooperation between all farmers in the region. Sensitive period defined in "Forskrift om endring i forskrift om bekjempelse av lakselus", states less than 0,2 adult female lice per fish from Monday week 2.1 to Sunday week 2.8 had farmers must have an approved operation plan "Driftsplan". Operation plan ("Driftsplan") for 2018 approved by Directorate of Fisheries 10.01.2018 for sites in Nova Sea (Sh. Includes Kahvlylla present generation 2017 Golamend enew generation 10.01.2019, 1,2 million smolt), Bukkøya present generation 2017G (planned new generation 15.07.2019, 1,3 million smolt), Rensøya N present generation 2017G (planned new generation 16.07.2019, 1,3 million smolt), and Stokkasjøen present generation 2017G (planned new generation 16.07.2019, 1,3 million smolt) and Stokkasjøen present generation 2017G (planned new generation 10.01.2019, 1,3 million smolt).		
		d. Submit dates of fallowing period(s) as per Appendix VI to ASC at least once per year.	Submitted to ASC 09.02.2018		
			OSO, academics and governments on areas of mutually agreed research to measure possible earch projects, the farm may demonstrate compliance by showing evidence of commitment relevant organizations.		



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	idicator: A demonstrated commitment [34] to	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.	Project "Elveovervåking Helgeland" regarding status for anadromous fish stocks in an assumed farming influenced area. Seen project description with participants from Nova Sea, Ferskvannsbiologen and Skandinavisk naturovervåking, signed by Nova Sea, Louvnudlaks, Navyfiskeoppdreft, 50.7.0217 regarding financial contribution. Project regarding spawning area in Beiarn, cooperates with GiFAS and Norsk Villaksforvaltning. Seen invoice 16.01.2018 regarding project support to Villaks fra Beiarelva SA. Participation in project "Marin overvåking Nordland" regarding the influence of farming, with e.g. Akvaplan NIVA, NCE Aquaculture, NINA and University in Nordland. Contributes with man-hours, samples, equipment and financial. Seen email from M.J NCE Aquaculture Od. 10.0217 regarding the project. "Automatisk sorteringsanlegg for anadrom fisk" together with Mosjeen og Omegn Næringsutvikling. Seen letter from Nordland Fylkeskommune 21.08.2017 regarding financial support to pre-project. Supports master thesis (access to equipment and sites) at University in Nordland. Seen master thesis (ADA. 2013 analing O.A.F. and S.A Nova Sea AS as fatnes og Stian Amble. Stated on GiFAS website: GiFAS cooperates with Sundsfjord Smolt.			
3.1.2	areas of mutually agreed research to measure possible impacts on wild stocks Requirement: Yes	b. Provide non-financial support to research activities in 3.1.2a by either: - providing researchers with access to farm-level data; - granting researchers direct access to farm sites; or - facilitating research activities in some equivalent way.	Some of the projects described in 3.1.2 a. includes non-financial support.	Compliant		
	Applicability: All except farms that release no water as noted in [32]	c. When the farm and/or its operating company denies a request to collaborate on a research project, ensure that there is a written justification for rejecting the proposal.	Seen email correspondence 23.09.2015 regarding project with Novartis which was ended because of lice limit had to be followed. Not denied projects from NGOs, academics and governments.	Compliant		
		d. Maintain records from research collaborations (e.g. communications with researchers) to show that the farm has supported the research activities identified in 3.1.2a.	Project "Elveovervåking Helgeland" regarding status for anadromous fish stocks in an assumed farming influenced area. Seen project description with participants from Nova Sea, Ferskvanshologen and Skandnavisk naturoveråking, signed by Nova Sea, Louvndlaks, Kvarvy fiskeoppdrett, 05.07.2017 regarding financial contribution. Project regardings pasuming area in Beiarn, cooperates with GiFAs and Norsk Villaksforvaltning. Seen invoice 16.01.2018 regarding project support to Villaks fra Beiarevos SA. Participation in project "Marin overvåking Nordland" regarding the influence of farming, with e.g. Akvaplan NIVA, NCE Aquaculture, NINA and University in Nordland. Contributes with man-hours, samples, equipment and financial. Seen email from M.J NCE Aquaculture (04.10.2017 regarding the project. Participation in project group in project "Automatisk sorteringsanlegg for anadrom fisk" together with Mosjeen og Omegn Næringsutvikling. Seen letter from Nordland Firkeskommune 21.08. 2017 regarding financial support to pre-project. Supports master thesis (access to equipment and sites) at University in Nordland. Seen master thesis May 2013 naming O.A.F. and S.A Nova Sea AS as fatnes og Stian Amble. Stated on GiFAS website: GiFAS cooperates with Sundsfjord Smolt.			
Footnote	[34] Commitment: At a minimum, a fa	arm and/or its operating company must demonstrate this commitment through providing far	I m-level data to researchers, granting researchers access to sites, or other similar non-financian	al support for re	esearch activities.	
	Indicator: Establishment and annual review of a	a. Keep records to show that a maximum sea lice load has been set for: - the entire ABM; and - the individual farm. b. Maintain evidence that the established maximum sea lice load (3.1.3a) is reviewed annually as outlined in Appendix II-2, incorporating feedback from the monitoring of wild	Norwegian Food Safety Authority set limits and governmental treatment regime for site and ABM, while ABM/HaVet define actual operations and treatment regime. Sea lice load reported to Altinn weekly and made public on www.barentswatch.no. ABM/HaVet reports status in area monthly to participating companies. Sea lice load reported to Altinn weekly and made public on www.barentswatch.no. ABM/HaVet reports status in area monthly to participating companies.			
	maximum sea lice load for the entire ABM and for the individual farm as outlined in Appendix II-2 Requirement: Yes Applicability: All except farms that release no water as noted in [32]	salmon where applicable (See 3.1.6).	No monitoring of wild salmon allowed, feedback from governmental monitoring of wild salmon incorporated. NFSA set limits and governmental treatment regime for site and ABM. Recorded in FishTalk, and automatic reported to Altinn weekly. From week 21-2017 to 52-2017 max. 0,04 mature female lice per fish in week 48-2017. Sensitive period week 21-26 in 2017: max 0,00 mature female lice in week 21-26 in 2017. From week 01-2018 to 03-2018: max. 0,01 mature female lice per fish in week 1-3 in 2018.	Compliant		
		d. Submit the maximum sea lice load for the ABM to ASC as per Appendix VI at least once per year.	Submitted to ASC 09.02.2018			
		 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). 	Procedure "Kontroll og bekjempelse av lakselus" 27.10.2017 states counting of lice on 20 flsh per cage in week 19 to 26 and , counting of lice on 10 flsh per cage in week 27 to 18. Counting of lice according to regulation "Lakselusforskriften" and guidance to the regulation. Average from count in each cage reported to governments.			
	Indicator: Frequent [35] on-farm testing for sea lice,	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.	Sea lice load reported to Altinn weekly and made public on www.barentswatch.no. No missing data.			
3.1.4	with test results made easily publicly available [36] within seven days of testing Requirement: Yes	c. Document the methodology used for testing sea lice ('testing' includes both counting and identifying sea lice). The method must follow national or international norms, follows accepted minimum sample size, use random sampling, and record the species and life-stage of the sea lice. If farm uses a closed production system and would like to use an alternate method (i.e. video), farm shall provide the CAB with details on the method and efficacy of the method.	Procedure "Kontroll og bekjempelse av lakselus" 27.10.2017 states counting of lice on 20 fish per cage in week 19 to 26 and , counting of lice on 10 fish per cage in week 27 to 18. Counting of lice according to regulation "Lakselusforskriften" and guidance to the regulation. Average from count in each cage reported to governments.	Compliant		
		d. Make the testing results from 3.1.4b easily publicly available (e.g. posted to the company's website) within seven days of testing. If requested, provide stakeholders access to hardcopies of test results.	Reported weekly to Altinn. Results available at www.barentswatch.no (also link to Barentswatch on company website).			
		e. Keep records of when and where test results were made public.	Sea lice load reported to Altinn weekly and made public on www.barentswatch.no.			
		f. Submit test results to ASC (Appendix VI) at least once per year.	Submitted to ASC 09.02.2018			
Footnote	[35] Testing must be weekly during and immediately price	lice (below 4 degrees C). Within closed production systems, alternative me		at it would jeo	pardize farmed fish health t	to test for
Footnote		[36] Posting results on a public website is an	n example of "easily publicly available."			



Part	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]	is data for every small river or tributary or subpopulation. Information should relate to the vistocks of the same species and hence self-sustaining. A "conservation unit" under the Cana it must be recognized that each jurisdiction may have slight differences in how a wild salmofor purposes of these standards, "areas with wild salmonids" are defined as areas within 75 encompass all, or nearly all, of salmon-growing areas in the northern hemisphere [39]. Pote species is not natural to a region (e.g. Atlantic or Pacific Salmon in Chile) the areas are not contained the salmonids of the salmonids o	wild salmonid health and migration are publicly available in the vast majority of, if not all, so r from research institutions. Therefore farms are not responsible for conducting this formation in their region, as such information is needed to make management decisions dis within approximately 50 km of the farm. A farm does not need to demonstrate that there wild fish stock level, which implies that the population is more or less isolated from other dian Wild Salmon Policy is an example of an appropriate fish stock-level definition. However, nids stock is defined in the region. kilometers of a wild salmonid migration route or habitat. This definition is expected to nitially affected species in these areas are salmonids (i.e. including all trout species). Where a onsidered as "areas with wild salmonids" even if salmon have escaped from farms and tocks under this standard if general information is already available. Farms must tocks under this standard if general information is already available. Farms must tocks under this standard if general information is needed to make management decisions related to peer review studies; publicly available government monitoring and reporting. Sen Report "Risikorapport Norsk fiskeoppdrett 2017" by IMR shows infestation of lice on wild fish, lice induced mortality on wild fish, etc. For area where company is present. Seen Report "Risikorapport Norsk fiskeoppdrett 2017" by IMR shows infestation of lice on wild fish, lice induced mortality on wild fish, etc. For area where company is present. Seen Report "Risikorapport Norsk fiskeoppdrett 2017" by IMR shows infestation of lice on wild fish, lice induced mortality on wild fish, etc. For area where company is present. Seen Report "Risikorapport Norsk fiskeoppdrett 2017" by IMR shows infestation of lice on wild fish, lice induced mortality on wild fish, etc. For area where company is present.	Compliant		
Section Companies Compan	Footnote	[27] Fas purposes of those standards "avo	e with wild columnide" are defined as access within TE billometers of a wild columnid missestic	Sufficient awareness demonstrated in interview.	ng aroas in the	northern homisphere	
Authority of these particles of the strong	Footnote						region as
Section Continue	Footnote	The to conduct research on migration		related to minimizing potential impact on those stocks.	salli		,6.51, 03
Pack and with the color of th				report "Risikorapport for norsk fiskeoppdrett 2017" by IMR. Private interference with wild salmonids prohibited by law.	·		
Septiment (**) The septiment of the septiment (**) Experiment		lice levels on wild out-migrating salmon juveniles or on coastal sea trout or Arctic char, with results made publicly available. See requirements in Appendix III-1. Requirement: Yes Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted	b. Keep records to show the farm participates in monitoring of sea lice on wild salmonids.	report "Risikorapport for norsk fiskeoppdrett 2017" by IMR.			
Application			whether the methodology used for monitoring of sea lice on wild salmonids is in	report "Risikorapport for norsk fiskeoppdrett 2017" by IMR.	Compliant		
Appoint NY App			website) within eight weeks of completion of monitoring.	Report public available at www.imr.no			
1.2 deep cont for various of all bidrocodic reactions or control for with fine 1920 and the second state of the purpose of processing an area with with administration or control for with fine 1920 and the second state of the purpose of processing an area with with administration or control for with fine 1920 and the second state of processing an area with with administration or control for with fine 1920 and the second state of processing and administration or control for with fine 1920 and the second second state of processing and administration or control for with fine 1920 and the second state of processing and administration or control for with fine 1920 and the second state of processing and administration or control for with fine 1920 and the second state of processing and administration or control for month				Private interference with wild salmonids prohibited by law.			
seclated expension in Appetical Laboration 2. Auditor formation and expension of members are precised for members and precised partners for the propriety and another in the precise of the propriety and another in the precise of the propriety and another in the precise of the				Salmo salar naturally occurring in area.			
Applicability. All farms operating in areas with wild planted designed country from that release no water an order in 2012 and 2017. **Total Compliance Circuit Requirements for the country of the CAB with evidence there is a "feedback loop" between the targets or ord. A Provide the CAB with evidence there is a "feedback loop" between the targets or ord. A Provide the CAB with evidence there is a "feedback loop" between the targets or ord. A Provide the CAB with evidence there is a "feedback loop" between the targets or ord. A Provide the CAB with evidence there is a "feedback loop" between the targets or ord. A Provide the CAB with evidence there is a "feedback loop" between the targets or ord. A Provide the CAB with evidence there is a "feedback loop" between the targets or ord. A Provide the CAB with evidence there is a "feedback loop" between the targets or ord. A Provide the CAB with evidence that the care is a "feedback loop" between the targets or ord. A Provide the CAB with evidence that the care is a "feedback loop" between the targets or ord. A Provide the CAB with evidence that the care is a "feedback loop" between the targets or ord. A Provide the CAB with evidence that the care is a feedback loop between the targets or ord. A Provide the CAB with evidence that the care is a feedback loop between the care is a feedback loop between the care is a feedback loop. **Total Care in the care is a feedback loop between the care is a feedback loop between the care is a feedback loop. **Total Care in the care is a feedback loop between the care is a feedback loop. **Total Care in the care is a feedback loop. **Total Care in the care is a feedback loop. **Total Care in the care is a feedback loop. **Total Care in the care is a feedback loop. **Total Care in the care is a feedback loop. **Total Care in the care is a feedback loop. **Total Care in the care is a feedback loop. **Total Care in the care in the care is a feedback loop. **Total Care in the ca		lice levels during sensitive periods for wild fish [39]. See	operates. Sensitive periods for migrating salmonids is during juvenile outmigration and		Compliant		
d. Provide the CLB with evidence there is a "feedback loop" between the targets for on four feed with the evidence of the relative of microtrong of fee feed on with alternative (Approximal 2). **Total Committee Comm		Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted		No fish in sensitive period (week 21 - 26) in 2016 and 2017.			0
Compliance Criteria (Required Client Actions): Compliance Criteria (Required Client Actions): Auditor Evaluation (Required CAR Actions):			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).				
Note: For the purpose of indicator 3.2.1, "area" is defined as a congiguous body of water with the bio-chemical and temperature profile required to support the farmed species life and reproduction (e.g. the Northern Attancian 3.2.1, "area" is defined as a congiguous body of water with the bio-chemical and temperature profile required to support the farmed species life and reproduction (e.g. the Northern Attancian 3.2.1, "area" is defined as a congiguous body of water with the bio-chemical and temperature profile required to support the farmed species life and reproduction (e.g. the Northern Attancian 3.2.1 and expenditure). The intent is that the area is noted to be epit at risk from the non-native species further on this condition. "The biometers of countries." Indicator: If a non-native species is being produced (emonstration that the species was widely commercially produced in the area by the date of publication of the ACS Salmon standard Requirement: Yes [40] Applicability: All farms except as noted in [40] 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. 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. If the farm cannot provide evidence for 3.2.1b or 3.2.1c provide documentary evidence that the farm uses only 100% sterile fish that includes details on accuracy of sterility effectiveness. If the farm cannot provide evidence for 3.2.1b or 3.2.1c provide documentary evidence that the farm uses only 100% sterile fish that includes details on accuracy of sterility effectiveness. If the farm cannot provide evidence for 3.2.1b or 3.2.1c provide documentary evidence that the production system is located to the natural environment and for each of the details on accuracy of sterility effectiveness. If the farm cannot provide evidence for 3.2.1b or	Footnote						
Indicator: If a non-native species is being produced, denonatation that the species are species as species and special with a case and the area before June 13, 2012. Indicator: If a non-native species is being produced, denonatation that the species are species are species as species are species as species are species as species are species as species are species are species as species are species are species as species are species							
Indicator: If a non-native species is being produced, demostration 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] 4. If the farm cannot provide evidence for 3.2.1b, provide documentary evidence that the non-native species was widely commercially produced in the area by the date of publication of the ASC Salmon standard Applicability: All farms except as noted in [40] 4. If the farm cannot provide evidence for 3.2.1b, provide documented evidence that the farm uses only 100% sterile fish that includes details on accuracy of sterility effectiveness. 4. 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. In on-native species are separated from wild fish by effective physical barriers that are in place and well maintained; 2. Darriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce (e.g. UV or other effective treatment of any effluent water exiting the system to the natural environment). 5. Salmo salar native to region 4. Salmo salar native to region 5. Salmo salar native to region			and reproduction (e.g. the Northern Atlantic Coast of the U.S. and Canada). Appendix II-1A into account the zone in which key cumulative impacts on wild populations may occur, water	elaborates further on this definition: "The boundaries of an area should be defined, taking er movement and other relevant aspects of ecosystem structure and function." The intent is			
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 ASC Salmon standard Requirement: Yes [40] Applicability: All farms except as noted in [40] d. If the farm cannot provide evidence for 3.2.1b, provide documentary evidence that the farm uses only 100% sterile fish that includes details on accuracy of sterility effectiveness. Applicability: All farms except as noted in [40] d. If the farm cannot provide evidence for 3.2.1b or 3.2.1c, provide documented evidence that the farm uses only 100% sterile fish that includes details on accuracy of sterility effectiveness. Applicability: All farms except as noted in [40] d. If the farm cannot provide evidence for 3.2.1b or 3.2.1c, provide documented evidence that the production system is closed to the natural environment and for each of the following: 1 long: 2 long: 2 long: 2 long: 3 long: 3 long: 3 long: 3 long: 4 long: 5 long				Salmo salar native to region			
8-2.1 Requirement: Yes [40] Applicability: All farms except as noted in [40] d. If the farm cannot provide evidence for 3.2.1b, provide documentary evidence that the farm uses only 100% sterile fish that includes details on accuracy of sterility effectiveness. Applicability: All farms except as noted in [40] d. If the farm cannot provide evidence for 3.2.1b or 3.2.1c, provide documented evidence that the production system is closed to the natural environment and for each of the following: 1 non-native species are separated from wild fish by effective physical barriers that are in place and well maintained; 2 barriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce [40], and 3) barriers ensure there are no escapes of biological material [40] that might survive and subsequently reproduce (e.g. UV or other effective treatment of any effluent water exiting the system to the natural environment). Salmo salar native to region Salmo salar native to region		demonstration that the species was widely commercially		Salmo salar native to region			
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). Salmo salar native to region Salmo salar native to region		ASC Salmon standard Requirement: Yes [40]		Salmo salar native to region	N/A		
[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 survive and			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 [4,2, UV or other effective treatment of any effluent water exiting	Salmo salar native to region		region.	
			-	Salmo salar native to region			
	Footnote	[40] Exceptions shall be made for production systems tha			cimens or biol	ogical material that might	survive and



		Instruction to Clients for Indicator 3.2.2 - Exceptions to Allow Production of Non-Native Sp. Farms have had five years to demonstrate compliance with this standard from the time of p Farms are exempt from this standard if they are in a jurisdiction where the non-native specionditions are met: eradication would be impossible or have detrimental environmental eff (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	ublication of the ASC Salmon Standard (i.e. full compliance by June 13, 2017). se became established prior to farming activities in the area and the following three ects; the introduction took place prior to 1993 (when the Convention on Biological Diversity			
	Indicator: If a non-native species is being produced, evidence of scientific research [41] completed within the		5. h			
3.2.2	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]	a. Inform the ASC of the species in production (Appendix VI). b. Inform the CAB if the farm produces a non-native species. If not, then Indicator 3.2.2	Submitted to ASC 09.02.2018 Salmo salar native to region			
	Requirement: Yes	does not apply.	Salai Hative to region			
	Applicability: All [43]	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).	Salmo salar native to region	N/A	Salmo salar native to region	
		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.	Salmo salar native to region			
		e. Submit evidence from 3.2.2c to ASC for review.	Salmo salar native to region			
Footnote	Tank take and an allow down the take to be to be a second and a second	[41] The research must at a minimum include multi-year monitoring for non-native far			- ACC!!	
Footnote		e ASC will consider pronibiting the certification of farming of non-native salmon in that jurisd arming of non-native salmon in that jurisdiction. The ASC intends to bring this evidence into	diction under this standard. In the event that the risk tools demonstrate "high" risks, the SAD future revision of the standard and those results taken forward into the revision process.	expects that th	e ASC will pronibit the cei	rtification of
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 took place prior to 1993 (when the Convention on Biological Div	he area and the following three conditions are met: eradication would be impossible or have oversity (CBD) was ratified): the species is fully self-sustaining.	detrimental en	vironmental effects; the in	ntroduction
			cas, (co) no actico, at species of any set sustaining.			
		a. Inform the CAB if the farm uses fish (e.g. cleaner fish or wrasse) for the control of sea lice.	Cleaning fish: Rognkjeks Cyclopterus lumpus (Lumpfish, farmed) are native to region.			
3.2.3	Indicator: Use of non-native species for sea lice control for on-farm management purposes Requirement: None	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.	Delivery report 11.08.2017 from Atlantic lumpus regarding delivery of farmed lumpfish.	Compliant		
		c. Collect documentary evidence or first hand accounts as evidence that the species used is not non-native to the region.	Cleaning fish: Rognkjeks Cyclopterus lumpus (Lumpfish, farmed) are native to region.			
		Criterion 3.3 Introduction of tran: Compliance Criteria (Required Client Actions):				
		a. Prepare a declaration stating that the farm does not use transgenic salmon.	Nova Sea policy "Nova Sea konsernpolitikk for mattrygghet, dyrevelferd, kvalitet, miljø, energi og klima" approved by Odd Strøm 01.02.2018, states no use of genmodified fish or			
	Indicator: Use of transgenic [44] salmon by the farm	a. Frepare a decial atom stating that the farm does not use transgenic samon.	feed.			
3.3.1	b. 1	 b. Maintain records for the origin of all cultured stocks including the supplier name, address and contact person(s) for stock purchases. 	Statement from Marine Harvest (Mowi), april 2017, no GM salmon. AquaGen statement, 20.12.2017, SAK - AquaGen, no GM.	Compliant		
	Applicability: All					
		c. Ensure purchase documents confirm that the culture stock is not transgenic.	Purchase only smolt of Mowi/AquaGen origin.			
Footnote	[44] Transgenic: Containing genes altered by insertion of DNA from an unrelated organism. Taking genes from					
	one species and inserting them into another species to	Criterion 3.4 Escapes [Compliance Criteria (Required Client Actions):	47] Auditor Evaluation (Required CAB Actions):			
Footnote		[45] See Appendix VI for transparency rec				
		Maintain monitoring records of all incidences of confirmed or suspected escapes, specifying date, cause, and estimated number of escapees.	No escapes registered in the period 2007 - today. Documented by report from company and register at Directorate of Fisheries (www.fiskeridir.no).			
		b. Aggregate cumulative escapes in the most recent production cycle.	No escapes registered in the period 2007 - today. Documented by report from company and register at Directorate of Fisheries (www.fiskeridir.no).			
3.4.1	Indicator: Maximum number of escapees [46] in the most recent production cycle	c. Maintain the monitoring records described in 3.4.1a for at least 10 years beginning with the production cycle for which farm is first applying for certification (necessary for farms to be eligible to apply for the exception noted in [47]).	No escapes registered in the period 2007 - today. Documented by report from company and register at Directorate of Fisheries (www.fiskeridir.no).	Compliant		0
	Requirement: 300 [47] 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.	No escapes registered in the period 2007 - today.	Compliant		
		e. Submit escape monitoring dataset to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).	Submitted to ASC 09.02.2018			
Footnote	[46] Farms shall report all escapes; the	e total aggregate number of escapees per production cycle must be less than 300 fish. Data o	I on date of escape episode(s), number of fish escaped and cause of escape episode shall be rep	orted as outlin	ed in Appendix VI.	
Footnote			exceptional episode is allowed in a 10-year period for the purposes of this standard. The 10- onable way to predict the events that caused the episode. See auditing guidance for additions		rts at the beginning of the	production
		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.	Counting performed at FW site, vaccination numbers used for stocking number at sea net cage. Final accurate numbers at harvest plant where individual fish is handled and registered. Statement from Vaki 98 - 100% accuracy (vaccine machines "Macro and Micro"), machines used by Heigeland Smolt and Sundsfjord Smolt. Statement from AquaScan 5500 98 - 100% accuracy, machines used by wellboat.			
	Indicator: Accuracy [48] of the counting technology or counting method used for calculating stocking and	 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). 	Vaccination numbers in FW used as accurate number stocked.			
3.4.2	harvest numbers Requirement: ≥ 98%	c. During audits, arrange for the auditor to witness calibration of counting machines (if used by the farm).	Counting not performed at site	Compliant		98 - 100%
	Bossissments > 000/		Counting performed at FW site, vaccination numbers used for stocking number at sea net cage. Final accurate numbers at harvest plant where individual fish is handled and registered. Statement from Vaki 98 - 100% accuracy (vaccine machines "Macro and Micro"), machines used by Heigeland Smolt and Sundsfjord Smolt. Statement from AquaScan 5500 98 - 100% accuracy, machines used by wellboat.			



		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).	Submitted to ASC 09.02.2018		
Footnote		[48] Accuracy shall be determined by the spec sheet for counting mach	ines and through common estimates of error for any hand-counts.		ļ
		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 cyc	le as follows:		
		EUL = (stocking count) - (harvest count) - (mortalities) - (recorded escapes)			
		Units for input variables are number of fish (i.e. counts) per production cycle. Where possib	le, farms should use the pre-smolt vaccination count as the stocking count. This formula is		
		adapted from footnote 59 of the ASC Salmon Standard.			
		 a. Maintain detailed records for mortalities, stocking count, harvest count, and escapes (as per 3.4.1). 	Specific site reports and records documented and available in production and recording system.		
	Indicator: Estimated unexplained loss [49] of farmed				
3.4.3	salmon is made publicly available	b. Calculate the estimated unexplained loss as described in the instructions (above) for the most recent full production cycle. For first audit, farm must demonstrate understanding of calculation and the requirement to disclose EUL after harvest of the current cycle.	EUL 15G: no production EUL 17G: not harvested yet.		
	Requirement: Yes	calculation and the requirement to disclose EDL after narvest of the current cycle.			
	Applicability: All	c. Make the results from 3.4.3b available publicly. Keep records of when and where results	Seen on ASC dashboard at company website, www.novasea.no	N/A	EUL 15G: no production EUL 17G: not harvested
		were made public (e.g. date posted to a company website) for all production cycles.	, , , , , , , , , , , , , , , , , , ,	,	yet.
		d. Submit estimated unexplained loss to ASC as per Appendix VI for each production cycle.	Submitted to ASC 09.02.2018		
		-	EUL within normal range.		
ootnote	[49] Calculated at the end	d of the production cycle as: Unexplained loss = Stocking count – harvest count – mortalities -	other known escapes. Where possible, use of the pre-smolt vaccination count as the stockin	g count is pref	ferred.
		a. Prepare an Escape Prevention Plan and submit it to the CAB before the first audit. This	Procedure "Forebygge og avdekke rømming" 21.07.2016 regarding escape prevention and to discover escape.		
		plan may be part of a more comprehensive farm planning document as long as it addresses	Procedure "Vaskebåt" 26.10.2016 regarding prevention of escape by inspection, reporting		
	all required elements of Indicator 3.4.4.	of deviation and documentation. Procedure "Kontrollrutiner mot rømming" 21.07.2016 regarding discover escape.			
		b. If the farm operates an open (net pen) system, ensure the plan (3.4.4a) covers the			
l l	following areas: - net strength testing;	Procedure "Forebygge og avdekke rømming" 21.07.2016 regarding escape prevention and to discover escape.			
		- appropriate net mesh size;	Procedure "Vaskebåt" 26.10.2016 regarding prevention of escape by inspection, reporting		
		- net traceability; - system robustness;	of deviation and documentation. Procedure "Kontrollrutiner mot rømming" 21.07.2016 regarding discover escape.		
		- predator management; - record keeping;	Contingency plan " Beredskapsplan ved rømming" 05.09.2017 regarding escape limitation, information, actions, catch, reporting, measures and evaluation.		
Indicator: Evidence of escape prevention planning and	 reporting risk events (e.g. holes, infrastructure issues, handling errors); planning of staff training to cover all of the above areas; and 	Schedule and records of internal inspections of farm in "Havbruksloggen", also information of the equipment on the farm (e.g. strength test of nets and placing of them).			
	related employee training, including: net strength testing; appropriate net mesh size; net traceability;	- planning of staff training on escape prevention and counting technologies.			
	system robustness; predator management; record keeping and reporting of risk events (e.g., holes,	file for the file of the file			
3.4.4	infrastructure issues, handling errors, reporting and follow up of escape events); and worker training on	c. If the farm operates a closed system, ensure the plan (3.4.4a) covers the following areas: - system robustness;		Compliant	
	escape prevention and counting technologies	- predator management; - record keeping;	Open system		
	Requirement: Yes	 reporting risk events (e.g. holes, infrastructure issues, handling errors); planning of staff training to cover all of the above areas; and 			
	Applicability: All				
	Applicability: All	- planning of staff training on escape prevention and counting technologies.			
	Applicability: All	- planning of staff training on escape prevention and counting technologies.			
	Applicability: All	- planning of staff training on escape prevention and counting technologies.	"Havbruksloggen": Weekly check of farm performed e.g. 22.12.2017 signed OH, 29.12.2017 signed OH, 29.12.2017		
	Applicability: All	- planning of staff training on escape prevention and counting technologies.	signed OH, etc. "Havbruksloggen": Frame F, unit 13, contains net 9088. Service card for net 9088 by Egersund Net 19.10.2017, valid for 12 months, includes strength test.		
	Applicability: All	- planning of staff training on escape prevention and counting technologies. d. Maintain records as specified in the plan.	signed OH, etc. "Havbruksloggen": Frame F, unit 13, contains net 9088. Service card for net 9088 by		
	Applicability: All		signed OH, etc. "Havbruksloggen": Frame F, unit 13, contains net 9088. Service card for net 9088 by Egersund Net 19.10.2017, valid for 12 months, includes strength test. Visual check at unit 13: net 9088 and cage 6027. Cage 6027, produced March 2017, 20 years		
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NCIPLE 4:	Applicability: All USE RESOURCES IN AN ENVIRONMENTALLY EFFICIENT AN	d. Maintain records as specified in the plan. e. Train staff on escape prevention planning as per the farm's plan. - D RESPONSIBLE MANNER Criterion 4.1 Troceability of row m	Signed OH, etc. "Havbruksloggen": Frame F, unit 13, contains net 9088. Service card for net 9088 by Egersund Net 19.10.2017, valid for 12 months, includes strength test. Visual check at unit 13: net 9088 and cage 6027. Cage 6027, produced March 2017, 20 years validity. Farm certificate ("Anleggssertifikat") 261.01 by DNV GL, validity 05.05.2017 - 04.05.2022. Visual check at pare; AkvaNaster 320 nr. 40354, 19.04.2008, valid for 15 years. Contingency plan regarding escape dated 05.09.2017. Escape prevention training for OH 15.12.2011 by FHL. Verified during interview.		
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truction to ms must s independe the ASC (s duction as requirem addition to e one of tw thod #1: F cch of feed thod #2: F duction p h ASC req nagement	o Clients for Indicators 4.1.1 through 4.4.2 - Sourcing of R show that all feeds used by the farm are produced in compent auditing firm or a conformity assessment body against e4.1.1 below). Results from these audits shall demonst not supply chains. Declarations from the feed producer the nests of the ASC Salmon Standard relating to sourcing of re to the above, farms must also show that their feed supplier to different methods to demonstrate compliance of feed producers while according to farm specifications. Audits of the feed producers while according to farm specifications. Audits of the feed producers while according to farm specifications. However, mixing of ingred uirements. The mass balance method can be applied, for e for a single legal entity.	d. Maintain records as specified in the plan. e. Train staff on escape prevention planning as per the farm's plan. e. Train staff on escape prevention planning as per the farm's plan. Compliance Criteria (Required Client Actions): esponsibly Produced Salmon Feeds bliance with the requirements of Indicators 4.1.1 through 4.4.4. To do so, farms must obtain d a recognized standard which substantially incorporate requirements for traceability. Accepts are that feed producers have robust information systems and information shadling processe are provided to the farm to demonstrate compliance with these indicators must be support sponsibly produced salmon feed (see 4.1.1b below). s comply with the more detailed requirements for traceability and ingredient sourcing that are producers: o used only those ingredients allowed under the ASC Salmon Standards during the production cer will independently verify that manufacturing processes are in compliance with ASC requires will independ to the sample of the sample, to integrated feed production lines is allowed during manufacturing. Audits of the sample, to integrated feed production companies that handle all steps of feed manufacturing ion that produces the fish feed (i.e. it is the "feed manufacture"). In most cases, the organize on of directly responsible for feed production. Regardless of whether the farm sources feeds lance with requirements. 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.	signed OH, etc. "Havbruksloggen": Frame F, unit 13, contains net 9088. Service card for net 9088 by Egersund Net 19.10.2017, valid for 12 months, includes strength test. Visual check at unit 13. net 9088 and cape 6027. Cage 6027, produced March 2017, 20 years validity. Farm certificate ("Anleggssertifikat") 261.01 by DNV GL, validity 05.05.2017 - 04.05.2022. Visual check at barge: AkvaMaster 320 nr. 40354, 19.04.2008, valid for 15 years. Contingency plan regarding escape dated 05.09.2017. Escape prevention training for OH 15.12.2011 by FHL. Verified during interview. steerials in feed Auditor Evaluation (Required CAB Actions): occumentary evidence that the feed producers (see note 1) are audited at regular intervals by bic certification schemes include GlobalGAP or other schemes that have been acknowledged s to allow the feed producers to be able to bring forward accurate information about their ed by the audits. Farms must also show that all of their feed producers are duly informed of e specified under indicators 4.1.1 through 4.4.2. The ASC Salmon Standard allows farms to a fa given batch of feed. For example, the farm may request its feed supplier to produce a rements. Now that the balance of all ingredients (both amount and type) used during a given feed to feed producer will independently verify that manufacturing processes are in compliance g (purchasing of raw materials, processing this finished feed, and sales) under the stone supplying feed to a farm (i.e. the feed supplier) will be the same organization, it remains way - December 2017: 1 959 707 kg total (Skretting 100 %) Skretting: www.skretting.com		
ruction to ms must s ndepende he ASC (s duction a requirem ddition to one of tw thod #1: F ch of feed thod #2: F duction p n ASC req nagement e 1: The t duced the	o Clients for Indicators 4.1.1 through 4.4.2 - Sourcing of R show that all feeds used by the farm are produced in compared to the compared to	d. Maintain records as specified in the plan. e. Train staff on escape prevention planning as per the farm's plan. e. Train staff on escape prevention planning as per the farm's plan. Compliance Criteria (Required Client Actions): esponsibly Produced Salmon Feeds liance with the requirements of indicators 4.1.1 through 4.4.4. To do so, farms must obtain d a recognized standard which substantially incorporate requirements for traceability. Accepts at the fared producers have robust information systems and information shadling process tare provided to the farm to demonstrate compliance with these indicators must be support sponsibly produced salmon feed (see 4.1.1 below). s comply with the more detailed requirements for traceability and ingredient sourcing that are roducers: o used only those ingredients allowed under the ASC Salmon Standards during the production cer will independently verify that manufacturing processes are in compliance with ASC required to demonstrate compliance with a single producer in the staff of the separal silos and production lines is allowed during manufacturing. Audits of the xample, to integrated feed production companies that handle all steps of feed manufacturing into the producer service in the service of the staff of the service of the	signed OH, etc. "Havbrukstogegm": Frame F, unit 13, contains net 9088. Service card for net 9088 by Egersum Net 13.0.2017, valid for 12 months, includes strength test. Visual check at unit 13: net 9088 and cage 6027. Cage 6027, produced March 2017, 20 years validity. Farm certificate ("Anleggssertifikat") 261.01 by DNV GL, validity 05.05.2017 - 04.05.2022. Visual check at a brage: AksaMaster 320 nr. 40354, 19.04.2008, valid for 15 years. Contingency plan regarding escape dated 05.09.2017. Escape prevention training for OH 15.12.2011 by FHL. Verified during interview. sterials in feed Auditor Evaluation (Required CAB Actions): occumentary evidence that the feed producers (see note 1) are audited at regular intervals by ble certification schemes include GlobalGAP or other schemes that have been acknowledged s to allow the feed producers to be able to bring forward accurate information about their ed by the audits. Farms must also show that all of their feed producers are duly informed of e specified under indicators 4.1.1 through 4.4.2. The ASC Salmon Standard allows farms to not a given batch of feed. For example, the farm may request its feed supplier to produce a rements. Interval the balance of all ingredients (both amount and type) used during a given feed feed producer will independently verify that manufacturing processes are in compliance g (purchasing of raw materials, processing to finished feed, and sales) under the attention of the same organization that directly from a feed to a farm (i.e. the feed supplier) will be the same organization that directly from a feed producer or indirectly through an intermediary organization, it remains May - December 2017: 1 959 707 kg total (Skretting 100 %) Skretting: www.skretting.com	Compliant	



4.1.1	L			Compilant	1	. 1
	Requirement: Yes Applicability: All	d. For each feed producer, determine whether the farm will use method #1 or method #2 (see instructions above) to show compliance of feed producers. Inform the CAB in writing.	Method #2			İ
		 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]. 	Skretting: Statement "Documentation to demonstrate compliance with ASC Standards for responsible salmon aquaculture", December 2016.			l
		-	Statement and certificate verified.			
Footnote	[50] Traceability shall be at a level of detail that permits the		er raw ingredients must be traced back to the fishery, soy to the region grown, etc.). Feed ma	nufacturers wi	ll need to supply the farm	with third-
		party documentation of the ingredier Criterion 4.2 Use of wild fish fo				
Footnote		Compliance Criteria (Required Client Actions): [51] See Appendix VI for transparency	Auditor Evaluation (Required CAB Actions):			
		Instr. Farms must calculate the Fishmeal Forage Fish Dependency Ration (FFDRm) according to for sufficient information in order to make an accurate calculation of FFDRm as outlined below of the most recent returned to the most recent of the first recent returned to the first retu	uction to Clients for Indicator 4.2.1 - Calculation of FFDRm ormula presented in Appendix IV-1 using data from the most recent complete production cycle . For first audits, farms may be exempted from compiliance with Indicator 4.2.1 for the most rop was > 1.2.1 if the farm can satisfactorily demonstrate to the auditor that: e client understands how to accurately calculate FFDRm; accurately calculate FFDRm (i.e. all feed specs for > 6 months) for the current production cyc erent production cycle will ensure that the farm will meet requirements at harvest (i.e. FFDRm	ecent complete		
4.2.1	Indicator: Fishmeal Forage Fish Dependency Ratio (FFDRm) for grow-out (calculated using formulas in Appendix N · 1) Requirement: < 1.2	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.	No previous cycle, will be provided when current cycle, 2017G, is harvested.			
	Applicability: All	b. For FFDRm calculation, exclude fishmeal derived from rendering of seafood by-products (e.g. the "trimmings" from a human consumption fishery.	No previous cycle, will be provided when current cycle, 2017G, is harvested.	N/A	No previous cycle, will be provided when current cycle, 2017G, is harvested.	ı
	#1). d. C.	c. Calculate eFCR using formula in Appendix IV-1 (use this calculation also in 4.2.2 option #1).	No previous cycle, will be provided when current cycle, 2017G, is harvested.		narvesteu.	
		d. Calculate FFDRm using formulas in Appendix IV-1.	No previous cycle, will be provided when current cycle, 2017G, is harvested.			
		e. Submit FFDRm to ASC as per Appendix VI for each production cycle.	No previous cycle, will be provided after harvest of 2017G			
		Note: Under Indicator 4.2.2, farms can choose to calculate FFDRo (Option #1) or EPA & DHA shall inform the CAB which option they will use.	(Option #2). Farms do not have to demonstrate that they meet both threshold values. Client			
	Indicator: Fish Oil Forage Fish Dependency Ratio	a. Maintain a detailed inventory of the feed used as specified in 4.2.1a.	No previous cycle, will be provided when current cycle, 2017G, is harvested.			ı
	(FFDRo) for grow-out (calculated using formulas in Appendix IV-1), or, Maximum amount of EPA and DHA from direct marine sources [52] (calculated according to Appendix IV-2)	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.	No previous cycle, will be provided when current cycle, 2017G, is harvested.			ı
	Requirement: FFDRo < 2.52	c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard.	No previous cycle, will be provided when current cycle, 2017G, is harvested.	N/A	No previous cycle, will be provided when current cycle, 2017G, is harvested.	ı
	(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.	No previous cycle, will be provided when current cycle, 2017G, is harvested.			ı
		e. For option #2, calculate amount of EPA + DHA using formulas in Appendix IV-2.	No previous cycle, will be provided when current cycle, 2017G, is harvested.			ı
		f. Submit FFDRo or EPA & DHA to ASC as per Appendix VI for each production cycle.	No previous cycle, will be provided after harvest of 2017G			
Footnote		official regulations with regard to fish	ssed for human consumption or if whole fish is rejected for use of human consumption becau suitable for human consumption. s that are classified as critically endangered, endangered or vulnerable in the IUCN Red List of			
		Criterion 4.3 Source of marine re				
		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 ISEA member [54] and has guidelines that specifically promote responsible environmental management of small pelagic fisheries Requirement: Not required			N/A		
	Applicability: N/A					
Footnote	[53] This standard	and standard 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries, or fish	neries where the catch is directly reduced (including krill) and not to by-products or trimmings	used in feed.		
Footnote		[54] Meets ISEAL guidelines as demonstrated through full membership in the ISEAL Al	lliance, 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 fro - For first audits, farms must have scoring records that cover all feeds purchased during the p - Note: Indicator 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries, or fis	om the menu on the left reads "Scores" revious 6-month period.			
		trimmings used in feed.				
4.3.2	Indicator: Prior to achieving 4.3.1, the FishSource score [55] for the fishery(les) from which all marine raw material in feed is derived Requirement: All individual scores ≥ 6, and biomass score ≥ 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).	Skretting statement "Documentation to demonstrate compliance with ASC Standards for responsible salmon aquaculture", December 2016. Ust of fish products used as feed ingredients in "2017 marine raw material mass balance calculation Skretting Norway": Blue whiting (NE Atlantic) MSC certified, Herring, Mackerel, Norway Pout, Sandeel, Sardine, Sprat, Peruvian Anchoveta, Capelin (Icelandic).			
	Applicability: All	b. Confirm that each individual score ≥ 6 and the biomass score is ≥ 6.	All individual scores ≥ 6 and biomass score ≥ 6, except Sprat. Refer to Interim solution on Marine Raw Material Requirements in the ASC Farm Standards. In effect 21 September 2016	Minor	Not seen FishSource score of Sprat.	



		c. If the species is not on the website it means that a FishSource assessment is not available.			Not seen independent assessment of sprat.	
		Client can then take one or both of the following actions: 1. Contact RishSource 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 RishSource methodology and provide the assessment and details on the third party qualifications to the CAB for review.	Not seen independent assessment of sprat.			
		-	All have scores except Sprat.			
Footnote		[55] Or equivalent score using the same methodology. See	e Appendix IV-3 for explanation of FishSource scoring.			
	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 rom audits of feed producers (see 4.1.1c) as evidence that traceability systems are in comp requirements of Indicator 4.3.3 by submitting evidence that suppliers, and the batches of fis Standard for Responsible Supply or to the Marine Stewardship Council Chain of Custody Sta For the first audit, a minimum of 6 months of data on feed is required and evidence shall rel	iliance. Alternatively, farms may show that their feed producers comply with traceability shmeal and oil, are certified to the International Fishmeal and Fish Oil Organization's Global indard.			
	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. 	Skretting: GlobalG.A.P. Certified, GGN: 4050373823641, valid to 22.06.2018.	Compliant		
		b. Ensure evidence covers all the species used (as consistent with 4.3.2a, 4.2.1a, and 4.2.2a)	Skretting: GlobalG.A.P. Certified, GGN: 4050373823641, valid to 22.06.2018.			
	Indicator: Feed containing fishmeal and/or fish oil	 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. 	List of fish products used as feed ingredients in "2017 marine raw material mass balance calculation Skretting Norway" includes by-products and trimmings			
	originating from by-products [56] or trimmings from IUU [57] catch or from fish species that are categorized as vulnerable, endangered or critically endangered, according to the IUCN Red List of Threatened Species [58], whole fish and fish meal from the same species and	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.	List of fish products used as feed ingredients in "2017 marine raw material mass balance calculation Skretting Norway" includes by-products and trimmings.	Compliant		
	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).	List of fish products used as feed ingredients in "2017 marine raw material mass balance calculation Skretting Norway" includes by-products and trimmings			
		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].	Not from vulnerable fisheries			
	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 fishmed 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.	Skretting statement "Documentation to demonstrate compliance with ASC Standards for responsible salmon aquaculture", December 2016. Ust of fish products used as feed ingredients in "2017 marine raw material mass balance calculation Skretting Norway": Blue whiting (NE Atlantic) MSC certified, Herring, Mackerel, Norway Pout, Sandeel, Sardine, Sprat, Peruvian Anchoveta, Capelin (Icelandic).			
	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. 	Statement regarding feed raw material sources, 05.01.2018 signed Odd Strøm - Nova Sea AS.	Compliant		
		c. Compile a list of the origin of all fish products used as feed ingredients in all feed.	List of fish products used as feed ingredients in "2017 marine raw material mass balance calculation Skretting Norway" includes by-products and trimmings			
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 consu	umption because the quality at the time of landing does not meet official regulations with reg	ard to fish suit	able for human consumpt	tion.
Footnote Footnote		[57] IUU: Illegal, Unregula [58] The International Union for the Conservation of Nature	<u>`</u>			
Footnote		rtion is made if a regional population of the species has been assessed to be not vulnerable in	n a National Red List process that is managed explicitly in the same science-based way as IUCC conducted using IUCN's methodology and demonstrates that the population is not vulnerable		re a National Red List doe	sn't exist or
		Criterion 4.4 Source of non-marine rou Compliance Criteria (Required Client Actions):	w materials in feed Auditor Evaluation (Required CAB Actions):			
	Indicator: Presence and evidence of a responsible sourcing policy for the feed manufacturer for feed ingredients that comply with recognized crop	a. Compile and maintain a list of all feed suppliers with contact information. (See also $4.1.1a$)	2015G: No production. 2017G: 100% Skretting Skretting: www.skretting.com			
	moratoriums [60] and local laws [61] Requirement: Yes Applicability: All	 b. Obtain from each feed manufacturer a copy of the manufacturer's responsible sourcing policy for feed ingredients showing how the company compiles with recognized crop moratoriums and local laws. 	"Nutreco Supplier Code of Conduct" per June 2014 Not seen statement, declaration and calculations for feed supplier EWOS.	Compliant		
		 Confirm that third party audits of feed suppliers (4.1.1c) show evidence that supplier's responsible sourcing policies are implemented. 	Skretting: GlobalG.A.P. Certified, GGN: 4050373823641, valid to 22.06.2018.			
Footnote	[60] Moratorium: A period of time in which there is a su	spension of a specific activity until future events warrant a removal of the suspension or issu defined geograph	ies regarding the activity have been resolved. In this context, moratoriums may refer to suspe hical regions.	nsion of the gr	owth of defined agricultu	ral crops in
Footnote	[61] Specifically, the policy shall include that vegetable	ingredients, or products derived from vegetable ingredients, must not come from areas of the Moratorium be lifted, this specific rec	he Amazon Biome that were deforested after July 24, 2006, as geographically defined by the quirement shall be reconsidered.	Brazilian Soy M	oratorium. Should the Bra	azilian Soy
		 a. Prepare a policy stating the company's support of efforts to shift feed manufacturers' purchases of soya to soya certified under the Roundtable for Responsible Soy (RTRS) or equivalent. 	Statement regarding feed raw material sources, 05.01.2018 signed Odd Strøm - Nova Sea AS.			
	Indicator: Percentage of soya or soya-derived ingredients in the feed that are certified by the Roundtable for Responsible Soy (RTRS) or equivalent	b. Prepare a letter stating the farm's intent to source feed containing soya certified under the RTRS (or equivalent)	Statement regarding feed raw material sources, 05.01.2018 signed Odd Strøm - Nova Sea AS.			
4.4.2	[62] Requirement: 100%	c. Notify feed suppliers of the farm's intent (4.4.2b).	Feed suppliers informed of relevant ASC requirements in mail to Skretting 09.11.2017.	Compliant		100 %
	Applicability: All	d. Obtain and maintain declaration from feed supplier(s) detailing the origin of soya in the feed.	Skretting statement "Documentation to demonstrate compliance with ASC Standards for responsible salmon aquaculture", December 2016, includes information regarding soya.			
		e. Provide evidence that soya used in feed is certified by the Roundtable for Responsible Soy (RTRS) or equivalent [62]	Skretting statement "Documentation to demonstrate compliance with ASC Standards for responsible salmon aquaculture", December 2016, purchase soya which originate from ProTerra.			
Footnote		[62] Any alternate certification scheme would have to be approve				
	Indicator: Evidence of disclosure to the buyer [63] of the salmon of inclusion of transgenic [64] plant raw material,	 a. Obtain from feed supplier(s) a declaration detailing the content of soya and other plant raw materials in feed and whether it is transgenic. 	Skretting statement "Documentation to demonstrate compliance with ASC Standards for responsible salmon aquaculture", December 2016, no genetically feed raw materials are approved under Norwegian law.		Not soon confirmation	



4.4.3	or raw materials derived from transgenic plants, in the feed Requirement: Yes, for each individual raw material containing > 1% transgenic content [65] Applicability: All	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.	Skretting statement "Documentation to demonstrate compliance with ASC Standards for responsible salmon aquaculture", December 2016, no genetically feed raw materials are approved under Norwegian law. Not seen confirmation that the farm has informed ASC whether feeds containing transgenic ingredients are use on farm.	Minor	Not seen contirmation that the farm has informed ASC whether feeds containing transgenic ingredients are use on farm.
Footnote	[63] The compan	y or entity to which the farm or the producing company is directly selling its product. This sta	ndard requires disclosure by the feed company to the farm and by the farm to the buyer of t	neir salmon.	+
Footnote	[64] Transge	nic: Containing genes altered by insertion of DNA from an unrelated organism. Taking genes	from one species and inserting them into another species to get that trait expressed in the of	fspring.	
Footnote		[65] See Appendix VI for transpar Criterion 4.5 Non-biological waste J	from production		
		Compliance Criteria (Required Client Actions): a. Prepare a policy stating the farm's commitment to proper and responsible treatment of	Auditor Evaluation (Required CAB Actions):		
		non-biological waste from production. It must explain how the farm's policy is consistent with best practice in the area of operation.	Statement Nova Sea signed Odd Strøm 29.11.2017 states no dumping and waste disposal according to Norwegian law and delivered to recycling stations.		
	indicator: Presence and evidence of a functioning policy for proper and responsible [66] treatment of non-biological waste from production (e.g., disposal and recycling) Requirement: Yes Applicability: All	b. Prepare a declaration that the farm does not dump non-biological waste into the ocean.	Statement Nova Sea signed Odd Strøm 29.11.2017 states no dumping and waste disposal according to Norwegian law and delivered to recycling stations.		
4.5.1		c. Provide a description of the most common production waste materials and how the farm ensures these waste materials are properly disposed of.	Procedure "Avfallshåndtering sjø" 24.01.2018 states ensilage delivered to ScanBio, cages delivered to Østbø (and further to Nofir), nets to Østbø/Egersund Net (and further to Nofir), feed bags delivered to SAR/Retura SHMIL, special waste delivered to Østbø, metal delivered to Østbø/Retura SHMI, household waste delivered to Østbø/Retura SHMI, household waste delivered to Returna Iris/Retura HAF/Østbø, electronic waste delivered to Østbø/Retura SHMIL, light bulbs delivered to Østbø/Retura SHMIL. Procedure also describes storing, delivery time and handling. Medicines/treatments should be delivered to supplier/pharmacy.	Compliant	
		d. Provide a description of the types of waste materials that are recycled by the farm.	Cages/feed pipes delivered to Østbø (and further to Nofir for recycling). Nets/ropes to Østbø/Egersund Net (and further to Nofir for recycling).		
Footnote	[66] Proper and responsible disposal will vary based on fa biological waste into the ocean does not represent "prop	cilities available in the region and remoteness of farm sites. Disposal of non-biological waste er and responsible" disposal.	shall 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)	Procedure "Avfallshåndtering sjø" 24.01.2018 states ensilage delivered to ScanBio, cages delivered to Østbø (and further to Nofir), nest to Østbø/Egersund Net (and further to Nofir), feed bags delivered to SAR/Retura SHMIL, special waste delivered to Østbø, metal delivered to Nofir), feur als HMIL, household waste delivered to Retura Iris/Retura HAF/Østbø, electronic waste delivered to Østbø/Retura SHMIL, light bulbs delivered to Østbø/Retura SHMIL, light bulbs delivered to Østbø/Retura SHMIL, procedure also describes storing, delivery time and handling. Medicines/treatments should be delivered to supplier/pharmacy.		
	Indicator: Evidence that non-biological waste (including net pens) from grow-out site is either disposed of properly or recycled Requirement: Yes Applicability: All	b. Provide a description of the types of waste materials that are recycled by the farm. (See also 4.5.1d)	Cages/feed pipes delivered to Østbø (and further to Nofir for recycling). Nets/ropes to Østbø/Egersund Net (and further to Nofir for recycling).		
4.5.2		c. Inform the CAB of any infractions or fines for improper waste disposal received during the previous 12 months and corrective actions taken	No infractions identified.	Compliant	
		d. Maintain records of disposal of waste materials including old nets and cage equipment.	Nets delivered to Egersund Net (dep. Vevelstad), e.g. receipt from Egersund Net shows delivery of 15 nets 13.03.2017, 16 nets 19.06.2017 and 12 nets 0.1.12.017 Environment diploma 2016 for Nova Sea by Nofir, delivered 40079 kg fish farming nets (decrease in non-renewable resources is about 68134 kg oil equivalents, decrease in carbon footprint is about 144284 kg CO2 equivalents). Delivered to Retura SHMIL, 0.1.01.2017 - 31.12.2017, 550 kg oil and 7940 kg waste for grading.		
		Criterion 4.6 Energy consumption and greenhous Compliance Criteria (Required Client Actions):	e gas emissions on farms [67] Auditor Evaluation (Required CAB Actions):		
Footnote		[67] See Appendix VI for transparency rec			
		is applying for certification. Boundaries for operational energy use should correspond to the Scope 3 emissions (i.e. the energy used to fabricate materials that are purchased by the far energy use assessments across the board in the company. For the purposes of calculating energy consumption, the duration of the production cycle is	n) is not required. However the SAD Steering Committee encourages companies to integrate the entire life cycle "at sea" - it does not include freshwater smolt production stages. Farms insumption if possible. Quantities of energy (fuel and electricity) are converted to kilojoules.		
	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	Maintain records for energy consumption by source (fuel, electricity) on the farm throughout each production cycle.	No previous cycle, will be provided after harvest of current cycle.		
4.6.1					
	Requirement: Yes, measured in kilojoule/t fish produced/production cycle Applicability: All	 Calculate the farm's total energy consumption in kilojoules (kj) during the last production cycle. 	No previous cycle, will be provided after harvest of current cycle.		
	produced/production cycle	b. Calculate the farm's total energy consumption in kilojoules (kj) during the last production cycle. c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle.	No previous cycle, will be provided after harvest of current cycle. No previous cycle, will be provided after harvest of current cycle.	N/A	No previous cycle, will be provided after harvest of current cycle.
	produced/production cycle	cycle. C. Calculate the total weight of fish in metric tons (t) produced during the last production		N/A	be provided after
	produced/production cycle	cycle. c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle. d. Using results from 4.6.1b and 4.6.1c, calculate energy consumption on the farm as	No previous cycle, will be provided after harvest of current cycle. No previous cycle, will be provided after harvest of current cycle. Submitted to ASC 09.02.2018	N/A	be provided after
	produced/production cycle	cycle. c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle. d. Using results from 4.6.1b and 4.6.1c, calculate energy consumption on the farm as required, reported as kilojoule/mt fish/production cycle. e. Submit results of energy use calculations (4.6.1d) to ASC as per Appendix VI for each	No previous cycle, will be provided after harvest of current cycle. No previous cycle, will be provided after harvest of current cycle.	N/A	be provided after
	produced/production cycle	cycle. c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle. d. Using results from 4.6.1b and 4.6.1c, calculate energy consumption on the farm as required, reported as kilojoule/mt fish/production cycle. e. Submit results of energy use calculations (4.6.1d) to ASC as per Appendix VI for each production cycle. 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 this requirement is restricted to operational boundaries for the farm site(s) that is applying (GHG accounting practices across the board in the company. Verification may be done by int 14066-1 (see Appendix V-1 for more details).	No previous cycle, will be provided after harvest of current cycle. No previous cycle, will be provided after harvest of current cycle. Submitted to ASC 09.02.2018 Scope 1 Diesel. Scope 2 Electricity. Assessed and compared between sites and production forms. Detailed instructions are presented in Appendix V-1 and references therein. The scope of or certification. However the SAD Steering Committee encourages companies to integrate ernal or external assessment following either the GHG Protocol Corporate Standard or ISO	N/A	be provided after
	produced/production cycle	cycle. c. Calculate the total weight of fish in metric tons (t) produced during the last production cycle. d. Using results from 4.6.1b and 4.6.1c, calculate energy consumption on the farm as required, reported as kilojoule/mit fish/production cycle. e. Submit results of energy use calculations (4.6.1d) to ASC as per Appendix VI for each production cycle. 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 this requirement is restricted to operational boundaries for the farm site(s) that is applying in GHG accounting practices across the board in the company. Verification may be done by into	No previous cycle, will be provided after harvest of current cycle. No previous cycle, will be provided after harvest of current cycle. Submitted to ASC 09.02.2018 Scope 1 Diesel. Scope 2 Electricity. Assessed and compared between sites and production forms. Detailed instructions are presented in Appendix V-1 and references therein. The scope of or certification. However the SAD Steering Committee encourages companies to integrate ernal or external assessment following either the GHG Protocol Corporate Standard or ISO	N/A	be provided after



4.6.2	missions [69] on farm and evidence of an annual GHG assessment, as outlined in Appendix V-1 Requirement: Yes	b. At least annually, calculate all scope 1 and scope 2 GHG emissions in compliance with Appendix V-1.	Not seen annual GHG assessment.			
	Applicability: All	c. For GHG calculations, select the emission factors which are best suited to the farm's operation. Document the source of those emissions factors.	Not seen annual GHG assessment.	Minor	Not seen annual GHG assessment.	
		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.	Not seen annual GHG assessment.			
		e. Submit results of GHG calculations (4.6.2d) to ASC as per Appendix VI at least once per year.	Not seen annual GHG assessment.			
		f. Ensure that the farm undergoes a GHG assessment as outlined in Appendix V-1 at least annually.	Not seen annual GHG assessment.			
Footnote	[68] For the purposes of this sta	ndard, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide (CO ₂); n	nethane (CH4); nitrous oxide (N ₂ O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and	ulphur hexaflu	oride (SF ₆).	
Footnote		[69] GHG emissions must be recorded using recognized met	chods, standards and records as outlined in Appendix V.			
	Indicator: Documentation of GHG emissions of the feed [70] used during the previous production cycle, as outlined in Appendix V, subsection 2	from their feed supplier(s) and thereafter maintain a continuous record of Feed GHG emissi production cycle. Therefore farms should inform their feed supplier(s) and: the farm provides its feed suppliers with detailed information about the requirements incl 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 far	uding a copy of the methodology outlined in Appendix V, subsection 2; m to demonstrate compliance. tion used to produce the salmon (by weight) rather than using feed composition on a lot-by-			
4.6.3	Requirement: Yes	a. Obtain from feed supplier(s) a declaration detailing the GHG emissions of the feed (per	Skretting GHG emission factor 1,97 (2016).			
	Applicability: All	kg feed).				
		 Multiply the GHG emissions per unit feed by the total amount of feed from each supplier used in the most recent completed production cycle. 	Last production cycle (2015G): 0 ton feed.	N/A	Last production cycle (2015G): 0 ton CO2.	
		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.	Last production cycle (2015G): 0 ton CO2.		(2015G): 0 ton CO2.	
		d. Submit GHG emissions of feed to ASC as per Appendix VI for each production cycle.	Submitted to ASC 09.02.2018			
Footnote	[70] GHG emissions from feed can be given based on the	unit feed. Farm site then shall use that information to calculate GHG emi		r is responsible	for calculating GHG emis	ssions per
		Criterion 4.7 Non-therapeutic chemi Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote Footnote		[71] Closed production systems that do not use nets and do not use antifo [72] See Appendix VI for transparency rev				
		Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping.	Procedure "Vaskebåt" 26.10.2016 regarding washing at sea with Ronc/Rov or manually by washing boat. Procedure " Nøter, drift og vedlikehold" 23 01.2018 regarding control and records ("Havbruksloggen"), washing and off-site service, maintenance, etc.			
		b. Maintain records of antifoulants and other chemical treatments used on nets.	Smolt nets treated with "E5 Greenline", nets for large fish untreated.		Not seen farm policy	
4.7.1	in the marine environment Requirement: Yes	c. Declare to the CAB whether copper-based treatments are used on nets.	Copper-based treatment on 2 of 9 nets.	Major	and practice not allowing heavy cleaning for copper-treated nets in situ.	
	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.	Not seen farm policy and practice not allowing heavy cleaning for 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.	Submitted to ASC 09.02.2018			
Footnote			iffoulant) during the previous 18 months, or has not undergone thorough cleaning at a land-bi ling has elapsed as in this definition. This will allow farms to move away from use of copper w			
Footnote	[74] Light cleaning of nets is allowed. Intent of t	the standard is that, for example, the high-pressure underwater washers could not be used o	n copper treated nets under this standard because of the risk of copper flaking off during this	type of heavy	or more thorough cleaning	g.
		a. Declare to the CAB whether nets are cleaned on-land.	Nets are cleaned on-land by Egersund Net avd. Vevelstad.			
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	b. If nets are cleaned on-land, obtain documentary evidence from each net-cleaning facility that effluent treatment is in place.	Procedure from Egersund net "Måling og registrering av inntaks- og avløpsvann fra renseanlegg" 20.05.2017 states the shall not discharge waste water containing more copper than intake water contains. Egersund Net washing process 05.12.2017: Waste water cleaned and copper collected and delivered to Retura Shmil for recycling. Copper sedimented in own tank and stored for further disposal. Waste water is analyzed regularly for copper to ensure good cleaning process. Analyze record for 2017 shows effluent treatment of waste water. Seen confirmation from Retura SHMIL 0.102.2018 regarding delivery from Egersund net (departement Vevelstad) in the period 0.101.2017 - 31.12.2017: 53240 kg copper-mud organic and 31200 kg copper-mud unorganic.	Compliant		
	Applicability: All farms except as noted in [71]	c. If yes to 4.7.2b, obtain evidence that effluent treatment used at the cleaning site is an appropriate technology to capture of copper in effluents.	Egersund Net washing process 05.12.2017: Waste water cleaned and copper collected and delivered to Retura Shmill for recycling. Copper sedimented in own tank and stored for further disposal. Waste water is analyzed regularly for copper to ensure good cleaning process. Analyze record for 2017 shows effluent retarement of waste water. Seen confirmation from Retura SHMIL 01.02.2018 regarding delivery from Egersund net (departement Vevelstad) in the period 01.01.2017 - 31.12.2017: 53240 kg copper-mud organic and 31200 kg copper-mud unorganic.			
Footnote		[75] Treatment must have appropriate technologies in place	to capture copper if the farm uses copper-treated nets.			
		Note: If the benthos throughout and immediately outside the full AZE is hard bottom, provi	de 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-	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.	Copper-based treatment are used on 2 of 9 nets.			
4.7.3	treated nets, evidence of testing for copper level in the sediment outside of the AZE, following methodology in Appendix I-1 Requirement: Yes	b. If "yes" in 4.7.3a, measure and record copper in sediment samples from the reference stations specified in 2.1.1d and 2.1.2c which lie outside the AZE.	Reference stations: ASC ref 1 (4,59 mg Cu/kg) and ASC ref 2 (10,4 mg Cu/kg) Stations outside AZE: ASC 2 (4,68 mg Cu/kg) and ASC 4 (3,55 mg Cu/kg)	Minor	MOM-C not performed at peak biomass (at	



	Applicability: All farms except as noted in [71]	c. If "yes" in 4.7.3a, maintain records of testing methods, equipment, and laboratories used to test copper level in sediments from 4.7.3b.	MOM-C not performed at peak biomass (at >75% peak biomass) last production cycle. Guidance: Veileder TA 2229:2007 "Veileder for klassifisering av miljøkvalitet i fjorder og kystfarvann" Statens forurensingstilsyn. Method: EPA 200.7, ISO 11885, EPA 6010 and SM 3120.		>/5% peak biomass) iast production cycle.	
	Indicator: Evidence that copper levels [76] are < 34 mg Cu/kg dry sediment weight,	a. Inform the CAB whether: 1) farm is exempt from Indicator 4.7.4 (as per 4.7.3a), or 2) Farm has conducted testing of copper levels in sediment.	ASC survey by AquaKompetanse November 2012 (field work 17.11.2017), report 292-11- 17C KALVHYLLA, Olex map with 6 sampling points, adapted to site specific bathymetric, production, current, etc. (reference stations: ASC ref 1 and ASC ref 2, stations outside AZE: ASC 2 and ASC 4, stations inside AZE: ASC 1 and ASC 3).			
	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	b. Provide evidence from measurements taken in 4.7.3b that copper levels are < 34 mg Cu/kg dry sediment weight.	Copper level are <34 mg Cu/kg dry sediment: Reference stations: ASC ref 1 (4,59 mg Cu/kg) and ASC ref 2 (10,4 mg Cu/kg) Stations outside AZE: ASC 2 (4,68 mg Cu/kg) and ASC 4 (3,55 mg Cu/kg)			Max. 4,68
	the water body Requirement: Yes Applicability: All farms except as noted in [71] and	c. If copper levels in 4.7.4b are \geq 34 mg Cu/kg dry sediment weight, provide evidence the farm tested copper levels in sediments from reference sites as described in Appendix I-1 (also see Indicators 2.1.1 and 2.1.2).	Copper level are <34 mg Cu/kg dry sediment	Compliant		Wdx. 4,00
	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.	Copper level are <34 mg Cu/kg dry sediment			
		e. Submit data on copper levels in sediments to ASC as per Appendix VI for each production cycle.	Submitted to ASC 09.02.2018			
Footnote		[76] According to testing required under 4.7.3. The standards related to testing of copp	er are only applicable to farms that use copper-based nets or copper-treated nets.			
	Indicator: Evidence that the type of biocides used in net antifouling are approved according to legislation in the European Union, or the United States, or Australia	a. Identify all biocides used by the farm in net antifouling.	Smolt nets treated with "ES Greenline", nets for large fish untreated.			
4.7.5	Requirement: Yes Applicability: All farms except as noted in [71]	b. Compile documentary evidence to show that each chemical used in 4.7.5a is approved according to legislation in one or more of the following jurisdictions: the European Union, the United States, or Australia.	Netwax E5 Greenline is satisfying declared (700111) according to product information record at Norwegian Environment Agency.	Compliant		
PRINCIPLE 5: I	MANAGE DISEASE AND PARASITES IN AN ENVIRONMENTA					
		Criterion 5.1 Survival and health of Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote		[77] See Appendix VI for transparency rec				
	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	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.	VHP for Nova Sea includes diseases/parasites, treatments, health goals, cleaner fish, proactive measures, handling, veterinary visits, etc. signed Kristin Ottesen - HaVet 23.01.2017. Site specific health plans for Kalvhylla with goals, visit log, etc. Signed Iselin B. Stock Evje - HaVet.	Compliant		
	5.1.1 action when required Requirement: Yes	b. Ensure that the farm's current fish health management plan was reviewed and approved by the farm's designated veterinarian [78].	VHP for Nova Sea includes diseases/parasites, treatments, health goals, cleaner fish, proactive measures, handling, veterinary visits, etc. signed Kristin Ottesen - HaVet 23.01.2017. Site specific health plans for Kalvhylla with goals, visit log, etc. Signed Iselin B. Stock Evje-HaVet.	Compilant		
	Indicator: Site visits by a designated veterinarian [78] at least four times a year, and by a fish health manager [79] at least once a month Requirement: Yes Applicability: All	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.	Minimum 12 visits per year. Visit by designated veterinarian consist of e.g. inspection of fish and dead fish, diagnose, training, etc. Report from routine visit 28.11.2017 by Iselin B. Stock Evje - HaVet; obduction of fish, PD samples, etc.			
5.1.2		b. Maintain a current list of personnel who are employed as the farm's designated veterinarian(s) [78] and fish health manager(s) [79].	Iselin B. Stock Evje, HPR 10032014, valid to 17.05.2063 Mattias Bendiksen Lund, HPR 10030512, valid to 19.01.2065 Kristin Ottesen, HPR 8333485, valid to 10.05.2048 Rebekka B. @Gapard, HPR 1003073, valid to 14.09.2061 loan Simion, HPR 10002007, valid to 09.01.2062	Compliant		
		c. Maintain records of the qualifications of persons identified in 5.1.2b.	Iselin B. Stock Evje, HPR 10032014, valid to 17.05.2063 Mattias Bendiksen Lund, HPR 10030512, valid to 19.01.2065 Kristin Ottesen, HPR 833485, valid to 10.05.2048 Rebekka B. @Gapard, HPR 1003073, valid to 14.09.2061 loan Simion, HPR 10002007, valid to 09.01.2062			
Footnote	[78] A designated veterinarian is the professional respon	sible for health management on the farm who has the legal authority to diagnose disease an and is equivalent to a veterinarian for purposes of these standards. This definition	nd prescribe medication. In some countries such as Norway, a fish health biologist or other pro applies to all references to a veterinarian throughout the standards document.	ofessional has e	quivalent professional qu	ualifications
Footnote	[79] A fish health ma	nager is someone with professional expertise in managing fish health, who may work for a fa	arming company or for a veterinarian, but who does not necessarily have the authority to pres	cribe medicine		
		a. Maintain records of mortality removals to show that dead fish are removed regularly and	Daily removal of dead fish (registration in FishTalk system) and processed to ensilage. Ensilage collected on tank and delivered to Hordaför, e.g. delivery of 16 ton ensilage to			
	Indicator: Percentage of dead fish removed and disposed of in a responsible manner	disposed of in a responsible manner.	Hordaför 02.02.2018 (reference 91672). System established for handling and documentation according to requirements in national			
	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. 	legislation handled by NFSA. Ensilage collected on tank and delivered to Hordafór, e.g. delivery of 15 ton ensilage to Hordafór 30.11.2017 (reference 91458).	Compliant		
		c. For any exceptional mortality event where dead fish were not collected for post-mortem analysis, keep a written justification.	No exceptional mortalities on current cycle (2017G). No previous cycle.			
Footnote	[80]	The SAD recognizes that not all mortality events will result in dead fish present for collection	n and removal. However, such situations are considered the exception rather than the norm.			
		Note: Farms are required to maintain mortality records from the current and two previous prequired. It is recommended that farms maintain a compiled set of records to demonstrate complian				
		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; - 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).	FishTalk record shows all mortalities and causes No last complete cycle, 176 is first cycle. Precent cycle (176): total mortality 7,12% of this 42,81% is virus and 11,64% unexplained mortality (unexplained+virus 54,45%).			
5.1.4	Indicator: Percentage of mortalities that are recorded, classified and receive a post-mortem analysis Requirement: 100% [81]	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.	All mortalities are diagnosed and post-mortem analysis are done on a statistically relevant number of fish (ref unspecified numbers above). Lab analyses routinely.			
	Applicability: All	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).	Report from routine visit 28.11.2017 by Iselin B. Stock Evje - HaVet; obduction of fish, PD samples, etc.	Compliant		100 %



i	1			r	ı ı	ı
		d. Using results from 5.1.3a-c, classify each mortality event and keep a record of those classifications.	Record are available and documented in Fish Talk, all mortalities are categorised.			
		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).	Record are available and documented in Fish Talk, all mortalities are categorised.			
		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).	Submitted to ASC 09.02.2018			
Footnote	[81] If on-site diagnosis is inconclusive, this standard requ	i uires off-site laboratory diagnosis. A qualified professional must conduct all diagnosis. One hi mortality event sha	undred percent of mortality events shall receive a post-mortem analysis, not necessarily every Ill be analyzed.	fish. A statistic	cally relevant number of f	fish from the
		a. Calculate the total number of mortalities that were diagnosed (see 5.1.4) as being related to viral disease.	No last complete cycle, 17G is first cycle.			
5.1.5	Indicator: Maximum viral disease-related mortality [82] on farm during the most recent production cycle Requirement: < 10%	b. Combine the results from 5.1.5a with the total number of unspecified and unexplained mortalities from the most recent complete production cycle. Divide this by the total number of fish produced in the production cycle (x100) to calculate percent maximum viral disease-related mortality.	No last complete cycle, 17G is first cycle.	N/A	No last complete cycle, 17G is first cycle.	
	Applicability: All	c. Submit data on total mortality and viral disease-related mortality to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).	Submitted to ASC 09.02.2018			
Footnote		[82] Viral disease-related mortality count shall include unspecified a	Ind unexplained mortality as it could be related to viral disease.			
	Indicator: Maximum unexplained mortality rate from each of the previous two production cycles, for farms with total mortality > 6%	 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. 	No last complete cycle, 17G is first cycle.			
5.1.6	Requirement: ≤ 40% of total mortalities Applicability: All farms with > 6% total mortality in the	 Calculate the unexplained mortality rate (%) for each of the two production cycles immediately prior to the current cycle. For first audit, calculation must cover one full production cycle immediately prior to the current cycle. 	No last complete cycle, 17G is first cycle.	N/A	No last complete cycle, 17G is first cycle.	
	most recent complete production cycle.	c. Submit data on maximum unexplained mortality to ASC as per Appendix VI for each production cycle.	Submitted to ASC 09.02.2018			
		Note: Farms have the option to integrate their farm-specific mortality reduction program in	to the farm's fish health management plan (5.1.1).			
	Indicator: A farm-specific mortalities reduction program that includes defined annual targets for reductions in mortalities and reductions in uncertailities.	a. Use records in 5.1.4a to assemble a time-series dataset on farm-specific mortalities rates and unexplained mortality rates.	VHP for Nova Sea includes diseases/parasites, treatments, health goals, cleaner fish, proactive measures, handling, veterinary visits, etc. signed Kristin Ottesen - HaVet 23.01.2017. Site specific health plans for Kalvhylla with goals, visit log, etc. Signed Iselin B. Stock Evje - HaVet.			
5.1.7	Requirement: Yes Applicability: All	 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. 	VHP for Nova Sea includes diseases/parasites, treatments, health goals, cleaner fish, proactive measures, handling, veterinary visits, etc. signed Kristin Ottesen - HaVet 23.01.2017. Site specific health plans for Kalvhylla with goals, visit log, etc. Signed Iselin B. Stock Evje - HaVet.	Compliant		
		c. Ensure that farm management communicates with the veterinarian, fish health manager, and staff about annual targets and planned actions to meet targets. Criterion 5.2 Therapeutic treat	In interview site staff were aware of targets in VHP/fish health plan.			
Footnote		Compliance Criteria (Required Client Actions): [83] See Appendix VI for transparency require	Auditor Evaluation (Required CAB Actions):			
	o Clients and CABs for Criterion 5.2 - Records Related to T					
	.1 requires that farms maintain detailed record of all chemi 2.1 through 5.2.10) under Criterion 5.2.	ical and therapeutant use. Those records maintained for compliance with 5.2.1, if all consolic	lated into a single place, can be used to demonstrate performance against subsequent			
5.2.1	Indicator: On-farm documentation that includes, at a minimum, detailed information on all chemicals [84] and therapeutants used during the most recent producion cycle, the amounts used (including grams per ton of fish produced), the dates used, which group of fish were treated and against which diseases, proof of proper	a. Maintain a detailed record of all chemical and therapeutant use that includes: - name of the veterinarian prescribing treatment; - product name and chemical name; - reason for use (specific disease) - date(s) of treatment; - amount (g) of product used; - dosage; - t of fish treated; - the WHO classification of antibiotics (also see note under 5.2.8); and - the supplier of the chemical or therapeutant.	List with approved chemicals/therapeutants "Godkjente legemidier i Nova Sea" 24.01.2017 with name of product, active substance, withdrawal period, MRL, marketing company, authorizing country. Treatments done are anaesthetics and delicing, all under responsible veterinarian's prescriptions. No Antibiotics used. Registered in Fishtalk; fish group, treatment, date for usage, quantity and dosage, withdrawal periods, batch, etc.	Compliant		
	dosing, and all disease and pathogens detected on the site Requirement: Yes Applicability: All	b. If not already available, assemble records of chemical and therapeutant use to address all points in 5.2.1a for the previous two production cycles. For first audits, available records must cover one full production cycle immediately prior to the current cycle.	Prescriptions and FishTalk records available. E.g. Prescription 507000 for Kalvhylla, veterinarian Iselin B. Stock Evje 15.05.2017, 2 kg Finquel, 25 daydegrees withdrawal period. E.g. Fishtalk record for group 17.01.008, 30.07.2017, Finquel, batch 17c130/1, quarantine until 02.08.2017			
		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).	Submitted to ASC 09.02.2018			
Footnote		[84] Chemicals used for ti	l he treatment of fish.			
	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	 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]. 	Not seen list of antibiotics and treatments that are banned in any of the primary salmon producing or importing countries.		Not seen list of antibiotics and treatments that are	
5.2.2	countries [86] Requirement: None Applicability: All	Maintain records of voluntary and/or mandatory chemical residue testing conducted or commissioned by the farm from the prior and current production cycles.	NFSA mandatory testing by NIFES on site and/or at harvest line. Results published in yearly NIFES report.	Minor	banned in any of the primary salmon producing or importing countries.	
		-	-			
Footnote	[85] "Banned" means proactively prohibited by a gove	ernment entity because of concerns around the substance. A substance banned in any of the country of production or destination of the product. The SAD reco	primary salmon-producing or importing countries, as defined here, cannot be used in any sal ommends that ASC maintain a list of a banned therapeutants.	mon farm cert	ified under the SAD, regar	rdless of
Footnote		[86] For purposes of this standard, those countries are Norway,	the UK, Canada, Chile, the United States, Japan and France.			
5.2.3	Indicator: Percentage of medication events that are prescribed by a veterinarian	Obtain prescription for all therapeutant use in advance of application from the farm veterinarian (or equivalent, see [78] for definition of veterinarian).	Prescriptions and FishTalk records available. E.g. Prescription 507000 for Kalvhylla, veterinarian Iselin B. Stock Evje 15.05.2017, 2 kg Finquel, 25 daydegrees withdrawal period.	Compliant		100 %
3.2.3	Requirement: 100% Applicability: All	b. Maintain copies of all prescriptions and records of veterinarian responsible for all medication events. Records can be kept in conjunction with those for 5.2.1 and should be kept for the current and two prior production cycles.	100 % of treatments are prescribed by a veterinarian, prescriptions stored in system.	Compilatit		200 70
			100% of treatments are prescribed by a veterinarian. Prescriptions in system. Treatments			



5.2.4	Requirement: Yes Applicability: All		Documented in FishTalk. Treated fishgroups marked in FishTalk according to days/degree- days withholding period stated in prescription.	Compliant		
		c. Show compliance with all withholding periods by providing treatment records (see 5.2.1a) and harvest dates for the most recent production cycle.	Verified in CVs for fishgroups (CV report from FishTalk).			
	Indicator: Maximum farm level cumulative parasiticide treatment index (PTI) score as calculated according to the formula in Appendix VII	a. Using farm data for therapeutants usage (5.2.1a) and the formula presented in Appendix VII, calculate the cumulative parasiticide treatment index (PTI) score for the most recent production cycle. Calculation should be made and updated on an ongoing basis throughout the cycle by farm manager, fish health manager, and/or veterinarian.	2017G: 0 No previous cycle			
	Requirement: PTI score ≤ 13 Applicability: All	b. Provide the auditor with access to records showing how the farm calculated the PTI score.	Calculations verified	N/A	No previous cycle	
		c. Submit data on farm level cumulative PTI score to ASC as per Appendix VI for each production cycle.	Submitted to ASC 09.02.2018			
			2017G: 0 No previous cycle			
	Indicator: For farms with a cumulative PTI ≥ 6 in the most recent production cycle, demonstration that parasiticide load [87] is at least 15% less that of the average of the two previous production cycles	b. Using results from \$5.2.5 and the weight of fish treated (kg), calculate parasiticide load in the most recent production cycle [90].	No last complete cycle, 17G is first cycle.			
	Requirement: Yes Applicability: All farms with a cumulative PTI ≥ 6 in the most recent production cycle	c. Calculate parasiticide load in the two previous production cycles as above (5.2.6b) and compute the average. Calculate the percent difference in parasiticide load between current cycle and average of two previous cycles. For first audit, calculation must cover one full production cycle immediately prior to the current cycle.	No last complete cycle, 17G is first cycle.	N/A	No previous cycle	
		d. As applicable, submit data to ASC on parasiticide load for the most recent production cycle and the two previous production cycles (Appendix VI).	Submitted to ASC 09.02.2018			
Footnote	[87] Parasiticide load = Sum (kg of fish treated x PTI). Re	l duction in load required regardless of whether production increases on the site. Farms that c sites.	consolidate production across multiple sites within an ABM can calculate reduction based on	the combined	parasiticide load of the co	nsolidated
	Indicator: Allowance for prophylactic use of antimicrobial treatments [88]	Maintain records for all purchases of antibiotics (invoices, prescriptions) for the current and prior production cycles.	No ABs used prophylactic the recent cycles		No ABs used	
5.2.7		b. Maintain a detailed log of all medication-related events (see also 5.2.1a and 5.2.3)	No ABs used prophylactic the recent cycles	N/A	prophylactic the recent cycles	
	Applicability: All	 c. Calculate the total amount (g) and treatments (#) of antibiotics used during the current and prior production cycles (see also 5.2.9). 	No ABs used prophylactic the recent cycles			
Footnote		[88] The designated veterinarian must certify that a pathogo	en or disease is present before prescribing medication.			
		Note 1: Farms have the option to certify only a portion of the fish or farm site when WHO-lis option, farms must request an exemption from the CAB in advance of the audit and provide fish. Note 2: It is recommended that the farm veterinarian review the WHO list [see 89] in detail and is not inclusive of all drugs.	sufficient records giving details on which pens were treated and traceability of those treated			
	Indicator: Allowance for use of antibiotics listed as critically important for human medicine by the World	Maintain a current version of the WHO list of antimicrobials critically and highly	WHO Critically important antimicrobials for human medicine 5th revision, October 2016. List of treatments used is presented, no AB's used at site.			
5.2.8	Health Organization (WHO [89]) Requirement: None [90]	b. If the farm has <u>not</u> used any antibiotics listed as critically important (5.2.8a) in the current production cycle, inform the CAB and proceed to schedule the audit.	WHO Critically important antimicrobials for human medicine 5th revision, October 2016. List of treatments used is presented, no AB's used at site.			
	Applicability: All		WHO Critically important antimicrobials for human medicine 5th revision, October 2016. List of treatments used is presented, no AB's used at site.	Compliant		
		d. If yes to 5.2.8c, request an exemption from the CAB to certify only a portion of the farm. Prior to the audit, provide the CAB with records sufficient to establish details of treatment, which pens were treated, and how the farm will ensure full traceability and separation of treated fish through and post- harvest.	WHO Critically important antimicrobials for human medicine 5th revision, October 2016. List of treatments used is presented, no AB's used at site.			
Footnote	[89] The		2009 and is available at: http://www.who.int/foodsafety/publications/antimicrobials-fifth/e	n/.		
Footnote		[90] If the antibiotic treatment is applied to only a portion of the pens on a farm site Note: for the purposes of Indicator 5.2.9, "treatment" means a single course of medication g	, fish from pens that did not receive treatment are still eligible for certification. given to address a specific disease issue and that may last a number of days and be applied in			
	Indicator: Number of treatments [91] of antibiotics over	one or more pens (or cages).				
5.2.9	the most recent production cycle Requirement: ≤ 3 Applicability: All	 Maintain records of all treatments of antibiotics (see 5.2.1a). For first audits, farm records must cover the current and immediately prior production cycles in a verifiable statement. 	No antibiotics used	Compliant		0
		 b. Calculate the total number of treatments of antibiotics over the most recent production cycle and supply a verifiable statement of this calculation. 	No antibiotics used			
Footnote		[91] A treatment is a single course medication given to address a	a specific disease issue and that may last a number of days.			
		Note: Indicator 5.2.10 requires that farms must demonstrate a reduction in load required, reacross multiple sites within an ABM can calculate reduction based on the combined antibiot				
	Indicator: If more than one antibiotic treatment is used in the most recent production cycle, demonstration that	 a. Use results from 5.2.9b to show whether more than one antibiotic treatment was used in the most recent production cycle. If not, then the requirement of 5.2.10 does not apply. If yes, then proceed to 5.2.10b. 	No antibiotics used			
5.2.10	the antibiotic load [92] is at least 15% less that of the average of the two previous production cycles Requirement: Yes [93]	b. Calculate antibiotic load (antibiotic load = the sum of the total amount of active ingredient of antibiotic used in kg) for most recent production cycle and for the two previous production cycles. For first audit, calculation must cover one full production cycle immediately prior to the current cycle.	No antibiotics used	N/A	No antibiotics used	
	Applicability: All	c. Provide the auditor with calculations showing that the antibiotic load of the most recent production cycle is at least 15% less than that of the average of the two previous production cycles.	No antibiotics used			
		d. Submit data on antibiotic load to ASC as per Appendix VI (if applicable) for each production cycle.	Submitted to ASC 09.02.2018			
Footnote	[93] Reduction in load required, re	[92] Antibiotic load = the sum of the total amount egardless of whether production increases on the site. Farms that consolidate production acre	of active ingredient of antibiotics used (kg). ross multiple sites within an ABM can calculate reduction based on the combined antibiotic le	ad of the cons	olidated sites.	
	Indicator: Presence of documents demonstrating that the farm has provided buyers [94] of its salmon a list of all therapoutants used in production	 a. Prepare a procedure which outlines how the farm provides buyers [94] of its salmon with a list of all therapeutants used in production (see 4.4.3b). 	Procedure "Fakturering i Visma" 10.10.2017 states that CV shall follow sales.			



	all therapeutants used in production					
5.2.11	·			Compliant		
	Requirement: Yes Applicability: All	b. Maintain records showing the farm has informed all buyers of its salmon about all therapeutants used in production.	Seen example of FishTalk CV for cage 6 with treatment at FW site with vaccine Pentium Forte Pluss, and SW treatments e.g. Finquel 22.01.2018 and Finquel 09.10.2017.			
	Applicability: All					<u> </u>
Footnote		[94] Buyer: The company or entity to which the farm or t Criterion 5.3 Resistance of parasites, viruses and bo	acteria to medicinal treatments			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			\vdash
		Instruction to Clients for Indicator 5.3.1 - Identifying the 'Expected Effect' of Medicinal Tre indicator 5.3.1 requires that farms identify treatments that have not produced the expected health condition and type of medicinal treatment. Therefore farms and auditors will need to the impact of treatment. Example: sea lice treatment with Emamektin benzoate	I effect. The SAD Steering Committee recognizes that the "expected effect" will vary with o review the pre- and post-treatment condition of fish in order to understand and evaluate			
	Indicator: Bio-assay analysis to determine resistance	The SAD SC recommends that a typical baseline for effectiveness of Emamektin benzoate is whether treatment has produced the expected effect, farm and auditor must review pre- an treatment did not produce the expected effect and a bio-assay should be performed to dete Note: If field-based bio-assays for determining resistance are ineffective or unavailable, the formation. The auditor shall record in the audit report why field-based bio-assays were deer	nd post-treatment lice counts. If the calculated percent reduction in lice is < 90% then the ermine whether sea lice have developed resistance. farm shall have samples analyzed by an independent laboratory to determine resistance			
5.3.1	when two applications of a treatment have not produced the expected effect Requirement: Yes	formation. a. In addition to recording all therapeutic treatments (5.2.1a), keep a record of all cases	neu memeruse and sman include results nom the ladoratory amaryses of resistance			
ı	Applicability: All	where the farm uses two successive medicinal treatments.	No consecutive treatments done in present cycle without desired effect.			
		b. Whenever the farm uses two successive treatments, keep records showing how the farm evaluates the observed effect of treatment against the expected effect of treatment.	No consecutive treatments done in present cycle without desired effect.	N/A	No consecutive treatments done in present cycle without desired effect.	
		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.	No consecutive treatments done in present cycle without desired effect.		desired effect.	
		d. Keep a record of all results arising from 5.3.1c.	No consecutive treatments done in present cycle without desired effect.			
1	Indicator: When bio-assay tests determine resistance is forming, use of an alternative, permitted treatment, or an immediate harvest of all fish on the site	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.	No consecutive treatments done in present cycle without desired effect.		No consecutive treatments done in	
	Requirement: Yes Applicability: All	b. When bio-assay tests show evidence that resistance has formed, keep records showing that the farm took one of two actions: - used an alternative treatment (if permitted in the area of operation); or - immediately harvested all fish on site.	No consecutive treatments done in present cycle without desired effect.	N/A	present cycle without desired effect.	
		Criterion 5.4 Biosecurity manag Compliance Criteria (Required Client Actions):				
Footnote		Compilance Criteria (Required Client Actions): [95] See Appendix VI for transparency				
	Indicator: Evidence that all salmon on the site are a	 a. Keep records of the start and end dates of periods when the site is fully fallow after harvest. 	2015G last harvest date: no production Stocking 2017G from 05.05.2017 to 11.06.2017			
5.4.1	single-year class [96] Requirement: 100% [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.	2015G last harvest date: no production Stocking 2017G from 05.05.2017 to 11.06.2017	Compliant		
ı	Applicability: All farms except as noted in [97]		Stocking 2017G from 05.05.2017 to 11.06.2017			
Footnote	1) farm sit				er effective treatment of	effluent)
		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.	Continuos evaluation. No events of UIA category mortality categorized nor suspected for the most recent production cycle. No UIA detected nor suspected at farm. Ref to indicator 5.1.4 a for details of monitoring.			
	Indicator: Evidence that if the farm suspects an unidentifiable transmissible agent, or if the farm experiences unexplained increased mortality, [98] the	 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. 	Continuos evaluation. No events of UIA category mortality categorized nor suspected for the most recent production cycle. No UIA detected nor suspected at farm. Ref to indicator 5.1.4 a for details of monitoring.			
5.4.2	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. Prompty [100] made findings publicly available	c. Proceed to 5.4.2d if, during the most recent production cycle, either: - results from 5.4.2a showed a statistically significant increase in unexplained mortalities; or - the answer to 5.4.2b was 'yes'. Otherwise, Indicator 5.4.2 is not applicable.	No UIA detected nor suspected at farm.	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.	No UIA detected nor suspected at farm.			
		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).	No UIA detected nor suspected at farm.			
Footnote Footnote		[98] Increased mortality: A statistically significant inc [99] Primary aim of monitoring and surveillance is to investigat [100] Within or	e whether a new or adapted disease is present in the area.			
		Instruction to Clients for Indicator 5.4.3 - Compliance with the OIE Aquatic Animal Health Indicator 5.4.3 requires that farms show evidence of compliance with the OIE Aquatic Anima	Code al Health Code (see http://www.oie.int/index.php?id=171). Compliance is defined as farm ard, this means that the farm must have written procedures stating how the farm will initiate = not previously found in the area or had been fully eradicated (area declared free of the			
	Indicator: Evidence of compliance [101] with the OIE Aquatic Animal Health Code [102]	To demonstrate compliance with Indicator 5.4.3, clients have the to option to describe how developing relevant policies and procedures and integrating them into the farm's fish health	n management plan.			
5.4.3	Requirement: Yes	Note: The Steering Committee recognizes that establishment of quarantine zones will likely though not necessarily all, of the ABM.				
	Applicability: All	a. Maintain a current version of the OIE Aquatic Animal Health Code on site or ensure staff	Link to OIE "Aquatic Animal Health Code 2017" (relevant diseases in list are Pancreas Disease and Infectious salmon anemia virus).			
		have access to the most current version.	VHP for Nova Sea includes diseases/parasites, treatments, health goals, cleaner fish,			



1	1					
		-	Verified during audit.			
	[101] Compliance is defined as farm practices consistent	! t with the intentions of the Code, to be further outlined in auditing guidance. For purposes of	this standard, this includes an aggressive response to detection of an exotic OIE-notifiable di	sease on the fa	rm, which includes depopu	ulating the
Footnote		accordance with guidelines from OIE for the specific pathogen. Quarantine zones will likely in previously found in the area or had been fully erac	ncorporate mandatory depopulation of sites close to the infected site and affect some, thoug			
Footnote		[102] OIE 2011. Aquatic Animal Health Code.	http://www.oie.int/index.php?id=171.			
		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.	Site/management has the responsibility to inform governments if notifiable diseases occur.			
	Indicator: If an OIE-notifiable disease [103] is confirmed on the farm, evidence that: 1. the farm has, at a minimum, immediately culled the	b. Inform the CAB if an OIE-notifiable disease has been confirmed on the farm during the current production cycle or the two previous production cycles. If yes, proceed to 5.4.4c. if no, then 5.4.4c an 5.4.4d do not apply.	No occurrence of OIE-notifiable diseases.			
	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	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.	No occurrence of OIE-notifiable diseases.	N/A	No occurrence of OIE- notifiable diseases.	
	Requirement: Yes 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).	Submitted to ASC 09.02.2018			
			No occurrence of OIE-notifiable diseases.			
Footnote	[103] At the time of publication of the final draft star	ndards, OIE-notifiable diseases relevant to salmon aquaculture were: Epizootic hematopoietic (Gyrodactylus		morrhagic septi	icaemia (VHS) and Gyrodao	etylosis
Footnote Footnote		[104] This is in addition to any notifications to regulatory bodies r				
	DEVELOP AND OPERATE FARMS IN A SOCIALLY RESPONSIE	Social requirements in the standards shall be audited by an individual who is a le				
PRINCIPLE 6.	DEVELOP AND OPERATE PARINS IN A SOCIALLY RESPONSE	6.1 Freedom of association and collection	ve bargaining [106] ce Criteria			
Footnote	[106] Bargain	collectively: A voluntary negotiation between employers and organizations of workers in ord		ements.		
			50% workers are organised. The information on Freedom of association is presented in Self declaration of Social Practice. Workers aware of their right.		In interview TU representative states,	
	Indicator: Evidence that workers have access to trade unions (if they exist) and union representative(s) chosen by themselves without manageral interference	b. Union representatives (or worker representatives) are chosen by workers without managerial interference. ILO specifically prohibits "acts which are designated to promote the establishment of worker organizations or to support worker organizations under the control or employers or employers' organizations."	TU worker representative: Ion Arne Nygaard for the area. The worker representative works with organised employees. Safety representative for area is elected Tor Erik Sarassen.		that he has insufficient information about activities in HR (hiring, dismissing, discrimination handling, conflict/grievance	
6.1.1	Requirement: Yes Applicability: All		The worker representative communicate with employees in meetings and by phone or e-mail. NC evidence: In interview TU representative states, that he has insufficient information about activities in HR (hiring, dismissing, discrimination handling, conflict/grievance solving etc.) to do good service for workers. The time for meeting and communicating the workers is not properly allocated, as no dedicated procedure for replacing TU representative at his direct job is defined.	Minor	solving etc.) to do good service for workers. The time for meeting and communicating the workers is not properly allocated, as no dedicated procedure for replacing TU representative at his direct job is defined.	
		d. Be advised that workers and union representatives (if they exist) will be interviewed to confirm the above.	Interview confirms information above			
	Indicator: Evidence that workers are free to form	a. Employment contract explicitly states the worker's right of freedom of association.	The Job contracts has link to Self declaration of Social Practice of the Company.			
6.1.2	organizations, including unions, to advocate for and protect their rights Requirement: Yes	b. Employer communicates that workers are free to form organizations to advocate for and protect work rights (e.g. farm policies on Freedom of Association; see 6.12.1).	The right is communicated via training of quality system which has Self declaration of Social practice. Site managers are responsible to communicate the Self declaration of Social practice to all employees.	Compliant		
	Applicability: All	c. Be advised that workers will be interviewed to confirm the above.	Interview confirms information above.			
	Indicator: Evidence that workers are free and able to		No outstanding cases what are in conflict with standard requirements.			
6.1.3	bargain collectively for their rights Requirement: Yes	freedom of association and collective bargaining rights. b. Employer has explicitly communicated a commitment to ensure the collective bargaining rights of all workers.	Collective bargaining agreement in place as Tariff agreement.	Compliant		
	Applicability: All	c. There is documentary evidence that workers are free and able to bargain collectively (e.g.	Collective bargaining agreement in place as Tariff agreement.			
		collective bargaining agreements, meeting minutes, or complaint resolutions). Criterion 6.2 Child lab				
		Complian a. In most countries, the law states that minimum age for employment is 15 years. There are two possible exceptions: - In developing countries where the legal minimum age may be set to 14 years (see footnote 188).	ce Criteria			
6.2.1	Indicator: Number of incidences of child [107] labor [108] Requirement: None	in countriez Job, or in countries where the legal minimum age is set higher than 15 years, in which case the legal minimum age of the country is followed. If the farm operates in a country where the legal minimum ages is not 15, then the employer shall maintain documentation attesting to this fact.	Standard requirements apply.	Compliant		
	Applicability: All except as noted in [107]	b. Minimum age of permanent workers is 15 or older (except in countries as noted above).	The youngest employee on the date of certification - over 18 years old.			
		c. Employer maintains age records for employees that are sufficient to demonstrate compliance.	Records are kept in HR system.			
Footnote	[107] Child: Any person under 15 years of age. A	I higher age would apply if the minimum age law of an area stipulates a higher age for work o	r mandatory schooling. Minimum age may be 14 if the country allows it under the developing	g country excep	otions in ILO convention 13	18.
Footnote		[108] Child Labor: Any work by a child younger tha	n the age specified in the definition of a child.			
		a. Young workers are appropriately identified in company policies & training programs, and job descriptions are available for all young workers at the site.	Most of the relevant training young workers receives as all other employees. The job conditions and limitations are defined in job contract attachment for young workers.			
		b. All young workers (from age 15 to less than 18) are identified and their ages are	The young workers are identified by IDs.			
	Indicator: Percentage of young workers [109] that are protected [110]	confirmed with copies of IDs. c. Daily records of working hours (i.e. timesheets) are available for all young workers.	Timesheets are available			
6.2.2	Requirement: 100% Applicability: All	d. For young workers, the combined daily transportation time and school time and work time does not exceed 10 hours.	Work is organised in 7/7 shifts. Timesheets are available, what was agreed with training institution and the parents of young employee. NC evidence: Time sheets of young worker.	Minor	Time sheets of young worker.	
					·	



		e. Young workers are not exposed to hazards [111] and do not perform hazardous work [112]. Work on floating cages in poor weather conditions shall be considered hazardous.	The general hazards that should be avoided are discussed with young workers prior to each work.			
		Be advised that the site will be inspected and young workers will be interviewed to confirm compliance.	No young workers were employed on the date of the audit.			
Footnote		[109] Young Worker: Any worker between the age of a	a child, as defined above, and under the age of 18.			
Footnote	[110] Protected: Workers between 15 and 18 yes	ars of age will not be exposed to hazardous health and safety conditions; working hours shall	not interfere with their education and the combined daily transportation time and school time	ne, and work tir	ne shall not exceed 10 ho	urs.
Footnote	[1:	11] Hazard: The inherent potential to cause injury or damage to a person's health (e.g., unequ	uipped to handle heavy machinery safely, and unprotected exposure to harmful chemicals).			
Footnote	[112] Hazardous work: Work that, by its na	ture or the circumstances in which it is carried out, is likely to harm the health, safety or mor Criterion 6.3 Forced, bonded or co	als of workers (e.g., heavy lifting disproportionate to a person's body size, operating heavy m	achinery, expos	sure to toxic chemicals).	
		Complian	nce Criteria			
		 a. Contracts are clearly stated and understood by employees. Contracts do not lead to workers being indebted (i.e. no 'pay to work' schemes through labor contractors or training credit programs). 	Contracts do not lead to workers being indebted. Separate contracts for crediting of higher education could be signed with specific conditions for working in company after the education.			
	Indicator: Number of incidences of forced, [113]	b. Employees are free to leave workplace and manage their own time. Confirmed by interview.	Confirmed by interview.			
6.3.1	bonded [114] or compulsory labor	c. Employer does not withhold employee's original identity documents.	No cases identified	Compliant		
	Requirement: None Applicability: All	d. Employer does not withhold any part of workers' salaries, benefits, property or documents in order to oblige them to continue working for employer.	No cases identified	,		
	Spinosinty. 7si	e. Employees are not to be obligated to stay in job to repay debt.	No cases identified.			
		f. Maintain payroll records and be advised that workers will be interviewed to confirm the above.	Payroll records are available. The interviews has confirmed above information.			
Footnote	[113] Forced (Compulsory) labor: All work or service that	is extracted from any person under the menace of any penalty for which a person has not of	 ffered himself/herself voluntarily or for which such work or service is demanded as a repayme	ent of debt. "Pe	nalty" can imply monetar	y sanction
Footnote		physical punishment, or the loss of rights and privileges or restric [114] Bonded labor: When a person is forced by the employer or cn				
		Criterion 6.4 Discriminatio				
Footnote	[115] Discrimination: Any distinction, exclusion or prefe	!	every distinction, exclusion or preference constitutes discrimination. For instance, a merit- or	performance-b	ased pay increase or bon	us is not b
		a. Employer has written anti-discrimination policy in place, stating that the company does				
	Indicator: Evidence of comprehensive [116] and proactive anti-discrimination policies, procedures and practices Requirement: Yes	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.		Minor	Interview with	
6.4.1		Whistle blowing procedure in place (ID13447 revision 2018).	management. Training documents and missing evidences of non-			
		c. Employer respects the principle of equal pay for equal work and equal access to job opportunities, promotions and raises.	The tariff agreement is the base of equal pay, it is applied to all employees.		discrimination training.	
		d. All managers and supervisors receive training on diversity and non-discrimination. All personnel receive non-discrimination training. Internal or external training acceptable if proven effective.				
Footnote	[116] Employers shall have written anti-discrimination	on policies stating that the company does not engage in or support discrimination in hiring, re orientation, union membership, political affiliation, age or a	In a property of the condition that may give size to discrimination or retirement based on race, caste, representations of the condition that may give size to discrimination.	ational origin,	religion, disability, gender	, sexual
	Indicator: Number of incidences of discrimination	Employer maintains a record of all discrimination complaints. These records do not show evidence for discrimination.	 			
6.4.2	Requirement: None Applicability: All	b. Be advised that worker testimonies will be used to confirm that the company does not interfere with the rights of personnel to observe tenets or practices, or to meet needs related to race, caste, national origin, religion, disability, gender, sexual orientation, union membership, political affiliation or any other condition that may give rise to discrimination.				
		Criterion 6.5 Work environment he	ealth and safety nce Criteria			
	Indicator: Percentage of workers trained in health and	a. Employer has documented practices, procedures (including emergency response procedures) and policies to protect employees from workplace hazards and to minimize risk of accident or injury. The information shall be available to employees.	The H&S procedures are in place. The site level Safety Job Analysis is applied prior to		Missing documents.	
6.5.1	safety practices, procedures [117] and policies on a yearly basis	b. Employees know and understand emergency response procedures. NC evidence: Interview with management and employees revealed limited know emergency procedures.		Minor	Interview with management and employees revealed	
	Requirement: 100% Applicability: All	c. Employer conducts health and safety training for all employees on a regular basis (once a year and immediately for all new employees), including training on potential hazards and risk minimization, Occupational Safety and Health (OSH) and effective use of PPE.	Regular external and internal trainings are conducted.		limited knowledge of emergency procedures.	
Footnote		[117] Health and safety training shall include em	ergency response procedures and practices.			
		a. Employer maintains a list of all health and safety hazards (e.g. chemicals).	The list of H&S hazards is maintained together with list of H&S risks.			
	Indicator: Evidence that workers use Personal Protective Equipment (PPE) effectively	b. Employer provides workers with PPE that is appropriate to known health and safety hazards.	All needed PPE is provided.			
6.5.2	Requirement: Yes Applicability: All	c. Employees receive annual training in the proper use of PPE (see 6.5.1c). For workers who participated in the initial training(s) previously an annual refreshment training may suffice, unless new PPE has been put to use.				
		d. Be advised that workers will be interviewed to confirm the above.	The interviews has confirmed above information.			
	Indicator: Presence of a health and safety risk assessment and evidence of preventive actions taken	Employer makes regular assessments of hazards and risks in the workplace. Risk assessments are reviewed and updated at least annually (see also 6.5.1a).	The risk assessment is conducted in register of H&S hazards. As well risks are discussed during SJA (safe job analysis) discussions prior to any hazardous activities event like splitting, de-licing, harvesting etc. NC evidence: The risk records in Landax system. Missing other documents/records of risk evaluation.		The risk records in Landax system. Missing	
6.5.3	Requirement: Yes Applicability: All	b. Employees are trained in how to identify and prevent known hazards and risks (see also 6.5.1c).	Annual general training is applied for all employees by site managers. The Safety Job Analysis is applied prior to each hazardous work.	Minor	other documents/records of risk evaluation.	
		c. Health and safety procedures are adapted based on results from risk assessments (above) The procedures are adapted in relation to risk assessment and H&S accidents inversand changes are implemented to help prevent accidents.				
		a. Employer records all health- and safety-related accidents.	H&S accidents are reported in system database.			
	Indicator: Evidence that all health- and safety-related	b. Employer maintains complete documentation for all occupational health and safety violations and investigations.	H&S violations and investigations are reported in system database.			
		1	The state of the s		1	l .



6.5.4	accidents and violations are recorded and corrective actions are taken when necessary Requirement: Yes Applicability: All Indicator: Evidence of employer responsibility and/or proto 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	c. Employer implements corrective action plans in response to any accidents that occur. Plans are documented and they include an analysis of root cause, actions to address root cause, actions to remediate, and actions to prevent future accidents of similar nature. d. Employees working in departments where accidents have occurred can explain what analysis has been done and what steps were taken or improvements made. a. Employer maintains documentation to confirm that all personnel are provided sufficient insurance to cover costs related to occupational accidents or injuries (if not covered under national law). Equal insurance coverage must include temporary, migrant or foreign workers. Written contract of employer responsibility to cover accident costs is acceptable evidence in place of insurance. Note: If the farm outsources its diving operations to an independent company, the farm sha	Corrective action plan for accidents are developed and implemented, Root cause analysis to be applied. NC evidence: The records in management system are missing for root cause analysis results. No accidents took place at this site. Information from other sites provided via e-mail and monthly summary. Sufficient insurance is provided for all employees who has the contract with the company.	Minor	The records in management system are missing for root cause analysis results.	
6.5.6	Indicator: Evidence that all diving operations are conducted by divers who are certified Requirement: Yes Applicability: All	compliance with Indicator 6.5.6. It is the farm's responsibility to obtain copies of relevant do a. Employer keeps records of farm diving operations and a list of all personnel involved. In case an external service provider was hired, a statement that provider conformed to all relevant criteria must be made available to the auditor by this provider. b. Employer maintains evidence of diver certification (e.g. copies of certificates) for each person involved in diving operations. Divers shall be certified through an accredited national or international organization for diver certification.	The records of diving activities with the lists of personnel involved are maintained. NC evidence: No statement available. NC evidence: Copies of divers' certificates are not maintained.	Minor	No statement available. Copies of divers' certificates are not maintained.	
		Criterion 6.6 Wages Complian	s nce Criteria			
	Indicator: The necreative of workers where had a ware	a. Employer keeps documents to show the legal minimum wage in the country of operation. If there is no legal minimum wage in the country, the employer keeps documents to show the industry-standard minimum wage.	Salaries are defined in protocols of collective bargaining agreements' with TU, valid from 2016 to 2018			
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	b. Employer's records (e.g. payroll) confirm that worker's wages for a standard work week (s 48 hours) always meet or exceed the legal minimum wage. If there is no legal minimum wage, the employer's records must show how the current wage meets or exceeds industry standard. If wages are based on piece-rate or pay-per-production, the employer's records must show how workers can reasonably attain (within regular working hours) wages that meet or exceed the legal minimum wage.	Employer records confirm that salaries are paid in line with Tarif agreement for fishery sector.	Compliant		
		c. Maintain documentary evidence (e.g. payroll, timesheets, punch cards, production records, and/or utility records) and be advised that workers will be interviewed to confirm the above.				
Footnote		[118] Basic wage: The wages paid for a standar				
Footnote		[119] If there is no legal minimum wage in a country, basic w	vages must meet the industry-standard minimum wage.			
	Indicator: Evidence that the employer is working toward the payment of basic needs wage [120]	a. Proof of employer engagement with workers and their representative organizations, and the use of cost of living assessments from credible sources to assess basic needs wages. Includes review of any national basic needs wage recommendations from credible sources such as national universities or government.	Minor	No evidences of employer and worker representatives		
6.6.2	Requirement: Yes Applicability: All	b. Employer has calculated the basic needs wage for farm workers and has compared it to the basic (i.e. current) wage for their farm workers.		cooperation to assess basic needs wages. Missing basic needs wage calculation.		
		c. Employer demonstrates how they have taken steps toward paying a basic needs wage to their workers.				
Footnote	[120] Basic needs wage: A wag	e that covers the basic needs of an individual or family, including housing, food and transport	t. This concept differs from a minimum wage, which is set by law and may or may not cover the	he basic needs	of workers.	
	Indicator: Evidence of transparency in wage-setting and	a. Wages and benefits are clearly articulated to workers and documented in contracts.	The contracts refer to tariff agreement for the wage. Other support and bonuses are presented in company's intranet. The benefits are defined in job proposals for employees. NC evidence: job contracts are missing the reference to documents with defined benefits and support.			
6.6.3	rendering [121]			Minor		
	Requirement: Yes	b. The method for setting wages is clearly stated and understood by workers.	Interview confirms that method for setting wages is understood by workers.	Minor	Job contracts are missing the reference to documents with defined benefits and	
	Applicability: All	b. The method for setting wages is clearly stated and understood by workers. c. Employer renders wages and benefits in a way that is convenient for the worker (e.g. cash, check, or electronic payment methods). Workers do not have to travel to collect benefits nor do they receive promissory notes, coupons or merchandise in lieu of payment.	Interview confirms that method for setting wages is understood by workers. Payments are made into personal bank accounts.	Minor	missing the reference to documents with	
		c. Employer renders wages and benefits in a way that is convenient for the worker (e.g. cash, check, or electronic payment methods). Workers do not have to travel to collect benefits nor do they receive promissory notes, coupons or merchandise in lieu of payment. d. Be advised that workers will be interviewed to confirm the above.	Payments are made into personal bank accounts. The interviews has confirmed above information.	Minor	missing the reference to documents with defined benefits and	
Footnote		c. Employer renders wages and benefits in a way that is convenient for the worker (e.g. cash, check, or electronic payment methods). Workers do not have to travel to collect benefits nor do they receive promissory notes, coupons or merchandise in lieu of payment. d. Be advised that workers will be interviewed to confirm the above. [121] Payments shall be rendered to	Payments are made into personal bank accounts. The interviews has confirmed above information. workers in a convenient manner.	Minor	missing the reference to documents with defined benefits and	
Footnote		c. Employer renders wages and benefits in a way that is convenient for the worker (e.g. cash, check, or electronic payment methods). Workers do not have to travel to collect benefits nor do they receive promissory notes, coupons or merchandise in lieu of payment. d. Be advised that workers will be interviewed to confirm the above. [121] Payments shall be rendered to *Criterion 6.7 Contracts (labor) includii.	Payments are made into personal bank accounts. The interviews has confirmed above information. workers in a convenient manner.	Minor	missing the reference to documents with defined benefits and	
Footnote	Applicability: All	c. Employer renders wages and benefits in a way that is convenient for the worker (e.g. cash, check, or electronic payment methods). Workers do not have to travel to collect benefits nor do they receive promissory notes, coupons or merchandise in lieu of payment. d. Be advised that workers will be interviewed to confirm the above. [121] Payments shall be rendered to *Criterion 6.7 Contracts (labor) includii.	Payments are made into personal bank accounts. The interviews has confirmed above information. workers in a convenient manner. ng subcontrocting	Minor	missing the reference to documents with defined benefits and	
Footnote 6.7.1	Applicability: All	c. Employer renders wages and benefits in a way that is convenient for the worker (e.g. cash, check, or electronic payment methods). Workers do not have to travel to collect benefits nor do they receive promissory notes, coupons or merchandise in lieu of payment. d. Be advised that workers will be interviewed to confirm the above. [121] Payments shall be rendered to **Criterion 6.7 Contracts (labor) includit** **Compilian** **Compili	Payments are made into personal bank accounts. The interviews has confirmed above information. workers in a convenient manner. ng subcontracting see Criteria	Minor	missing the reference to documents with defined benefits and	
	Applicability: All lindicator: Percentage of workers who have contracts [122]	c. Employer renders wages and benefits in a way that is convenient for the worker (e.g. cash, check, or electronic payment methods). Workers do not have to travel to collect benefits nor do they receive promissory notes, coupons or merchandise in lieu of payment. d. Be advised that workers will be interviewed to confirm the above. [121] Payments shall be rendered to Criterion 6.7 Contracts (labor) includia. Compilian a. Employer maintains a record of all employment contracts. b. There is no evidence for labor-only contracting relationships or false apprenticeship	Payments are made into personal bank accounts. The interviews has confirmed above information. workers in a convenient manner. ng subcontracting co Criteria Contracts are maintained.		missing the reference to documents with defined benefits and	
	Applicability: All Indicator: Percentage of workers who have contracts [122] Requirement: 100% Applicability: All [122] Labor-only contracting relationships or false ap	c. Employer renders wages and benefits in a way that is convenient for the worker (e.g. cash, check, or electronic payment methods). Workers do not have to travel to collect benefits nor do they receive promissory notes, coupons or merchandise in lieu of payment. d. Be advised that workers will be interviewed to confirm the above. [121] Payments shall be rendered to **Criterion 6.7 Contracts (jabor) includi.** **Compilian** a. Employer maintains a record of all employment contracts. b. There is no evidence for labor-only contracting relationships or false apprenticeship schemes. c. Be advised that workers will be interviewed to confirm the above.	Payments are made into personal bank accounts. The interviews has confirmed above information. workers in a convenient manner. ag subcontracting contracts are maintained. No evidences of labour-only contracting. The interviews has confirmed above information. sto deny benefit accrual or equitable remuneration. False Apprenticeship Scheme: The practical policy arrangement: The practical policy arrangement than the practical polic	Compliant	missing the reference to documents with defined benefits and support.	p terms
6.7.1	Applicability: All Indicator: Percentage of workers who have contracts [122] Requirement: 100% Applicability: All [122] Labor-only contracting relationships or false ap	c. Employer renders wages and benefits in a way that is convenient for the worker (e.g. cash, check, or electronic payment methods). Workers do not have to travel to collect benefits nor do they receive promissory notes, coupons or merchandise in lieu of payment. d. Be advised that workers will be interviewed to confirm the above. [121] Payments shall be rendered to Criterion 6.7 Controcts (labor) including Compilian a. Employer maintains a record of all employment contracts. b. There is no evidence for labor-only contracting relationships or false apprenticeship schemes. c. Be advised that workers will be interviewed to confirm the above.	Payments are made into personal bank accounts. The interviews has confirmed above information. workers in a convenient manner. ag subcontracting contracts are maintained. No evidences of labour-only contracting. The interviews has confirmed above information. sto deny benefit accrual or equitable remuneration. False Apprenticeship Scheme: The practical policy arrangement: The practical policy arrangement than practical policy arrangement.	Compliant	missing the reference to documents with defined benefits and support.	p terms
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6.7.1 Footnote	Indicator: Percentage of workers who have contracts [122] Requirement: 100% Applicability: All [122] Labor-only contracting relationships or false ap without stipulating terms of the apprenticeship or way the contractor: Evidence of a policy to ensure social compilance of its suppliers and contractors Requirement: Yes	c. Employer renders wages and benefits in a way that is convenient for the worker (e.g. cash, check, or electronic payment methods). Workers do not have to travel to collect benefits nor do they receive promissory notes, coupons or merchandise in lieu of payment. d. Be advised that workers will be interviewed to confirm the above. [121] Payments shall be rendered to **Criterion 6.7 Contracts (labor) includi. Compilian a. Employer maintains a record of all employment contracts. b. There is no evidence for labor-only contracting relationships or false apprenticeship schemes. c. Be advised that workers will be interviewed to confirm the above. prenticeship schemes are not acceptable. This includes revolving/consecutive labor contractses under contract. It is a "false" apprenticeship if its purpose is to underpay people, avoid le employment relationship for the purpose of avoiding payment of regular wages or to employment relationship for the purpose of avoiding payment of regular wages or to the provide supplies or services (e.g. divers, cleaning, maintenance) have socially responsible practices and policies. b. Producing company has criteria for evaluating its suppliers and contractors. The company keeps a list of approved suppliers and contractors. c. Producing company keeps records of communications with suppliers and subcontractors that relate to compliance with 6.7.2. **Criterion 6.8 Conflict reso	Payments are made into personal bank accounts. The interviews has confirmed above information. workers in a convenient manner. ng subcontracting contracts are maintained. No evidences of labour-only contracting. The interviews has confirmed above information. st o deny benefit accrual or equitable remuneration. False Apprenticeship Scheme: The practic gal obligations or employ underage workers. Labor-only contracting arrangement. The practic her provision of legally required benefits, such as health and safety protections. The subcontractors evaluation procedure and related documents do not apply social accountability criteria. NC evidence: Missing documents and records, interview with management. Company has list of approved subcontractors, but social accountability criteria were not used for approval. NC evidence: Missing documents and records, Interview with management. NC evidence: Missing documents and records, Interview with management. NC evidence: Very few records of communications with suppliers and subcontractors that relate to compliance with 6.7.2 are maintained.	Compliant missing the reference to documents with defined benefits and support. where under apprenticeshig rickers without establishing a documents and records, interview with management. Very few records of communications with suppliers and subcontractors that relate to compliance with 6.7.2 are	p terms	
6.7.1 Footnote	Indicator: Percentage of workers who have contracts [122] Requirement: 100% Applicability: All [122] Labor-only contracting relationships or false ap without stipulating terms of the apprenticeship or wall indicator: Evidence of a policy to ensure social compliance of its suppliers and contractors Requirement: Yes Applicability: All	c. Employer renders wages and benefits in a way that is convenient for the worker (e.g. c.ash, check, or electronic payment methods). Workers do not have to travel to collect benefits nor do they receive promissory notes, coupons or merchandise in lieu of payment. d. Be advised that workers will be interviewed to confirm the above. [121] Payments shall be rendered to Criterion 6.7 Controcts (labor) includi Compilian a. Employer maintains a record of all employment contracts. b. There is no evidence for labor-only contracting relationships or false apprenticeship schemes. c. Be advised that workers will be interviewed to confirm the above. prenticeship schemes are not acceptable. This includes revolving/consecutive labor contracts gest under contract. It is a "false" apprenticeship if its purpose is to underpay people, avoid the employment relationship for the purpose of avoiding payment of regular wages or the employment relationship for the purpose of avoiding payment of regular wages or the employment relationship for the purpose of avoiding payment of regular wages or the employment relationship for the purpose of avoiding payment of regular wages or the employment relationship for the purpose of avoiding payment of regular wages or the employment relationship for the purpose of avoiding payment of regular wages or the employment relationship for the purpose of avoiding payment of regular wages or the employment relationship for the purpose of avoiding payment of regular wages or the employment relationship for the purpose of avoiding payment of regular wages or the employment relationship for the purpose of avoiding payment of regular wages or the employment relationship for the purpose of avoiding payment of regular wages or the employment relationship for the purpose of avoiding payment of regular wages or the employment relationship for the purpose of avoiding payment of regular wages or the employment relationship for the purpose of avoiding payment of regular wages or the employment relationship	Payments are made into personal bank accounts. The interviews has confirmed above information. workers in a convenient manner. ng subcontracting contracts are maintained. Contracts are maintained. The interviews has confirmed above information. to deny benefit accrual or equitable remuneration. False Apprenticeship Scheme: The practic particular or employ underage workers. Labor-only contracting arrangement. The practic particular or employ underage workers. Labor-only contracting arrangement. The practic provision of legally required benefits, such as health and safety protections. The subcontractors evaluation procedure and related documents do not apply social accountability criteria. NC evidence: Missing documents and records, interview with management. Company has list of approved subcontractors, but social accountability criteria were not used for approval. NC evidence: Missing documents and records, interview with management. NC evidence: Very few records of communications with suppliers and subcontractors that relate to compliance with 6.7.2 are maintained.	Compliant missing the reference to documents with defined benefits and support. where under apprenticeshig rickers without establishing a documents and records, interview with management. Very few records of communications with suppliers and subcontractors that relate to compliance with 6.7.2 are	p terms	
6.7.1 Footnote	Indicator: Percentage of workers who have contracts [122] Requirement: 100% Applicability: All [122] Labor-only contracting relationships or false ap without stipulating terms of the apprenticeship or way the contractor: Evidence of a policy to ensure social compilance of its suppliers and contractors Requirement: Yes	c. Employer renders wages and benefits in a way that is convenient for the worker (e.g. cash, check, or electronic payment methods). Workers do not have to travel to collect benefits nor do they receive promissory notes, coupons or merchandise in lieu of payment. d. Be advised that workers will be interviewed to confirm the above. [121] Payments shall be rendered to *Criterion 6.7 Contracts (labor) includi. **Compilian** a. Employer maintains a record of all employment contracts. b. There is no evidence for labor-only contracting relationships or false apprenticeship schemes. c. Be advised that workers will be interviewed to confirm the above. **prenticeship schemes are not acceptable. This includes revolving/consecutive labor contractses under contract. It is a "false" apprenticeship if its purpose is to underpay people, avoid le employment relationship for the purpose of avoiding payment of regular wages or to employment relationship for the purpose of avoiding payment of regular wages or to the provide supplies or services (e.g. divers, cleaning, maintenance) have socially responsible practices and policies. b. Producing company has criteria for evaluating its suppliers and contractors. The company keeps a list of approved suppliers and contractors. c. Producing company keeps records of communications with suppliers and subcontractors that relate to compliance with 6.7.2. **Criterion 6.8 Conflict resc.** **Complian**	Payments are made into personal bank accounts. The interviews has confirmed above information. workers in a convenient manner. ng subcontracting contracts are maintained. No evidences of labour-only contracting. The interviews has confirmed above information. sto deny benefit accrual or equitable remuneration. False Apprenticeship Scheme: The practical obligations or employ underage workers, Labor-only contracting arrangement. The practical obligations or employ underage workers, Labor-only contracting arrangement. The practic provision of legally required benefits, such as health and safety protections. The subcontractors evaluation procedure and related documents do not apply social accountability criteria. NC evidence: Missing documents and records, Interview with management. Company has list of approved subcontractors, but social accountability criteria were not used for approval. NC evidence: Missing documents and records, Interview with management. NC evidence: Missing documents and records, Interview with management. NC evidence: Wissing documents and records, Interview with management.	Compliant missing the reference to documents with defined benefits and support. writers under apprenticeship rivers without establishing: Missing documents and records, interview with management. Very few records of communications with suppliers and subcontractors that relate to conform the suppliers and subcontractors that relate to appliance with 6.7.2 are maintained.	p terms	
6.7.1 Footnote	Indicator: Percentage of workers who have contracts [122] Requirement: 100% Applicability: All [122] Labor-only contracting relationships or false ap without stipulating terms of the apprenticeship or wa without stipulating terms of the	c. Employer renders wages and benefits in a way that is convenient for the worker (e.g. cash, check, or electronic payment methods). Workers do not have to travel to collect benefits nor do they receive promissory notes, coupons or merchandise in lieu of payment. d. Be advised that workers will be interviewed to confirm the above. [121] Payments shall be rendered to **Criterion 6.7 Contracts (fabor) includi** Compilian** a. Employer maintains a record of all employment contracts. b. There is no evidence for labor-only contracting relationships or false apprenticeship schemes. c. Be advised that workers will be interviewed to confirm the above. prenticeship schemes are not acceptable. This includes revolving/consecutive labor contracts ges under contract. It is a "false" apprenticeship if its purpose is to underpay people, avoid le employment relationship for the purpose of avoiding payment of regular wages or to employment relationship for the purpose of avoiding payment of regular wages or to explore the provide supplies or services (e.g. divers, cleaning, maintenance) have socially responsible practices and policies. b. Producing company has criteria for evaluating its suppliers and contractors. The company keeps a list of approved suppliers and contractors. c. Producing company keeps records of communications with suppliers and subcontractors that relate to compiliance with 6.7.2. **Criterion 6.8 Conflict resordation policy for the presentation, treatment, and resolution of worker grievances in a confidential manner.* b. Workers are familiar with the company's labor conflict policies and procedures. There is evidence that workers have fair access.	Payments are made into personal bank accounts. The interviews has confirmed above information. workers in a convenient manner. ng subcontrocting cc Criteria Contracts are maintained. No evidences of labour-only contracting. The interviews has confirmed above information. sto deny benefit accrual or equitable remuneration. False Apprenticeship Scheme: The practic particular or employ underage workers. Labor-only contracting arrangement: The practic provision of legally required benefits, such as health and safety protections. The subcontractors evaluation procedure and related documents do not apply social accountability criteria. NC evidence: Missing documents and records, interview with management. Company has list of approved subcontractors, but social accountability criteria were not used for approval. NC evidence: Missing documents and records, interview with management. NC evidence: Missing documents and records, interview with management. NC evidence: Missing documents and records, interview with management. NC evidence: Missing documents and records, interview with management. NC evidence: Missing documents and records, interview with management. NC evidence: Missing documents and records, interview with management. NC evidence: Missing documents and records, interview of the management of the providence of the prov	Compliant missing the reference to documents with defined benefits and support. where under apprenticeshig richers without establishing a documents and records, interview with management. Very few records of communications with suppliers and subcontractors that relate to compliance with 6.7.2 are maintained. The whistle blowing policy is not fully developed to provide conflict resolution in a light policy is not fully developed to provide conflict resolution in a	p terms	
6.7.1 Footnote	Indicator: Percentage of workers who have contracts [122] Requirement: 100% Applicability: All [122] Labor-only contracting relationships or false ap without stipulating terms of the apprenticeship or wa without stipulating terms of the apprenticeship or wa lindicator: Evidence of a policy to ensure social compliance of its suppliers and contractors Requirement: Yes Applicability: All Indicator: Evidence of worker access to effective, fair and confidential grievance procedures	c. Employer renders wages and benefits in a way that is convenient for the worker (e.g. cash, check, or electronic payment methods). Workers do not have to travel to collect benefits nor do they receive promissory notes, coupons or merchandise in lieu of payment. d. Be advised that workers will be interviewed to confirm the above. [121] Payments shall be rendered to Criterion 6.7 Contracts (labor) includi. Compilian a. Employer maintains a record of all employment contracts. b. There is no evidence for labor-only contracting relationships or false apprenticeship schemes. c. Be advised that workers will be interviewed to confirm the above. Prenticeship schemes are not acceptable. This includes revolving/consecutive labor contractses under contract. It is a "false" apprenticeship if its purpose is to underpay people, avoid le employment relationship for the purpose of avoiding payment of regular wages or to employment relationship for the purpose of avoiding payment of regular wages or to provide supplies or services (e.g. divers, cleaning, maintenance) have socially responsible practices and policies. b. Producing company has criteria for evaluating its suppliers and contractors. The company keeps a list of approved suppliers and contractors. c. Producing company keeps records of communications with suppliers and subcontractors that relate to compliance with 6.7.2. Criterion 6.8 Conflict reso Compiliar essolution policy for the presentation, treatment, and resolution of worker grievances in a confidential manner. b. Workers are familiar with the company's labor conflict policies and procedures. There is	Payments are made into personal bank accounts. The interviews has confirmed above information. workers in a convenient manner. ng subcontrocting cc Criteria Contracts are maintained. No evidences of labour-only contracting. The interviews has confirmed above information. sto deny benefit accrual or equitable remuneration. False Apprenticeship Scheme: The practic particular or employ underage workers. Labor-only contracting arrangement: The practic provision of legally required benefits, such as health and safety protections. The subcontractors evaluation procedure and related documents do not apply social accountability criteria. NC evidence: Missing documents and records, interview with management. Company has list of approved subcontractors, but social accountability criteria were not used for approval. NC evidence: Missing documents and records, interview with management. NC evidence: Missing documents and records, interview with management. NC evidence: Missing documents and records, interview with management. NC evidence: Missing documents and records, interview with management. NC evidence: Missing documents and records, interview with management. NC evidence: Missing documents and records, interview with management. NC evidence: Missing documents and records, interview of the management of the providence of the prov	Compliant Loc of hiring wor Minor	missing the reference to documents with defined benefits and support. where under apprenticeship rivers without establishing in the support of communications with support of communications with supplies and subcontractors that relate to compliance with 6.7.2 are maintained. The whistle blowing policy is not fully developed to provide develop	p terms



				r i		1			
6.8.2		 Employer keeps a record of follow-up (i.e. corrective actions) and timeframe in which grievances are addressed. 	No records, as were no cases.	N/A	No records, as were no cases.				
	Applicability: All	 Maintain documentary evidence and be advised that workers will be interviewed to confirm that grievances are addressed within a 90-day timeframe. 	No records, as were no cases. Interview confirms no cases fact.						
Footnote		[123] Addressed: Acknowledged and received, moving through the compa Criterion 6.9 Disciplinary pr							
		Complian	ce criteria						
	Indicator: Incidences of excessive or abusive disciplinary actions	 Employer does not use threatening, humiliating or punishing disciplinary practices that negatively impact a worker's physical and mental health or dignity. 	No evidences of incorrect behaviour.						
6.9.1		 b. Allegations of corporeal punishment, mental abuse [124], physical coercion, or verbal abuse will be investigated by auditors. 	No cases identified.	Compliant					
	Applicability: All	c. Be advised that workers will be interviewed to confirm there is no evidence for excessive or abusive disciplinary actions.	The interviews has confirmed above information.	,					
Footnote		[124] Mental Abuse: Characterized by the intentional use of power, including verbal ab	use, isolation, sexual or racial harassment, intimidation or threat of physical force.						
6.9.2		Employer has written policy for disciplinary action which explicitly states that its aim is to improve the worker [125].	The disciplinary actions are defined in Working rules of the company.	Compliant					
		 Maintain documentary evidence (e.g. worker evaluation reports) and be advised that workers will be interviewed to confirm that the disciplinary action policy is fair and effective. 	The interviews has confirmed fair and effective disciplinary policy.	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; disn arbitrarily. Fines or basic wage deductions shal	Il not be acceptable disciplinary practices.	ns are clearly s	tated and understood, ar	nd not used			
		Criterion 6.10 Working hours an Complian	nd overtime ce criteria						
		Note: Working hours, night work and rest periods for workers in agriculture should be in acc Health in Agriculture Convention, 2001). Additional information can be found on the website							
	Indicator: Incidences, violations or abuse of working hours and overtime laws [126]	a. Employer has documentation showing the legal requirements for working hours and overtime in the region where the farm operates. If local legislation allows workers to exceed internationally accepted recommendations (48 regular hours, 12 hours overtime) then requirements of the international standards apply.	ertime in the region where the farm operates. If local legislation allows workers to ceed internationally accepted recommendations (48 regular hours, 12 hours overtime) The working time schemes are approved in Tariff agreement with Trade unions. In line with 6.10.1 c) The scheme of 7 days on-job and 7 days-off is used with 10 hours of working day post including lunch least.						
6.10.1		b. Records (e.g. time sheets and payroll) show that farm workers do not exceed the number of working hours allowed under the law.	The working time is managed within legal requirements.	Compliant					
		c. If an employer requires employees to work shifts at the farm (e.g. 10 days on and six days off), the employer compensates workers with an equivalent time off in the calendar month and there is evidence that employees have agreed to this schedule (e.g. in the hiring contract).	The scheme 7 by 7 is used with 10 hours of working day. The working time and off-time are balanced. The work in shifts is defined in job contracts.	_					
		d. Be advised that workers will be interviewed to confirm there is no abuse of working hours and overtime laws.	The interviews has confirmed above information.						
Footnote		cases where local legislation on working hours and overtime exceed internationally accepted	recommendations (48 regular hours, 12 hours overtime), the international standards will ap	oly.					
	Indicator: Overtime is limited, voluntary [127], paid at a premium rate [128] and restricted to exceptional	Payment records (e.g. payslips) show that workers are paid a premium rate for overtime hours.	Overtime is paid at premium rate.						
6.10.2	circumstances Requirement: Yes	records (e.g. production records, time sheets, and other records of working hours). Overtime is managed within labour law rememt: Yes							
	Applicability: All except as noted in [130]	except where there is a collective bargaining agreement which specifically allows for compulsory overtime.	The interviews has confirmed voluntary overtime, the special cases agreed in collective bargaining agreement.						
Footnote		[127] Compulsory overtime is permitted if previously a [128] Premium rate: A rate of pay higher than the regular work week rate. N							
Footnote		Criterion 6.11 Education and	training						
	performs training of staff in fish husbandry, general farm and fish escape management and health and safety	Compilian a. Company has written policies related to continuing education of workers. Company provides incentives (e.g. subsidies for tuition or textbooks, time off prior to exams, flexibility in work schedule) that encourage workers to participate in educational initiatives. Note that such offers may be contingent on workers committing to stay with the company for a pre-arranged time.							
6.11.1	Requirement: Yes	b. Employer maintains records of worker participation in educational opportunities as evidenced by course documentation (e.g. list of courses, curricula, certificates, degrees).	Records available in HR IT system.	Compliant					
	Applicability: All	c. Be advised that workers will be interviewed to confirm that educational initiatives are encouraged and supported by the company. The interviews has confirmed education encouraging by managers.							
		Criterion 6.12 Corporate policies for so							
		Complian a. Company-level policies are in line with all social and labor requirements presented in 6.1	ce criteria Company level policies in place.						
	Indicator: Demonstration of company-level [129] policies in line with the standards under 6.1 to 6.11	through 6.11. b. Company-level policies (see 6.12.1a) are approved by the company headquarters in the	Approved.						
6.12.1	above	region where the site applying for certification is located. c. The scope of corporate policies (see 6.12.1a) covers all company operations relating to salmonid production in the region (i.e. all smolt production facilities, grow-out facilities and		Compliant					
	Applicability: All	processing plants). I d. The site that is applying for certification provides auditors with access to all company-							
Footnote		level policies and procedures as are needed to verify compliance with 6.12.1a (above). mpany in a region or country where the site applying for certification is located. The policy sh		olt production a	nd processing facilities				
	, pp	Social requirements in the standards shall be audited by an individual who is a le		,	, , , , , , , , , , , , , , , , , , , ,				
PRINCIPLE 7:	BE A GOOD NEIGHBOR AND CONSCIENTIOUS CITIZEN	Criterion 7.1 Community eng							
		Complian							
		a. The farm pro-actively arranges for consultations with the local community at least twice every year (bi-annually). b. Consultations are meaningful. OPTIONAL: the farm may choose to use participatory	NC evidence: Only invitation was sent to interested parties on 2018-01-24.						
	Indicator: Evidence of regular and meaningful [130] consultation and engagement with community	Social Impact Assessment (pSIA) or an equivalent method for consultations. c. Consultations include participation by representatives from the local community who	NC evidence: No information available		Only invitation was sent to interested parties on				
7.1.1	•	sentatives and organizations C. Consultations include participation by representatives from the local community who were asked to contribute to the agenda. Invitation is asking for contribution to agenda.							
	Applicability: All	therapeutic treatments (see Indicator 7.1.3). e. Maintain records and documentary evidence (e.g. meeting agenda, minutes, report) to	NC evidence: no other documents available. Meeting agenda is available.		available. Missing documents.				
		demonstrate that consultations comply with the above. f. Be advised that representatives from the local community and organizations may be	NC evidence: missing documents. No interview were used with stakeholders.						
		interviewed to confirm the above.)ceacemant	thade may be an a set	to coreli			
Footnote	ן אפgular and meaningtul: Meetings shall be held at l	least bi-annually with elected representatives of affected communities. The agenda for the m here.	n part de set by the community representatives. Participatory Social Impact المنافقة المنافق	ssessment mel	mous may be one option	co conside			
	Indicator: Presence and evidence of an effective [131]	Farm policy provides a mechanism for presentation, treatment and resolution of complaints lodged by stakeholders, community members, and organizations.	Complaint handling procedure is developed for internal issues. NC evidence: missing documents						
7.1.2	policy and mechanism for the presentation, treatment and resolution of complaints by community stakeholders	 b. The farm follows its policy for handling stakeholder complaints as evidenced by farm documentation (e.g. follow-up communications with stakeholders, reports to stakeholder describing corrective actions). 	No complains received.	Minor	Missing documents.				
	Requirement: Yes Applicability: All	c. The farm's mechanism for handling complaints is effective based on resolution of stakeholder complaints (e.g. follow-up correspondence from stakeholders).	No complains received.						
		 d. Be advised that representatives from the local community, including complainants where applicable, may be interviewed to confirm the above. 	No interview were used with stakeholders						



Footnote		[131] Effective: In order to demonstrate that the mechanism is e	ffective, evidence of resolutions of complaints can be given.					
	Indicator: Evidence that the farm has posted visible notice [132] at the farm during times of therapeutic	a. Farm has a system for posting notifications at the farm during periods of therapeutic treatment. (use of aneastatic baths is not regarded a therapeutant)	Company has system for posting the notifications at the sites during the therapeutic treatments.					
	treatments and has, as part of consultation with communities under 7.1.1, communicated about potential health risks from treatments	b. Notices (above) are posted where they will be visible to affected stakeholders (e.g. posted on waterways for fishermen who pass by the farm).	Minor	No consultation meeting. See NC in 7.1.1				
	Requirement: Yes	c. Farm communicates about the potential health risks from treatments during community consultations (see 7.1.1)	The health risks were not communicated during consultation meetings. NC evidence: No consultation meeting. See NC in 7.1.1		8			
	Applicability: All	d. Be advised that members of the local community may be interviewed to confirm the above. [132] Signage shall be visible to mariners and, for	No interview were used with stakeholders					
Footnote		Criterion 7.2 Respect for indigenous and aboriginal c	ultures and traditional territories					
territorial bou	indaries of indigenous groups have a defined legal status a	Instruction to Clients and CABs on Criterion 7.2 - Traditi traditional territories of indigenous groups. The Indicators listed under Criterion 7.2 were de according to local or national law. In such cases, it is straightforward to know whether a farm simple way to establish whether the farm is operating in close proximity to ind entify all neighbouring groups who are potentially negatively impacted by the farm's activitie	signed to fulfil this purpose in a manner consistent with the United Nations Declaration on the is operating in close proximity to indigenous people. However, when boundaries of indigeno igenous groups. Here ASC provides the following guidance. 5. The actual physical distance between the farm and an indigenous group is less important the arent process of consultation, indigenous groups who are put under "stress" by the farm will arent process of consultation, indigenous groups who are put under "stress" by the farm will arent process of consultation, indigenous groups who are put under "stress" by the farm will arent process of consultation, indigenous groups who are put under "stress" by the farm will arent process of consultation, indigenous groups who are put under "stress" by the farm will arent process of consultation, indigenous groups who are put under "stress" by the farm will are the process of consultation are the process of the pro	us territories a	re undefined or unknown,	there is no aving a		
		Documentary evidence establishes that the farm does or does not operate in an indigenous territory (to include farms that operate in proximity to indigenous or aboriginal people [133]). If not then the requirements of 7.2.1 do not apply.	The application to have permission to operate covered identification of indigenous groups. No such groups present in neighbourhood.					
7.2.1 Ro	Indicator: Evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations	b. Farm management demonstrates an understanding of relevant local and/or national laws and regulations that pertain to consultations with indigenous groups.	The national/local laws and regulations are known.		No traditional and			
	Requirement: Yes Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133]	c. As required by law in the jurisdiction: - farm consults with indigenous groups and retains documentary evidence (e.g. meeting minutes, summaries) to show how the process compiles with 7.2.1b; OR - farm confirms that government-to-government consultation occurred and obtains documentary evidence.	mplies with 7.2.1b; No traditional and indigenous groups are involved in the vicinity of the farm.					
		d. Be advised that representatives from indigenous groups may be interviewed to confirm the above.						
	Indicator: Evidence that the farm has undertaken proactive consultation with indigenous communities Requirement: Yes [133]	a. See results of 7.2.1a (above) to determine whether the requirements of 7.2.2 apply to the farm.	N/A	No traditional and				
	Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133]	b. Be advised that representatives from indigenous communities may be interviewed to confirm that the farm has undertaken proactive consultations.	No traditional and indigenous groups are involved.	. IVA	indigenous groups are involved.			
Footnote		[133] All standards related to indigenous rights only apply whe	re relevant, based on proximity of indigenous territories.					
		a. See results of 7.2.1a (above) to determine whether the requirements of 7.2.3 apply to the farm.	No specific protocol agreement is developed, as no interest from indigenous community expressed.					
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	b. Maintain evidence to show that the farm has either: 1) reached a protocol agreement with the indigenous community and this fact is documented; or 2) continued engagement in an active process [134] to reach a protocol agreement with the indigenous community.	No specific protocol agreement is developed, as no interest from indigenous community expressed.	N/A	No specific protocol agreement is developed, as no interest from indigenous community expressed.			
	people [133]	c. Be advised that representatives from indigenous communities may be interviewed to confirm either 7.2.3b1 or b2 (above) as applicable. No traditional and indigenous groups were interviewed, as certification relaprocess include local Sami groups.						
Footnote	[134] To demonstrate an active process, a farm	n must show ongoing efforts to communicate with indigenous communities, an understanding	g of key community concerns and responsiveness to key community concerns through adapt	ive farm mana	gement and other actions.			
		Criterion 7.3 Access to res Complian	ources ce Criteria					
	ladiester. Changes undertaken sessisisting assess to vital	a. Resources that are vital [135] to the community have been documented and are known by the farm (i.e. through the assessment process required under Indicator 7.3.2).	The resources are assessed and communicated with community during the operation licence application processing.					
7.3.1	Indicator: Changes undertaken restricting access to vital community resources [335] without community approval Requirement: None Applicability: All	b. The farm seeks and obtains community approval before undertaking changes that restrict access to vital community resources. Approvals are documented.	The resources are assessed and communicated with community during the operation licence application processing. Any changes, having influence to resources, during operation undergo hearing process prior to their implementation.	Compliant				
		 Be advised that representatives from the community may be interviewed to confirm that the farm has not restricted access to vital resources without prior community approval. 	No interview were used with stakeholders					
Footnote	[135] Vital community resources can include freshwate	er, land or other natural resources that communities rely on for their livelihood. If a farm site standar	were to block, for example, a community's sole access point to a needed freshwater resource d.	e, this would be	unacceptable under the	Dialogue		
732	Indicator: Evidence of assessments of company's impact on access to resources Requirement: Yes	a. There is a documented assessment of the farm's impact upon access to resources. Can be completed as part of community consultations under 7.1.1.	The resources are assessed and communicated with community during the operation licence application processing. Any changes, having influence to resources, during operation undergo hearing process prior to their implementation.	Compliant				
	Applicability: All	b. Be advised that representatives from the community may be interviewed to generally corroborate the accuracy of conclusions presented in 7.3.2a.						
A farm seeki	ing certification must have documentation from all of its s	INDICATORS AND STANDARDS FOR SA molt suppliers to demonstrate compliance with the following standards. The requirements a	IOLT PRODUCTION re, in general, a subset of the standards in Principles 1 through 7, focusing on the impacts tha	t are most rele	vant for smolt facilities. In	addition,		

[136] The SAD SC proposes this approach to addressing environmental and social performance during the smolt phase of production. In the medium term, the SC anticipates a system to audit smolt production facilities on site. In the meantime, farms will need to work with their smolt suppliers to generate the necessary documentation to demonstrate compliance with the standards. The documentation will be reviewed as part of the audit at the grow-out facility.



11.5 Add new rows as needed 11.6 Adjust the column wide as needed - to show the whole text

NC				grading, status, closure deadline, etc.)	Date of				T	Deadline for Evaluation by CAS	Date request		Next R	equest evaluation	Date request
reference	2.1.1	Grade of NC Minor	MOM-C not performed at peak biomass (at	ASC survey by AquaKompetanse November 2017	detection 09.02.2018	Status	Related VR (#)	Root cause (by client) ASC Standard requires ASC MOM C done at top production (>75% top biomass) from	Corrective/ preventive actions implemented All 5 farms are scheduled to have ASC MOM C tests under max production. These	NC close-out (including evidence) SA1 Jan Petter Kosmo	for delay received	sustification for delay	deadline	by CAB	approved
			7-756 peak bonnes) lar production cycle. Relative pointenil art attainne oorteide AEE not vill. AGC 4-42	[Bidd work 37.11.2007], report 392-11-37C				protoco production cycle for conflictions. Since the decision to conflict on including (Scholappe, financing skeep, Financing skeep) are state and the few out of the first made as such has now! had to production. ACK MOM Cs using the 40M. for the made as such has now! had to production. ACK MOM Cs using the 40M variance request verse makes and 1.5 First size for and 0.30T2 has resulted in non- compliance as result ent few forms had achieved top blombus as it has the under incompliance compliance and the first size forms and 0.30T2 has resulted in non- compliance as size of the form had achieved top blombus as it has the first size of the first siz	Intits are invalved professor from Augus Accompations (provisionmental stelling company), the accompany of the company of the	13.03.7018 Boot Concretive and Concretive and Concretive and Concretive and Concretive Accepted actions					
IA-2018-2	2.1.2	Minor		ASC survey by AquaKompetanse November 2017 (field work 17.11.2017), report 292-11-17C	09.02.2018	Open		ASC Standard requires ASC MOMI C done at top production (>75% top biomass) from previous production cycle for certification. Since the decision to certify our locations	tests are already ardered from Anya Kompetance (amicromoutal testing company)	SA1 Jan Petter Kosmo 13.03.2018: Root					
				KALVHYILA				Sockside, historys, Bukley, King up Calhafylig vis stake a better the end of the production cycles these inserpections of the count production of the time inserpection for the count production. And is seen in a state of the count of the co	done to that reports are flowled by the end of 2016/just of 2019 in compliance with BNVQUE following Contribution of these stars. Contribution of these stars. Contribution of these stars. Contribution of these stars. Contributions of the stars of the contribution of	cause, corrective and preventilve actions Accepted					
IA-2018-3		Minor	Not seen testing on farm of feed (percentage of fines). Seen test results from supplier Skretting with all samples below 1% fines in feed.		09.02.2018			means that the first sample results were not comletely ready ready for reporting during the audit.	can be reviewed in the attached file (dok id 14746 Resultat Støv og Knus). Internal dev nr.: A2746. (3 attachements).	SA1 Jan Petter Kosmo 13.03.2018: Closed					
IA-2018-4	4.3.2	Minor		List of fish products used as feed ingredients in "2017 marine raw material mass balance calculation Stretting Norwey' Blow whiting (NA Edunici) MSC certified, Herring, Mackerel, Norway Pout, Sandeel, Sardine, Sprat, Peruvian Anchoveta, Capelin (localandic).	09.02.2018	Closed		Client does not agree that Spart calculations are necessary since this raw material is not longer in use by the feed supplier and is lister non-compilant.	Updated list of mass balance calculations is attached. Internal dev nr A2750. [1 attachement).	SA1 Jan Petter Kosmo 13.03.2018: Closed					
IA-2018-5	4.4.3	Minor	Not seen confirmation that the farm has informed ASC whether feeds containing transgenic ingredients are use on farm.	Missing documents.	09.02.2018	Closed		Client was not aware that this information should have been sent to ASC pre-audit.	Confirmation on non-transgenic ingredients is sent to ASC [05.03.2018], CAB was copied on the e-mail. Internal dev nr.: A2751. [3 attachements].	SA1 Jan Petter Kosmo 13.03.2018: Closed					
IA-2018-6	4.6.2	Minor	Not seen annual GHG assessment.	Missing document.	09.02.2018	Closed		Since Kalvhylla has not had any previous full production cycles, data on GHG was not prepared for the audit.	t GHG data is attrached for Kalvhylla 17g in 2017. Internal dev. nr.: A2794. (1 attachement).	SA1 Jan Petter Kosmo 13.03.2018: Closed					
IA-2018-7	4.7.1	Major	Not seen farm policy and practice not allowing heavy cleaning for copper-treated nets in situ.	Missing documents.	09.02.2018	Closed		Since this is initial ASC audit use and cleaning of copper-treated nets has not been forbidden. Copper-treatement has only been used on smolt nets to aviode cleaning	Preventive: Undated the procedure: "Vackehåt" (Cleaning hoat) From 2018 there	08.05.2018 Jan Petter Kosmo 13.03.2018: Closed					
IA-2018-8								and because of lack of cleaning boats.	will not be used kopper-treated nets for smolt. The cleaning capacity will be increased with one more boat in juni 2018. Internal deviation no. AZ752. (1 attachement).						
		Minor	>75% peak biomass) last production cycle.	AGC survey by Aquakimpetraries November 2017 (field user). 17.11.2017), resport 292-21-17C EALYWILA	09.02.2018			pervious production cycle for certification. Since the decision to certify our lectionic (Ciolosiages, Reseapes, Masky, Respage quildry) was taken after the end of the last production cycles this was impossible to de. Allow, Early Mark as farting permitted in consideration cycles this was impossible to de. Allow, Early Mark as farting permitted was considered to the consideration of the consideration consideration and the consideration of the form that the consideration consideration as none of the forms that achieved top biomass at the time of testing. Planning on which Them should be certified with CR chould be taken up of the consideration production, the beat time the less of taken to be desired. This will allow the production.	with DWIGKs follow up ASC certification of these 5 Earns. Continue long term planning of ASC certification so that environmental sating on the critical out at top blomass at the end of the previous generation. Internal deviation no. A2744.	13.03.2018: ROBO cause, corrective and preventive actions Accepted					
IA-2018-9	5.2.2	Minor	Not seen list of antibiotics and treatments that are banned in any of the primary salmon producing or importing countries.	Missing documentation.	09.02.2018	Closed		This is a new requirement through the ASC standard and we did therefore not had this documentation on the initial audit.	Corrective: Designing procedure ID14826 "Forbudte legemidler og stoffer i animalsk varer: Preventive: Regulary review of the procedure. Internal deviation no. A2753. (1 attachement).	SA1 Jan Petter Kosmo 13.03.2018: Closed					
IA-2018-10	6.1.1	Minor	representative to have access to TU members in the workplace at reasonable times on the	In interview TU representative states, that he has insufficient information about activities in HR (hiring, dismissing, discrimination handling,	09.02.2018	Open		TU representative is elected by the employees. Nova Sea has not seen it necessary to have agreements on how the TU representative job should be carried out.	representatives and the management where the aim is to set conditions for how the TU representatives work should be carried out.	SA1 Darius Pamakstys 11.03.2018: Root cause, corrective and					
IA-2018-11	6.2.2	Minor	workers at certified farms for social questions in principle 6.	conflict/grievance solving etc.) to do good service for workers. The time for meeting and communicating the workers is not opporty allocated, as no dedicated procedure for replacing TU representative at his direct job is defined.	09.02.2018	Open		Apprentice follow the shift like the other workers at site. The shift work conflict:	Preventive: The agreement mentioned above. Internal deviation no. A2754. Corrective: The working day for young workers should end after 8 hours.	proventive actions Accepted Darius Pamakstys					
IA-2018-12	CA1	Minor	and overtime work. The non-discrimination training was not	Interview with management. Training documents	09.02.2018	Clared		with the Working Environment Act regarding personel under 18 years. Inadequate knowledge of the WEA. No focus on this issue and lack of resources.	Preventive: Update document (IDE4P), attachment to job contract for workers under 19 years. Working time for young workers are stated in the text. The site manager is responsible for the young workers working time and that this not exceet the time stated in the Working Environment Act. Internal deviation no. A2795. (1 attachment). Corrective: Non-discrimination course has now been performed at the site.	11.03.2018: Root cause, corrective and preventive actions Accepted SA1 Darius Pamakstys					
			specifically provided for managers and employees.	and missing evidences of non-discrimination training.					coordinated with safety inspection. Certificate of the training is stored at the site an in the IRR-department. Preventive: Non-discrimination training will be a part of the annually health and safety training. Internal deviation no. A2755. (2 attachements).	11.03.2018: Closed					
IA-2018-13				Interview with management and employees revealed limited knowledge of emergency procedures.	09.02.2018			Not enough awareness of local adjustment, as alarm and emergency telephone numbers are nationwide. Low priority of safety drifts at site.	Corrective Plan for local safety training at site at 11.04.18. Evaluation of the training and correction/guiziment of site peoplic emergency legisle. The Preventive: Annual training will be stipulated in the health and safety plan for each year. Internal deviation no. A2757.	SA1 Darius Pamakstys 11.03.2018: Root cause, corrective and preventive actions Accepted					
IA-2018-14			incomplete, and do not cover main risks of the work at the site.		09.02.2018			on place at the site during MBS risk assessment in 2017. The planned risk assessments was cancelled because of other audits from the authorities. Lack of time.	Corrective: HBS risk assessments conducted. Preventive: Plan for HBS risk assessments for 2018. Internal deviation no. A2758. (2 attachements).	SA1 Darius Pamakstys 11.03.2018: Root cause, corrective and preventive actions Accepted					
IA-2018-15			conformances.	The records in management system are missing for root cause analysis results.				The quality management system has not had root cause analysis as an option.	Corrective: A guide for how to perform a root cause analysis was sent to all workers in Nova Sea at 260.21088. Preventive: During the non-conformances meetings at industry and seaperduction the focus will be on the root cause analysis. The qualify department are leading this meetings. Internal deviation no. A2759. (2 attachements).	11.03.2018: Root cause, corrective and preventive actions Accepted					
IA-2018-16		Minor	certificates available.	No statement available. Copies of divers' certificates are not maintained. No evidences of employer and worker	09.02.2018			This is a new requirement through the ASC standard and we did therefore not had this documentation on the initial audit. The emoloses are covered by a tariff agreement that ensures that wases are above.	Preventive: Updating of procedure "Use of diving services", including that the site managers should control the divers certificat before diving at the site. Internal deviation no. A2760. (2 attachements).	SA1 Darius Pamakstys 11.03.2018: Root cause, corrective and preventive actions Accepted SA1 Darius Pamakstys					
				representatives cooperation to assess basic needs wages. Missing: basic needs wage calculation.				basic needs wage. Nova Sea has not considered this calculations as necessary.	representative, and signed. Preventive: The validity of the calculations is set to 2 years and will then be revised. Internal deviation no. A2761. (1 attachement).	11.03.2018: Root cause, corrective and preventive actions Accepted					
IA-2018-18			benefits and support applied.	Job contracts are missing the reference to documents with defined benefits and support.	09.02.2018			Nova Sea has not thought on this before, it is an improvement of the contract.	Corrective: Update of contracts for employees. Preventive: Update of the contract template for future appointments. Internal deviation no. A2762 (1 attachement).	SA1 Darius Pamakstys 11.03.2018: Root cause, corrective and preventive actions Accepted					
IA-2018-19		Minor	contracted to provide supplies or services have socially reportable practices and policies. The ortens for evaluation of suppliers and contractors against social accombability principles are not clearly defined to set threshold requirements for supplier and contractor to be approved.	stating documents and records, interview with management. Why the records of communications with suppliers and subcontractors that relate to compliance with 6.7.2 are maintained.	09.02.2018			This is a new requirement through the AC standard and we did therefore not had this documentation on the initial audit.	Preventive: We define subcontractors a supplier of services that is in contact with order. We will prefer so suited of all subcontractors answally which will include on the contractors are supplied to the supplier of the services of the services given by the subcontractor and thereby approve or not agreed to the subcontractor and thereby approve or not approve the subcontractor and thereby approve or not approve the subcontractor. All contracts given the provided the supplier to the All contracts applied to the supplier form where they agree that they have all contracts are supplied to the supplier form where they agree that they have four fifthy areases. They for to this question, internal deviation no. A2761. [3]	SA1 Darius Parmaktys 11.03.2018: Root cause, corrective and preventive actions Accepted					
IA-2018-20		Minor	grievances are not stated in the procedure of whistle blowing.	The whistle blowing policy is not fully developed to provide conflict resolution in a confidential manner.	09.02.2018			This was missing in our system.	Corrective: Update of the procedure for whistle blowing. Preventive: Keep the procedure updated. Internal deviation A2764. (1 attachement)	SA1 Darius Pamaisstys 11.03.2018: Root cause, corrective and preventive actions Accepted					
IA-2018-21	7.1.1	Minor	took place.	Only included was seen to interested parties on 2014-0-7-12 Contraction was seen to interested parties on 2014-0-7-12 Contraction available. Adding discoverence.	09.02.2018	Öpen		at large around farms and smolt facilities are held bi-annually. At the time of inspection by DNV/GL in 2018 meetings had been planned and invitations were sent out to the local interest eround but no meetines had been held. This resulted in non-	In this was immunificationing on our part. With thought that the mentings had to be indicated, that care careful only the filling of install inspection. We were under the justiments from our interpretation of the standard that these mentings dish's real part of the properties of the standard that the sentencing dish's real part of the properties of the standard and set high vederated the inno-complication on this openit. Agendas were proviously sent on to all the interest propose but a new agendas whe les entire with an all daily glaimed for reviews \$13 years but a real part of the propose but a real part of the propose of the country of the propose of the p	11.03.2018: Root					



IA-2018-22	7.1.2	Minor	The procedure is developed for presentation, treatment and resolution of complaints lodged by stakeholders is not defined.	Missing documents.	09.02.2018	Open	certification, and were principally concerned with application processes when	Corrective: Procedum "Sehanding av Mager fra interessigningen" (Battachel) has been created to include concrete information about the process by which complaints will be handled at Nova Sea. Preventive: Keep the procedure updated. Internal deviation no. 2767, (1 attachement).		Darius Pamakstys 11.03.2018: Root cause, corrective and preventive actions Accepted		
IA-2018-23	7.1.3		No consultation meetings with local community tools place.	No consultation meeting. See NC in 7.1.1	09.02.2018	Open	at large around farms and smolt forlikes are held to accountly for the time of impraction (by MyClin (bull meeting had been given and seen impraction were part out to the best part of the seen and the seen and the seen and the seen around	to be held until later in the year. We now know after having met with DNV/GL that	SA1	Darius Pennastry L 10.3.2018. Root cause, corrective and preventive actions Accepted		
IA-2018-24	8.1	Minor	Sundsfjord Smolt: Discharge permit states cleansing, but they have no cleansing.	Sundsfjord Smolt: Interview with management.	09.02.2018	Open	Challengs with the system for cleaning of discharge water.	Corrective: Written agreement with the supplier LS-Optics and a new system is expected to be delivered in May 2018. Preventive: A system that is working, Internal deviation no. A2772. (1 attachement).	SA1	Jan Petter Kosmo 13.03.2018: Root cause, corrective and preventive actions Accepted		
IA-2018-25	8.20	Minor	No consultation meetings with local community took place.	No meetings organized. Interview with management. Missing documents.	09.02.2018	Open	Did not know that this meetings should be carried out before the initial audit.	Corrective: Should be carried out in cooperation with Nova Saa in week 18 2018. Preventive: Carried out on a regular basis. Internal deviation no. A2774.	SA1	Darius Pamakstys 11.03.2018: Root cause, corrective and preventive actions Accepted		
IA-2018-26	8.23	Minor	No consultation meetings with local community took place.	No meetings organized. See NC in 8.20	09.02.2018	Open	Did not know that this meetings should be carried out before the initial audit.	Corrective: Should be carried out in cooperation with Nova Sea in week 18 2018. Preventive: Carried out on a regular basis, internal deviation no. A2774.	SA1	Darius Pamakstys 11.03.2018: Root cause, corrective and preventive actions Accepted		
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ASC Audit Report - Traceability

10	Traceability Factor	Describe any traceability, segregation, or other systems in place to manage the risk.
	The possibility of mixing or substitution of certified and non-certified product, including product of the same or similar appearance or species, produced within the same operation.	No risk of substitution of certified with non- certified product within the unit of certification as all salmon in the farm is within the scope of the ASC Salmon Standard audit.
	The possibility of mixing or substitution of certified and non-certified product, including product of the same or similar appearance or species, present during production, harvest, transport, storage, or processing activities.	No risk of substitution of certified with non- certified product within the unit of certification as all salmon in the farm is within the scope of the ASC Salmon Standard audit. Transports are always identifiable on production unit level (cage). Only transport from one seasite to the slaughterhouse at the time.
10.3	The possibility of subcontractors being used to handle, transport, store, or process certified products.	Wellboat services are subcontracted. Approved wellboat companies are used during transhipments of salmon between the site and holding cages/harvest plant. Biosecurity legislation and implemented QMS management system and procedures at the site and within the company prevent the wellboats from visiting other salmon farms/sites in the same assignment. The possibility for mixture of salmon in holding cages from salmon from other farm/sites is also prevented by biosecurity legislation and implemented QMS management system and procedures at the site and within the harvesting/processing plant used. There are slaughtered fish from only one holding cage at a time in the harvest/processing plant Transports are always identifiable on production unit level (cage). All information is kept in electronic system FishTalk and in hard copies.
	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.

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

The company has a robust and well implemented quality system, which covers the whole organization from smolts to sales.

All stages of fish live cycle within the scope of this certification standard are traceable. Documents describe a satisfactory control with incoming products, from freshwater sites and external suppliers, and corresponding documentation of production sites and suppliers. Digital information is handled in FishTalk/Landax for on-growing phase in seawater and from freshwater stage.



10.6 Traceability 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

Yes

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.

10.6.3 The point from which chain of custody is

required to begin.

Products are authorized to enter an ASC Chain of Custody certification at the point where the fish is moved from the wellboat/live fish carrier and delivered direct to the harvest/processing plant. From this point the ASC Salmon Standard certificate stops and the ASC CoC certificate takes over.

The harvest plants is in process of ASC CoC certification (ref. to www.asc-aqua.org where updated information can be found):

Nova Sea AS, certificate code ASC-C-01705.

10.6.4 Is a separate chain of custody certificate

required for the producer?

No, not for the unit of certification.



ASC Audit Report - Closing

12 Evaluation Results

12.1 A report of the results of the audit of the the standard and guidance documents.

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

The principles where full compliance was found: 1 and 3.

For the rest of the principles, 2, 4, 5, 6, 7 and 8, full compliance was not found, although most of these were mainly compliant.

The audit hence resulted in 25 Minor category Non-Conformities and 1 Major category Non-Conformities. Reference is made to ASC Farm certification and Accreditation Requirement 17.4.2 and 17.4.3. As the fish were not at harvest size during the audit, harvest was not overseen by the auditor. Harvest is performed by the company. 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 nr. 97 approved 20.08.2015 by ASC for calculation of PTI based on biomass. VR nr. 98 approved 20.08.2015 by ASC for calculation of PTI based on number of pens treated. If necessary stakeholders can get in touch with DNVGL and we can translate necessary information.

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).

It is expected that the site has the capability to consistently meet the objectives of the ASC Salmon Standard for the future. At this draft report stage the unit of certification has 25 Minor NCs and 1 Major NCs. The closing of Major NSs and closing or relevant corrective actions plan for Minor NCs has to be approved before certification is granted. Final certification decision will be taken in final report after completion of stakeholder period. The site may be considered compliant and recommended certified only after satisfactory closure of Major non-conformances and closure or a corrective action plan for Minor non-conformances is implemented by the client and approved by DNV GL.

123 In cases where Biodiversity Environmental Impact Assessment (BEIA) or Participatory Social Impact Assessment (PSIA) is available, it shall be added in full to the audit report. IF these documents are not in English, then a synopsis in English shall be added to the report as well.

Not applicable.

13 Decision



13.1 Has a certificate been issued? (yes/no)

No, this is the draft report stage.

Not yet compliant. May be considered compliant and recommended certified only after satisfactory closure of Major non-conformances and closure or a corrective action plan for Minor non-conformances is implemented by the client and approved by DNV GL.

- Final certification decision will be taken in final report after completion of stakeholder period.
- Until final certification decision by DNV GL the applicant is NOT yet certified and can not claim ASC Aquaculture certification status.
- 13.2 The Eligibility Date (if applicable)

The Eligibility Date will be the date of certification if/when certification is granted. Final certification decision will be taken in final report after completion of stakeholder period.

13,3 Is a separate CoC certificate required for the producer? (yes/no)

No, not for the unit of certification.

- 13.4 If a certificate has been issued this
- 13.4.1 The date of issue and date of expiry of the certificate.

13.4.2 The scope of the certificate

Final certification decision will be taken in final report

Production of Atlantic salmon (Salmo salar).

2019 - Specific date not decided at this stage.

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

Stakeholders can contact DNV GL and/or Lead Auditor as specified in report section I Audit report opening, contact information is also available in notifications received as stakeholder from DNV GL. Information and documents related to contacting or complaints to DNV GL is available at www.dnvgl.com

14 Surveillance

14.1 Next planned Surveillance

14.1.1 Planned date

14.1.2 Planned site

14.2 Next audit type

14.2.1 Surveillance 1

14.2.2 Surveillance 2

14.2.3 Re-certification

14.2.4 Other (specify type)

Kalvhylla			

SA1 - 2019		



ASC – Aquaculture Stewardship Council Request for interpretation or variance

I CAB Request

1.1 NAME OF CAB	1.2 DATE OF SUBMISSION	1.3 CAB CONTACT PERSON	1.4 EMAIL ADDRESS OF CAB CONTACT PERSON
DNV GL - Business Assurance	05.09.2014	Kim-Andre Karlsen / Guro Meldre Pedersen	kim.andre.karlsen@dnvgl.com guro.meldre.pedersen@dnvgl.com

1.5 ASC DOCUMENT REFERENCE

ASC Salmon Standard Version 1.0 June 2012.

Principle 8, Criterion 8.4 Maximum total amount of phosphorus.

1.6 BACKGROUND (PROVIDE FULL EXPLANATION OF THE ISSUE)

Requirement 8.4 of the ASC salmon standard sets a limit to how much phosphorus is discharged from the farm per unit smolt produced. The requirement is set at 5 kg/mt for the first three years from date of publication of the ASC Salmon Standard, dropping to 4 kg/mt thereafter. This requirement falls under section 8 (Requirements for smolt production) that contains the full suite of principles, criteria, indicators and requirements for responsible salmon farming at freshwater smolt sites. Under the rationale for the development of this requirement it is stated that nutrient discharge into the freshwater environment is one topic of concern when evaluating the impacts of smolt production. Phosphorus is used as a reference for water quality in the freshwater environment.

8.4 Maximum total amount of phosphorus released into the environment per metric ton (mt) of fish produced over a 12-month period (see Appendix VIII-1)

5 kg/mt of fish produced over a 12-month period; within three years of publication of the ASC Salmon Standard, 4 kg/mt of fish produced over a 12-month period

Several sites across Norway have been audited according to the ASC salmon standard. Compliance with requirement 8.4 has not been possible and minor NC has been identified as P levels in wastewater are above the limit of 5 kg/mt. In this VR we argue that such limit should be applicable only when wastewater from smolt facilities is discharged into a freshwater environment but not when wastewater is discharged directly into a marine environment which is the case of smolt facilities in Norway. Phosphorus has been clearly identified as a key growth-limiting nutrient in freshwater environment (Schindler 1977, OECD 1982) and therefore limiting its release into freshwater is an important action to limit eutrophication. The responses of freshwater environments to nutrient enrichment are well documented for most regions in the world allowing the possibility to set limits to phosphorus release. However, knowledge on marine coastal eutrophication is limited and the controls of eutrophication in freshwater and coastal marine ecosystems have been recognized as different (Smith, 2003). In fact, in coastal marine environments, nitrogen (N) has been recognized as the major cause of eutrophication (Howarth and Marino, 2006).

As noted on page 23 of the ASC salmon standard the SAD technical group has recognized that the effects of nutrient loading into costal environments still need to be established and therefore no specific limits on N or P release into the marine environment have been set: "The SAD technical working group on nutrient loading identified the potential link between nutrients around salmon farms and harmful algal blooms as one that had yet to be established but around which there remained some uncertainty and for which there was an intuitive concern around the effect of the cumulative anthropogenic nutrient load into coastal waters. The group noted a shortage of field studies to validate hypotheses from lab-based work."

Howarth RW and Marino R (2006). Nitrogen as the limiting nutrient for eutrophication in coastal marine ecosystems: evolving views over three decades. Limnol. Oceanogr., 51, 364–376

OECD (1982): Eutrophication of waters: Monitoring, assessment and control. Organisation for Economic and Cooperative Development, Paris, France

Schindler DW (1977): Evolution of phosphorus limitation in lakes. Science 195, 260-262



ASC – Aquaculture Stewardship Council Request for interpretation or variance

1.7 RECOMMENDED ACTION / DECISION

DNV GL recommends that ASC approves this VR request for the upcoming ASC Audit at Marine Harvest Site Skipningsdalen 22.09 - 26.09.2014 in Norway, and to apply the limits set under requirement 8.4 to smolt facilities that discharge wastewater into freshwater only.

II ASC Determination

2.1 STATUS 2.2 Date of the ASC Determination	
[X] Closed	15 September 2014
2.3 ASC DETERMINATION ON VARIANCE REQUEST	

Approved

2.4 ASC INTERPRETATION

Although the ASC has a different view on the availability of studies on the subject, we do agree with the fact that in the current version of the ASC Salmon standard discharging in a marine environment is not addressed in a binding manner.

FYI: The ASC Standards will be reviewed periodically (at a minimum once per 5 years) and the criteria/requirement for this issue may change.



FORM 1 - Request for Interpretation or Variance - ASC

This form is for the submission of requests by CABs to the ASC to request interpretations of the ASC normative requirements and/or requests for variance from specific normative requirements.

I - CAB Request

1.1 Name of CAB	1.2 Date of Submission	1.3 CAB Contact Person	1.4 Email Address of CAB Contact Person
Food Certification Scotland International	17/07/15	Matthew James	Matthew.James@acoura.com

1.5 ASC Document Reference

Criteria 5.2.5

Indicator: Maximum farm level cumulative parasiticide treatment index (PTI) score as calculated according to the formula in Appendix VII

Requirement: PTI score ≤ 13

Indicator Compliance Criteria

1.6 Background (Provide full explanation of the issue)

The PTI score is aimed at reducing the amount of sealice medication used on a site in order to keep well within safe limits that will not harm the environment and sensitive wild species.

With reference to the in-feed therapeutant emamectin benzoate (EMBZ), within the Scottish regulatory framework, SEPA have modelled a Maximum Treatment Quantity (MTQ) allowed within a 7 day period for each site. This defines a single treatment of a whole site at maximum standing biomass using a standard recommended dose of EMBZ.

Therefore if 1x MTQ represents a single standard dose of a whole site at full biomass, it follows that an amount of product used to treat a site at half biomass should count 50% of this, and a simple ratio of Treatment Quantity (TQ): MTQ should be used to determine a fraction of a treatment. This encourages farms to use Slice at times when the biomass on a site is lower, and therefore discharge less therapeutant into the environment.

Calculation Example from real treatment data: Slice used shortly after smolt input with a TQ of 12% of MTQ and again later in the cycle with a TQ of 23% of MTQ and for a 3rd time at 88% of MTQ. Total amount of EMBZ discharged = 1.0766kg

Proposed PTI calculation:

 $4 \times 0.8 \times 1 \times 1 \times 0.12 = 0.384$

 $4 \times 0.8 \times 2 \times 1 \times 0.23 = 1.472$

 $4 \times 0.8 \times 2 \times 1 \times 0.88 = 5.2$

Total = 7.056

This is far more desirable than using the product in the second half of the cycle when the farm will already consistently be at maximum biomass and a full MTQ amount will be used on each occasion, discharging 2.625kg of EMBZ during the cycle, more than double the amount in the example above.

PTI calculation:

 $4 \times 0.8 \times 1 \times 1 \times 1 = 3.2$

 $4 \times 0.8 \times 2 \times 1 \times 1 = 6.4$

 $4 \times 0.8 \times 2 \times 1 \times 1 = 6.4$

Total = 16





Therefore using a fraction of the PTI element for each treatment at lower biomasses encourages more efficient use of the product. It is also well known that good sealice control is required especially at the outset of a cycle to prevent a significant population of sealice from gaining momentum. Slice is certainly most effective when used to prevent a settlement from becoming established in the first place and the PTI scoring should reward a farm for using the product early and penalise a farm for using it later.

1.7 Recommended Action/Decision

To use TQ:MTQ to determine a fraction of a Slice (EMBZ) treatment and apply this fraction in determining the overall PTI score.

II - ASC Determination

2.1 Status	2.2 Date of the ASC Determination
	20/08/2015

2.3 ASC Determination of Variance Request

The ASC committee agrees to approve the VR therefore ASC grants the VR.

2.4 ASC Interpretation

This is an innovative approach for the sea lice management and we support that ASC standards should help to encourage innovation to solve problems. Therefore under the condition of publicizing this fact (more than just the requirement to have the VR on our website), we approve this VR. We have already asked the farm to allow us to make their findings public in one of our public updates thus encouraging other farms to follow their example.

(Two documents regarding the sea lice management were received from Marine Harvest Scotland (by Catarina) on 20/08/2015 - Saved under the farm file)



FORM 1 - Request for Interpretation or Variance - ASC

This form is for the submission of requests by CABs to the ASC to request interpretations of the ASC normative requirements and/or requests for variance from specific normative requirements.

I - CAB Request

1.1 Name of CAB	1.2 Date of Submission	1.3 CAB Contact Person	1.4 Email Address of CAB Contact Person
Food Certification Scotland International	17/07/15	Matthew James	Matthew.James@acoura.com

1.5 ASC Document Reference

Criteria 5.2.5

Indicator: Maximum farm level cumulative parasiticide treatment index (PTI) score as calculated according to the formula in Appendix VII

Requirement: PTI score ≤ 13

Indicator Compliance Criteria

1.6 Background (Provide full explanation of the issue)

In assessing the sealice population on a farm, MHS now assesses each pen as an epidemiological unit, rather than averaging the site sealice count as a whole. Every pen is assessed by counting and staging the lice on twenty fish per pen every week. Previously only five pens where used to determine the average for the site as a whole. Using data with this finer resolution has allowed a far more acute response to emerging hotspots of sealice build-up on a farm. Strategic treatments are still carried out across the whole farm but it follows that individual pens with a sealice build-up can be targeted especially with bath treatments.

The PTI score is aimed at reducing the amount of sealice medication used on a site in order to keep well within safe limits that will not harm the environment and sensitive wild species.

We propose that the PTI scoring system should adequately reflect this far more prudent and targeted use of therapeutant.

Firstly we suggest that as individual pens are treated they each count as a fraction of a full treatment. Calculation example:

Week 10: 1 pen out of 10 is treated.

Week 12: 3 pens out of 10 are treated.

Week 18: 5 pens out of 10 are treated.

During this time 90% of the pens have had a treatment so this represents 90% of a single site treatment.

PTI assuming deltamethrin: $6 \times 0.8 \times 1 \times 1 \times 90\% = 4.32$

Secondly the example about assumes that no single pen has been treated more than once. We propose that Component 3: the Resistance Factor should only be advanced from a factor of 1 to a factor of 2 when a single pen receives its second treatment within a 12 month period. It could then be argued that the lice population of that unit has now received a second dose of the same product and selection pressure for resistant genes will have intensified.





Calculation Example continuing from above:

Week 24: 2 pens out of 10 are treated, 1 of which is receiving its first treatment and the other being treated with the same product for the second time:

PTI assuming deltamethrin:

 $6 \times 0.8 \times 1 \times 1 \times 10\% = 0.48$

 $6 \times 0.8 \times 2 \times 1 \times 10\% = 0.96$

Total PTI: = 1.44

It is well understood that single pen treatments per se, do not promote the development of resistance to therapeutant. Leaving pens with lower lice counts untreated preserves a refugium of naïve genes within a site and ensures that the overall resistance status of the sealice on a site will not intensify to the same degree as it would if the whole site were treated, thereby wiping out all sealice that carry the sensitive genes.

1.7 Recommended Action/Decision

When bath treating individual pens: To calculate PTI scores for individual pens to represent their fraction of the site as a whole and to apply resistant factor of 2 only when an individual pen receives more than 1 treatment in a 12 month period.

II - ASC Determination

2.1 Status	2.2 Date of the ASC Determination
⊠ Closed	20/08/2015

2.3 ASC Determination of Variance Request

The ASC committee agrees to approve the VR therefore ASC grants the VR.

2.4 ASC Interpretation

This is an innovative approach for the sea lice management and we support that ASC standards should help to encourage innovation to solve problems. Therefore under the condition of publicizing this fact (more than just the requirement to have the VR on our website), we approve this VR. We have already asked the farm to allow us to make their findings public in one of our public updates thus encouraging other farms to follow their example.

(Two documents regarding sea lice management were received from Marine Harvest Scotland (by Catarina) on 20/08/2015 - Saved under the farm file)





ASC – Aquaculture Stewardship Council Request for interpretation or variance

I CAB Request

1.1 NAME OF	1.2 DATE OF	1.3 CAB CONTACT	1.4 EMAIL ADDRESS OF
CAB	SUBMISSION	PERSON	CAB CONTACT PERSON
DNV GL	8. April 2016	Kim Andre	Kim.Andre.Karlsen@dnvgl.com
Business		Karlsen	Guro.Meldre.Pedersen@dnvgl.com
Assurance		 Guro Meldre 	Sander.Buijs@dnvgl.com
Norway AS		Pedersen	
		 Sander Buijs 	

1.5 ASC DOCUMENT REFERENCE

ASC Farm Certification and Accreditation Requirements v1

Annex C – Aquaculture Audit Report Requirements

C2: Audit and surveillance reports shall be written in English and in the most common language spoken in the areas where the aquaculture operation is located.

ASC Farm Certification and Accreditation Requirements v2

Annex C – Aquaculture Audit Report Requirements

C1. Audit reports shall be written in English and in the most common language spoken in the areas where the operation is located.

Audit notification: 17.2.4.2 The notice shall be in the local language(s) and English.

1.6 BACKGROUND (PROVIDE FULL EXPLANATION OF THE ISSUE)

The translation of audit reports is a significant cost to the ASC farm certification process and implementation of CAR v2 should take a pragmatic approach adapted to the stakeholders' normal language competences in the area where the candidate site for ASC farm certification is situated.

With the transfer to ASC CAR v2, DNV GL will implement the standard audit report template as required. The general public competence in the English language is high in Scandinavia. DNV GL therefore seeks a variation to the above ASC CAR paragraphs for audits conducted at operations located in Scandinavia to:

- Allow the Audit report in its entirety to be published only in the English version.
- Allow the Audit notification to be published only in the English version.

This variation should not in any way jeopardize the integrity of the ASC programme or the access for stakeholders to relevant information. Any requests from stakeholders to make details of information available in the local language will be fulfilled.

Experience with other schemes including extended stakeholder involvement and broader public engagement than ASC farm, such as MSC Fisheries, has demonstrated that publishing of reports in only the English language has not been an obstacle to stakeholder dialogue or comments.

1.7 Recommended action / decision

DNV GL recommends a variation to the above ASC CAR clauses to allow Audit notifications and Audit reports for audits at operations located in Scandinavia to be published only in English.



ASC – Aquaculture Stewardship Council Request for interpretation or variance

II ASC Determination

2.1 STATUS	2.2 DATE OF THE ASC DETERMINATION	
X□Closed	24/08/2016	
2.3 ASC DETERMINATION ON VARIANCE REQUEST		
This VR is approved.		

2.4 ASC INTERPRETATION

It is a key requirement under the ASC Certification and Accreditation Requirements v1.0 and v2.0 to have audit reports available in both English and the local language.

Given the fact that all Scandinavian countries (Sweden, Denmark, Norway) are rated as "very high" (resp. position 1,3,4) in the English Proficiency Index (http://www.ef.nl/epi/) it can safely be assumed that English understanding is sufficient in order to understand the content of an ASC audit report. Based on this, this VR is approved.