Form 3 - Public Disclosure Form

Public Disclosure Form Name of CAB DNV GL **Date of Submission** 24/04/2018 **CAB Contact Person** Name of Contact Person Paul Casburn Position in the CAB's-organisation Lead Auditor Mailing address Veritasveien 1, 1363 Høvik, Norway Email address paul.casburn@dnvgl.com Phone number 00353 87 1864429 Other N/A **ASC Name of Client** Name of Company Marine Harvest Canada Inc. Name of Contact Person Katherine Dolmage Position in the client's organisation Certification Manager Mailing address 124-1334 Island Hwy, Campbell River, B, V9W 8C9, Canada Email address $\underline{kather ine.dolmage@marineharvest.com}$ Phone number 250-850-3276 ex. 7228 Other N/A

Unit of Certification

Single Site Multi-site

Group certification

X

Sites to be audited

Site Name	GPS Coordinates	Other Location Information	Planned Site Audit(s)	Date of planned audit
Wanx talis (Heath Bay)	50 53.587 N: 127 53.748 W	NA	June 4th to 8th 2018	June 4th to 8th 2018

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 Salmon Standard	Version 1.1

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

Planned Stakeholder Consultation(s) and How Stakeholders can Become Involved				
Name/organisation Relevance for this audit		How to involve this stakeholder (in-person/phone interview/input submission)	When stakeholder may be contacted	How this stakeholder will be contacted
Pacific Salmon Foundation	Conservation	Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
Ducks Unlimited	Conservation	Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
David Suzuki Foundation	Conservation	Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
Living Oceans Society	Conservation	Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
Coast Forestry Products Association Forestry		Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
Canadian Pacific Sustainable Fisheries Society Fisheries		Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
Vancouver Island North Tourism	Tourism		Before audit and when draft report is published.	written notifications by e- mail.
James Walkus Fishing Company Company Contractors/Suppliers		Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
Flurers Smokery Contractors/Suppliers		Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
Skretting Contractors/Suppliers		Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
Noboco Contractors/Suppliers		Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
BC Centre for Aquatic Health Sciences Research		Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
BC Salmon Farmers Industry Association		Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.

Canadian Aquaculture Industry Association	· Industry re		Before audit and when draft report is published.	written notifications by e- mail.
United Steelworkers	Industry	Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
Tlatlasikwala	First Nations	Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
Heiltsuk	First Nations	Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
Port Hardy Council	Government	Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
Campbell River Council	Government	Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
Sayward Town Council	Government	Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.
Regional District of Mt Waddington	Government	Written notifications with request for submissions and if needed telephone contact.	Before audit and when draft report is published.	written notifications by e- mail.

Proposed Timeline

Proposed Timeline	
Contract Signed:	
Start of audit:	June 4th
Onsite Audit(s):	June 4th to 8th 2018
Determination/Decision:	Certified

Audit Team

Addit Fedin			
Title	Name	ASC Registration Reference	
Lead Auditor	Paul Casburn	N/A	
Social Auditor	Leon Reed	N/A	



ASC Audit Report - Opening

General Requirements

- C1 Audit reports shall be written in English and in the most common language spoken in the areas where the operation is located.
- **C2** Audit reports may contain confidential annexes for commercially sensitive information.
 - **C2.1** The CAB shall agree the content of any commercially sensitive information with the applicant, which can still be accessible by the ASC and the appointed accreditation body upon request as stipulated in the certification contract.
 - **C2.2** The public report shall contain a clear overview of the items which are in the confidential annexes.
 - **C2.3** Except for the annexes that contain commercially sensitive information all audit reports will be public.
- C3 The CAB is solely responsible for the content of all reports, including the content of any confidential annexes.
- C4 Reporting Deadlines for certification and re-certification audit reports (in working day)
 - **C4.1** Within thirty (30) days of the completing of the audit the CAB shall submit a draft report in English and the national or most common language spoken in the area where the operation is located.
 - C4.2 Within five (5) days the ASC should post the draft report to the ASC website.
 - C4.3 The CAB shall allow stakeholders and interested parties to comment on the report for fifteen (15) days.
 - **C4.4** Within twenty (20) days of the close of comments, the CAB shall submit the final report to the ASC in English and the national or most common language spoken in the area where the operation is located.
 - C4.5 Within five (5) days the ASC should post the final report to the ASC website.
 - **C4.6** Audit reports shall contain accurate and reproducable results.

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

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

1 Title Page

1.1 Name of Applicant	Marine Harvest Canada



1.2 Report Title [e.g. Public Draft Certification Report/ Final certification report/Surveillance report]	Initial audit for the site called Heath Bay (Wanx talis)
1.3 CAB name	DNV GL.
1.4 Name of Lead Auditor	Paul Casburn
1.5 Names and positions of report authors and reviewers	Paul Casburn and Leon Reed.
1.6 Client's Contact person: Name and Title	Katherine Dolmage, Certification manager.
1.7 Date	9th June 2018
2 Table of Contents	
2 Table of Contents	
3 Glossary	
Terms and abbreviations that are specific to this audit report and that are not otherwise defined in the ASC glossary	GMO = Genetically modified Organism. ISA=Infectious salmonic anemia. PRV=Piscine rheovirus. BKD = Bacterial Kidney disease. DFO = Department of fisheries and Oceans. BAP = Best Aquaculture practice. PAR = Pacific Aquaculture regulation. DATS = Digital Action Tracking system. HDPE = High density polyethelene.



4 Summary

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

4.1	A brief description of the scope of the audit (including activities of the UoC being audited)	The Scope is under the ASC salmon standard V1.1 and CAR V2.1 of the site called Heath Bay located in the Port Hardy area of British Columbia Canada. The Scope includes all farming related activities of the farm site evaluating the Environmental and Social compliance of the farm site to the standard. The related managment systems are also within the Scope of Audit.		
4.2	A brief description of the operations of the unit of certification	Farming of Atlantic salmon from smolt t	to harvest size.	
4.3	Type of unit of certification (select only one type of unit of certification in the list)	Single site		
4.4	Type of audit (select all the types of audit that apply in the list)	Initial		
4.4.1	Number of sites included in the unit			
	of certification	Owned by client	Subcontracted by client	
	Initial audit - 06/2018 Surveillance audit 1 - mm/ yyyy Surveillance audit 2 - mm/ yyyy	1	0	
	Recertification audit - mm/ yyyy			



4.5 A summary of the major findings

2.1.3: "The Macrofaunal results for Heath Bay are not yet available as the results are being analysed and therefore cannot be reviewed for compliance with the standard at this time. There is no historical data for this site.

6.5.1: "The operations team training on DATS was as low as 12 percent for some workers and supervisors. It was noted that a lot of health and safety training was not completed or had expired.

There is no formal process/ management system to show how health safety findings are managed and closed out.

Noted on Site tour

- Mort box on the crew boat has ropes installed which are used for lifting
- Compressor cover has been removed and not replaced
- Generator room door is left open due to ventilation problems
- Life raft service expired, and the rope to deploy was not connected "

6.10.1: The shift patterns for the Operations team exceed internationally accepted recommendations. The shift with the highest number of consecutive working days is 24 days on 18 off. (The daily working hours are contracted at 10 hours per day)

6.10.2: "The review of the working hours found;

- Operations workers are working more than 16 hours per day on a regular basis
- The highest number of working hours in one day was 19 hours.
- Rest periods are between shifts are as low as 5 hours
- 24 days continuous shift patterns are being used with excessive overtime "



	4.6	The Audit determination	The Audit determination at final report stage: Compliant.
			Corrective/Preventive action plan and corrective/preventive actions for closing or acceptance of
			Major and Minor Non conformities are presented and approved by DNV GL.
			• Final certification decision taken and the site is certified and can claim ASC Aquaculture
			certification status. Decision taken December 6th 2018.
5 CAB C		nformation	
	5.1	CAB Name	DNV GL
	5.2	CAB Mailing Address	Veritasveien 1, 1363 Høvik, Norway
	F 2	- 1A.I.	
	5.3	Email Address	OSL.Certification.ASCfarm@dnvgl.com
	5.4	Other Contact Information	NA
	5.4	Other Contact Information	NA .
6 Backg	round o	n the Applicant	
6.1		nation on the Public Disclosure Form	Υ
	(Form	3) except 1.2-1.3. All information	
		ed as necessary to reflect the audit as	
	condu	cted.	



6.2	-	8 x 120m plastic pen circles with nets 20m deep on the walls. There is a service feeding barge
	intial audit) / changes, if any (for surveillance	where the feeding of all the cages is centraly located. The site has the facility number 7054 and is
	and recertification audits)	located at coordinates 50 53.587 N: 127 53.748 W
6.3	Other certifications currently held by the	GAA BAP.
	unit of certification	
6.4	Other certification(s) obtained by the UoC	GAA BAP.
	before this audit	
		AUT C 0 T
6.5	Estimated annual production volumes of	3156.2 mT
	the unit of certification of the <u>curren</u> t year	
	A study amount many disable as value as a fitting	n/a
6.6	<u>Actual</u> annual production volumes of the unit of certification of the <u>previous</u> year	Пуа
	(mandatory for surveillance and recertification	
6.7	Production system(s) employed within the	Marine Pens
0.7	unit of certification (select one or more in the	Marine Pens
	list)	
6.8	Number of employees working at the unit	6
0.0	of certification (see notes in comment to this cell)	
	,	
6.9	Size, and/or number of ponds, pens (if	8 x 120m plastic pen circles with nets 20m deep on the walls.
	multi site, per site)	
7 Scope		
7.1	() 3	ASC Salmon V1.1
	was conducted, including version number	



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

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

The Scope includes all farming related activities of the farm site evaluating the Environmental including a description of whether the unit and Social compliance of the farm site to the standard. The related management systems are also within the Scope of Audit. All the pens harvested are covered by the Scope.

7.4 The names and addresses of any storage, processing, or distribution sites included in the operation (including subcontracted operations) that will potentially be handling BC VON 2P0 certified products, up until the point where product enters further chain of custody.

Marine Harvest Canada have a processing unit in Port Hardy and this is where all the salmon from this site will be primarily processed, packed and sent to customers for onward distribution to the markets. Marine Harvest Canada, Port Hardy processing unit, 7200 Coho Rd, Port Hardy,

7.5 Description of the receiving water body(ies).

The site is located in the Port Hardy area of Canada on the North Eastern side of Vancouver Island.

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.

Paul Casburn, Lead auditor Leon Reed, Social auditor

Kim-Andre Karlsen, Technical reviewer

Audit was finished 08/06/18

Draft report was finished 10/07/18

Technical Review of draft report was finished 24/07/18

Draft submitted to ASC 26/07/18

Final report was finished 25/11/18

Technical Review of final report was finished 05.12.2018

Certification decision was taken 06.12.2018

8.2 Previous Audits (if applicable):

Closing deadline - status - closing

8.2.1 Initial audit - 06/2018 Surveillance audit 1 - mm/ yyyy Surveillance audit 2 - mm/ yyyy

Recertification audit - mm/ yyyy

Unannounced audit - mm/ yyyy

NC close-out audit - mm/ yyyyy

Scope extention audit mm/ yyyy

Standard clause reference	date of each NC

Audit plan as implemented including: 8.3

8.3.1 Desk Reviews

Dates	Loca	ations	
	May-18	Auditors offices	



8.3.2	Onsite audits		
		4th to 8th June 2018	Offices in Campbell river and the Site.
8.3.3	Stakeholder interviews and Community meetings		None requested.
8.3.4	Draft report sent to client	11th June 2018	Campbell river
8.3.5	Draft report sent to ASC	26th July 2018	
8.3.6	Final report sent to Client and ASC	7th December 2018	



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

Port Hardy Council

Campbell River Council

Sayward Town Council

Port McNeill Council

Port Alice Council

Regional District of Mt Waddington

Tlowitsis First Nation

Mamalilikulla-Qwe'Qwa'Sot'Em First Nation

Kwicksutaineuk-ah-kwaw-ah-mish First Nation

Quatsino First Nation

Tlatlasikwala First Nation

Heiltsuk First Nation

Pacific Salmon Foundation

Ducks Unlimited

David Suzuki Foundation

Living Oceans Society

Coast Forestry Products Association

Canadian Pacific Sustainable Fisheries Society

Vancouver Island North Tourism

James Walkus Fishing Company

Flurers Smokery

Skretting

Noboco

BC Centre for Aquatic Health Sciences

BC Salmon Farmers Association

Canadian Aquaculture Industry Association

United Steelworkers

Katherine Dolmage, Certification Manager, Marine Harvest Canada.

Blaine Tremblay, Health and Safety Manager, Marine Harvest Canada.

Renee Hamel, Certification assistant, Marine Harvest Canada.

Mykolas Kamaitis, Veterinarian, Marine Harvest Canada

Mike Dodds, Community relations manager, Marine Harvest Canada.

Brett Stricker, Site Manager, Marine Harvest Canada.

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



Name of stakeholder (if permission given to make name public)	Relevance to be contacted	Date of contact	CAB responded Yes/No	Brief summary of points Raised	Use of comment
Ŭ	Declared as a Stakeholder in the area of sustainable seafood.	23/08/2018	Yes. Mailed response to the Stakeholder on the 26th August 2018.	Farm eligibility and maturity of cycle.	Full detailed response to each indicator and amendments to audit report where necessary.
				Audit failed to follow 17.3 of the CAR for the following indicatiors: 2.1.1, 2.1.2 and 2.1.3. Benthic indicators	Full detailed response to each indicator and amendments to audit report where necessary
				Indicators 2.2.3 and 2.2.4 Coastal or regional water targets	Full detailed response to each indicator and amendments to audit report where necessary



		scheme	Full detailed response to each indicator and amendments to audit report where necessary.
		research into non native species being farmed.	Full detailed response to each indicator and amendments to audit report where necessary.

I. Farm eligibility and maturity of cycle

The ASC CAR states:

17.1.2: Organisations seeking certification shall have been in operation for no less than eighteen months (18) or one harvest cycle as defined in the standard(s), whichever is less ".

For clarity, the ASC provided an interpretation on "organisations" which is defined at the unit of

certification (i.e. the farm). Fish first entered Wanx Tail farm in September 2017, from the intermediary smolt farm Bell Island. At the time of the ASC audit, the farm had been in operation for only nine months. Therefore, the farm is currently ineligible for certification. A re-audit should be conducted when 17.1.2 is fulfilled.

Salmon Standard Requirements

The ASC CAR stipulates Conformity Assessment Bodies (CABs) must conform with the following audit process requirement:

17.3 Audit methodology

17.3.1 The ASC audit shall use the ASC Audit Manual as guidance for the standard(s) for which the client is being audited.

We find the auditor has failed to follow 17.3 for the following Salmon Standard indicators:



Audit team response:

1. Farm eligibility and maturity of cycle

The audit team, the CAB and the farm area aware of this objection from stakeholders. There has been a VR submitted to ASC on CAR 2.1: 17.1.2. VR number is 273 and it can be found on the ASC website.

II. Indicators 2.1.1; 2.1.2; 2.1.3 Benthic monitoring

As per the ASC Audit Manual, compliance evidence for benthic criteria should be obtained in accordance with the sampling methodology outlined in Appendix I-1 Sampling methodology for calculation of faunal index, macrofaunal taxa, sulphide and redox, and copper.

The release of Salmon Standard Version 1.1 included changes to Appendix I-1. These included the following additional auditing guidelines:

Although the site visit should coincide with harvest period, it may be undertaken before end of harvest (at >75% peak biomass) and estimates of indicators requiring data from peak biomass / end of cycle provided in the draft report. The CAB shall review actual figures before the certification decision is made and include these figures in the final report.

Methodology for auditing indicators relating to peak biomass and end of cycle:



- 1) CABs shall carry out site visit audit at >75% peak biomass.
- 2) At the time of the audit the farm shall provide the CAB with estimates of values at that date for indicators that rely on information only available with the farm reaches peak biomass / end of cycle. The Farm shall provide the CAB with values of samples taken at peak biomass and end of cycle when they become available.
- 3) CAB shall raise a non-conformity for indicators where estimated values are used instead of actual values and note the estimated value in the draft audit report. It shall be explained in the draft audit report where figures are estimated and explain that these are to be updated in the final audit report.
- 4) CAB shall review the actual values and supporting evidence when they come back at peak biomass / end of cycle in order to make a certification decision.
- 5) CAB shall not make a certification decision and issue final report until actual values are provided for all indicators except biotic indicators 2.1.2 and 2.1.3.
- 6) In the case that biotic values are not available at the time of drafting the final report the CAB shall carry out a risk assessment to evaluate whether the biotic values are likely to meet the ASC standard. If the CAB finds evidence that the results of the biotic analyses are likely to meet the ASC standard then certification can be granted.
- 7) The CAB shall review biotic findings at the surveillance audit and raise non-conformities as appropriate when results have been found not meet the ASC standard.

The report states sampling was conducted at 75% peak biomass for the current production, with results pending. While Appendix I-1 allows for audits to occur at 75% peak biomass, the methodology still requires peak biomass values to confirm Standard conformance: "values and supporting evidence when they come back at peak biomass / end of cycle in order to make a certification decision". The audit report fails to mention if the farm will be again sampling at peak biomass, as per the rules, and if the auditor plans to close the non-conformities on receipt of the peak biomass results (as per 4 and 5 of the auditing guidelines). Certification can only be granted on receipt of actual peak biomass values for 2.1.1 that demonstrate compliance.

Audit team response:

II. Indicators 2.1.1; 2.1.2; 2.1.3 Benthic monitoring

Its stated in the report that the 75% sampling has been carried out. See indicator 2.1.1 and I draw your attention to the following points:

5) CAB shall not make a certification decision and issue final report until actual values are



III. Indicator 2.2.3 For Jurisdictions that have national or regional coastal water targets...; and Indicator 2.2.4 Evidence of weekly monitoring...

The draft Wanx Tail audit report fails to reference or apply variance 198 to Indicator 2.2.3. VR 198 appropriately states,

"Chile and Canada are amongst the salmon production regions which do not have such a national classification and therefore they are bound by indicator 2.2.4."

As acknowledged by the variance request, with no national water classification, Canadian farms are

Audit team response:

III. Indicator 2.2.3 For Jurisdictions that have national or regional coastal water targets...; and Indicator 2.2.4 Evidence of weekly monitoring...

In this case there is no need to refer to the VR. The CCME, Canadian council for ministers of the environment set quality guidelines where targets are set. The most recent sampling for the area undertaken by Dr Stephen Cross from Global Aquafoods development Corp with data from 38 farms and 204 samples. This more than meet the requirement to determine the water quality.

IV. Indicator 3.1.1 Participation in an Area-Based Management scheme.

The CAB incorrectly evaluates this indicator as "N/A" and states, "In this port Hardy area, all the sites are owned by Marine Harvest, and the closest farm site to Heath is Bull harbour. These two sites are coordinated as the same team manages them. The next nearest farm site after that is 25km away." Yet the Salmon Standard requires all farms except those "that release no water" to participate in an ABM. Therefore, even farms within an area owned by the same company are required to participate in an ABM as outlined by the Standard. The audit fails to demonstrate how MHC meets all components of Appendix II-1.

Audit team response:

IV. Indicator 3.1.1 Participation in an Area-Based Management scheme.

Checklist has been amended as DFO has in fact got management zones in BC. There are 7 zones known as transfer zones. There are also fish health zones. These fish health zones only require notification for moving fish. Fallowing and lice co-ordination is left up to the farms. DFO do check visit the farms to review fish health and lice levels. The report has been modified to reflect this.



V. Indicator 3.2.2 If a non-native species is being produced, evidence of scientific research [41] completed within the past five years that investigates the risk of establishment of the species within the farm's jurisdiction and these results submitted to ASC for review Footnote 41 of Indicator 3.2.2, states:

"The research must at a minimum include multi-year monitoring for non-native farmed species, use credible methodologies and analysis, and undergo peer review."

Specifically, the audit manual's evidence of compliance for 3.2.2C requires CABs to:

"C. Confirm that the scientific research included: multi-year monitoring for non-native farmed species; used credible methodologies & analyses; and underwent peer review..."

The auditor cites Andres (2015). Scientific studies show escapes remain a concern2. The limited number of snorkel surveys actually conducted by Andres3 and his students, during the peak runs of other species, do not constitute 'monitoring'.

The ASC also requires:

... evidence of scientific research completed within the past five years that investigates the risk of establishment of the species within the farm's jurisdiction

Andres' surveys were completed in 2011 and 2012 - more than five years ago. DFO has not monitored for non-native establishment and, until recently, their Atlantic Salmon Watch program was defunct. A recent study found DFO wild salmon monitoring to be woefully inadequate, with around half of B.C. wild salmon streams not monitored4. In the absence of any monitoring at all on half of the streams known to support salmon, including those in the vicinity of Port Hardy, the potential to detect impacts from escapes is vastly reduced.

The Andres summary report is not peer reviewed, did not use a credible methodology and looked at only a limited number of Vancouver Island streams in both of the 2 years' field work reported. The only prior monitoring of those streams was conducted more than a decade earlier and it did find evidence of multiple year-classes of juvenile Atlantic salmon in two of those same streams.

No such scientific study, as required by the ASC, currently exists for the B.C. region. An independent scientific research study that is multi-year, with credible and appropriate methodology and analyses and underwent peer review should be required for B.C. salmon farmers to demonstrate compliance with Indicator 3.2.2.

Audit team response:



V. Indicator 3.2.2 If a non-native species is being produced, evidence of scientific research [41] completed within the past five years that investigates the risk of establishment of the species within the farm's jurisdiction and these results submitted to ASC for review Papers and surveys reviewed at audit including:

Initial Estimates from an Integrated Study Examining the Residence Period and Migration Timing of Juvenile Sockeye Salmon from the Fraser River through Coastal Waters of British Columbia. Chrys-Ellen M. Neville1, Stewart C. Johnson1, Terry D. Beacham1, Timber Whitehouse2, Joe Tadey3 and Marc Trudel1. An overview of beach seine sampling carried out by Mainstream Biological from 2012 to 2017 with a total review of 85719 juvenile salmon sampled from six geographic locations within BC of which 42296 salmon were sampled in 2017. No Atlantic salmon have been caught. Also reviewed a letter from Salmon Interactions, Ecosystem Science Division, Science Branch, Fisheries and Oceans Canada/Government of Canada stating that Trawl and Purse seine surveys from 2010 to 2017. Surveys covering a similar area (Johnstone Strait north of Hardwick Island and into Desolation Sound and Sutil Channel at the South) have been conducted since 2010. Data collected during these surveys are consistent with the results published in Neville et al. (2016). The surveys conducted in this region from 2010-2017 captured about 250,000 fish by purse seine with approximately 150,000 of these identified as Pacific salmon or steelhead. In addition, over the same time period the trawl survey sampled more than 200,000 fish in this region with approximately 34,000 identified as Pacific salmon or steelhead. Over this seven-year period there was no Atlantic salmon of any age class captured.

8.6. 1	E5.1.ii Justification for auditing site(s) meeting conditions under E5.1.i	NA
8.7	E5.1.1.i List of sites removed after the initial audit	NA
8.7. 1	E5.2.2 Reason for the removal of sites from the certificate.	NA
8.8	E5.4 Map of sites included in the unit of	NA
8.9	E5.5 Site(s) in fallowing period included in the audit	NA

		Compliance Criteria (Required Client Actions):	Audit evidence 1. Write down all audit evidence. Audit evidence (including evidence of conformity and nonconformity) should be recorded so that the audit can be repeated by a different audit team. 2. Replace explanitory text. 3. If you see any Compliance Criteria which is not listed below, please describe also in the cells below. A. Review compliance with applicable land and water use laws.	Evaluation (Per indicator, select one category in the drop-down menu)	Description of NC Provide an explanation of the reason(s) for the classification of any NCs or non-applicability	Value/ Metric Provide values - if applicable for the respective Indicator	
		a. Maintain digital or hard copies of applicable land and water use laws.	All applicable laws are available the Marine Harvest quality management system. All updates to the local law are updated within the management system and are available to the whole of the Marine Harvest Group. The system is called Sharepoint, and the				
1.1.1		b. Maintain original (or legalised copies of) lease agreements, land titles, or concession permit on file as applicable.	sites are required by DFO to have a copy of the PAR licence onsite. Facility reference number 7054. Landfile number 1414225. Aquaculture licence expiry June 20, 2022. The licence of occupation covers the right to use the seafloor and surrounds that is				
	Indicator: Presence of documents demonstrating compliance with local and national regulations and requirements on land and water use	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).	owned by the Crown. In this case, the Licence of occupation is held by the Tlatlasikwala first nation and there is an agreement in place for Marine Harvest to use this tenure under an 'Impact Benefits and Tenure support Agreement' dated 25th July				
	Requirement: Yes Applicability: All	d. Obtain permits and maps showing that the farm does not conflict with national preservation areas.	2015 and is valid for 25 years. Inspections are not legally required however sites occasionally get visits from different divisions such as Benthic division, compliance divisions and Fish health divisions. Reports are not made available to the sites unless there is non-conformity detected. Government grants the lease once it is confirmed that national preservation areas are not affected. Maps are in place.	Compliant			
	Indicator: Presence of documents demonstrating compliance with all tax laws	a. Maintain records of tax payments to appropriate authorities (e.g. land use tax, water use tax, revenue tax). Note that CABs will not disclose confidential tax information unless client is required to or chooses to make it public.	Receipts in place to the ministry of finance dated June 29th, 2017 showing payment of property tax for all the Marine Harvest sites. The tax laws are maintained and reviewed by the companies accountants. Laws are equally available online. The licence and Tenure documents detail the site as an Aquaculture facility.	Constitut			
1.1.2	Requirement: Yes	b. Maintain copies of tax laws for jurisdiction(s) where company operates.	The free court court of the cou	Compliant			
	Applicability: All	c. Register with national or local authorities as an "aquaculture activity".					
1.1.3	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.)	All national labour codes and laws applicable to the farm are available on the Marine Harvest Human Resources management system. Human Resources management team reviews all codes and regulations and updates as required.	Conneliant			
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).		Compliant			
	Indicator: Presence of documents demonstrating compliance with regulations and permits concerning	a. Obtain permits for water quality impacts where applicable.	No water impact permits are required.				
1.1.4	water quality impacts Requirement: Yes	b. Compile list of and comply with all discharge laws or regulations.		Compliant			
	Applicability: All	c. Maintain records of monitoring and compliance with discharge laws and regulations as required.					
		PRINCIPLE 2: CONSERVE NATURAL HABITAT, LOI Criterion 2.1 Benthic biodive:					
Footnote	[1] Closed production systems that of	an demonstrate that they collect and responsibly dispose of > 75% of solid nutrients from the p		equirements on t	ransparency for 2.1.1, 2.1.2 ar	nd 2.1.3.	
For farms lo	Instruction to Clients and CABs on Criterion 2.1 - Modification of the Benthic Sampling Methodology For farms located in a jurisdiction where specific benthic sampling locations are required under law, clients may request to modify the benthic sampling methodology prescribed in Appendix I-1 to allow for sampling at different locations and/or changes in the total number of samples. Where modifications are sought, farms shall provide a full justification to the CAB for review. Requests for modification shall be supported by mapping of differences in sampling locations. In any event, the sampling locations must at a minimum include samples from the cage edge and samples taken from inside and outside of a defined AZE.						
	CABs shall evaluate client requests to modify benthic methodology based on whether there is a risk that such changes would jeopardize the intent and rigor of the ASC Salmon Standard. If the CAB determines that proposed modifications are low risk, the CAB shall ensure that details of the modified benthic sampling methodology are fully described and justified in the audit report.						
		Note: Under Indicator 2.1.1, farms can choose to measure redox potential (Option #1) or sulph	nide concentration (Option #2). Farms do not have to demonstrate that they meet both t	threshold values.			
		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.	The map of the site is available and has been put together internally by Marine Harvest. Sampling has been based on the AUTODEPOMOD system with the stations located accordingly. The site has a soft bottom. Option 2 has been chosen		The sampling test results have not yet been sent to ASC as some of the biological data is not yet		

2.1.1	Indicator: Redox potential or [2] sulphide levels in sediment outside of the Allowable Zone of Effect (AZE) [3], following the sampling methodology outlined in Appendix I-1 Requirement: Redox potential > 0 mV or Sulphide ≤ 1,500 µMol/L Applicability: All farms except as noted in [1]	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. c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard. d. Collect sediment samples in accordance with the methodology in Appendix I-1 (i.e. at the time of peak cage biomass and at all required stations). e. For option #1, measure and record redox potential (mV) in sediment samples using an appropriate, nationally or internationally recognized testing method. f. For option #2, measure and record sulphide concentration (μM) using an appropriate, nationally or internationally recognized testing method. g. Submit test results to ASC as per Appendix VI at least once for each production cycle. If site has hard bottom and cannot complete tests, report this to ASC.	8.91, and the highest reading was 130. The sampling results have not yet been sent to ASC as some of the biological data is not yet been processed, and the intention is to submit it to ASC at the same time." Audit update 7th September 2018: The auditor was supplied with the results of the updated benthic sampling that was carried out at peak biomass and dated July 24th 2018. Carried out by Mainstream Environmental. The results show that all 3 outside the AZE stations and for each replicate, the levels of sulphides were all above the requirement. The lowest reading was 9.2 and the highest reading was 130. Mean results were Station A: 85.7, Station B: 41.7 and Station C: 7.49. The reference site reading was 3.66. 60% of the fish has been harvested and the site will be empty by November.	Minor	peen processed, and the intention is to submit it all to ASC at the same time.	The lowest reading was 8.9, and the highest reading was 130. AS per September update: The results show that all 3 outside the AZE stations and for each replicate, the levels of sulphides were all above the requirement. The lowest reading was 9.2 and the highest reading was 130. Mean results were Station A: 85.7, Station B: 41.7 and Station C: 7.49. The reference site reading was 3.66. This minor was closed then.
Footnote		[2] Farm sites can choose whether to use redox or su	ulphide. Farms do not have to demonstrate that they meet both.			
		Notes: - Under Indicator 2.1.2, farms can choose one of four measurements to show compliance with they meet all four threshold values. - If a farm is exempt due to hard bottom benthos (see 2.1.1b), then 2.1.2 does not apply and the second		QI (Option #3); c	or ITI (Option #4). Farms do no	ot have to demonstrate that
	Indicator: Faunal index score indicating good [4] to high ecological quality in sediment outside the AZE, following the sampling methodology outlined in Appendix I-1 Requirement: AZTI Marine Biotic Index (AMBI [5]) score	a. Prepare a map showing the AZE (30 m or site specific) and sediment collections stations (see 2.1.1). b. Inform the CAB whether the farm chose option #1, #2, #3, or #4 to demonstrate compliance with the requirement. c. Collect sediment samples in accordance with Appendix I-1 (see 2.1.1). d. For option #1, measure, calculate and record AZTI Marine Biotic Index [5] score of sediment samples using the required method.	scores are not yet available. Audit update. ASC have granted a VR number 224 in relation to 2.1.2 and 2.1.3. This VR instead relies on the scientifically proven and federally regulated sulfide surrogates. http://variance-requests.asc-aqua.org/questions/vr-224-benthic-biodiversity-and-benthic-effects-salmon-v1-0-2-1-2-2-1-3/		have not yet been sent to ASC as some of the biological data is not yet been processed, and the intention is to submit it all to ASC at the same time. Update: A VR has been allowed by ASC number 224.	
2.1.2	s 3.3, or Shannon-Wiener Index score > 3, or Benthic Quality Index (BQI) score ≥ 15, or Infaunal Trophic Index (ITI) score ≥ 25 Applicability: All farms except as noted in [1]	e. For option #2, measure, calculate and record Shannon-Wiener Index score of sediment samples using the required method. f. For option #3, measure, calculate and record Benthic Quality Index (BQI) score of sediment		Minor		Closed with a VR in place VR number 224. 25/11/18.
		samples using the required method. g. For option #4, measure, calculate and record Infaunal Trophic Index (ITI) score of sediment samples using the required method.				
		h. Retain documentary evidence to show how scores were obtained. If samples were analyzed and index calculated by an independent laboratory, obtain copies of results.				
		i. Submit faunal index scores to ASC (Appendix VI) at least once for each production cycle.				
Footnote	[4] "Good" Ecological	Quality Classification: The level of diversity and abundance of invertebrate taxa is slightly outside	le the range associated with the type-specific conditions. Most of the sensitive taxa of th	e type-specific c	ommunities are present.	
Footnote		[5] http://www.azti.es/er	n/ambi-azti-marine-biotic-index.html.			
	Indicator: Number of macrofaunal taxa in the sediment within the AZE, following the sampling methodology	a. Document appropriate sediment sample collection as for 2.1.1a and 2.1.1c, or exemption as per 2.1.1b. b. For sediment samples taken within the AZE, determine abundance and taxonomic composition of macrofauna using an appropriate testing method.	MHC staff conducted samples at Heath, analysis done by Columbia Science. The Macrofaunal results for Heath Bay are not yet available as the results are being analysed and therefore cannot be reviewed for compliance to the standard at this time. There is no historical benthic data for this site. Audit update: Email dated 22/10/18 from Marine Harvest, which shows the results for the stations are 15,13 and 7 non pollution indicator species inside the zone of effect.		The Macrofaunal results for Heath Bay are not yet available as the results are being analysed and therefore cannot be reviewed for compliance	

Footnote 2.1.4	outlined in Appendix I-1 Requirement: 2 2 highly abundant [6] taxa that are not pollution indicator species Applicability: All farms except as noted in [1] 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]	c. Identify all highly abundant taxa [6] and specify which ones (if any) are pollution indicator species. d. Retain documentary evidence to show how taxa were identified and how counts were obtained. If samples were analyzed by an independent lab, obtain copies of results. e. Submit counts of macrofaunal taxa to ASC (Appendix VI) at least once for each production cycle. [6] Highly abundant: Greater than 100 organisms per square meter (a. Undertake an analysis to determine the site-specific AZE and depositional pattern. b. Maintain records to show how the analysis (in 2.1.4a) is robust and credible based on modeling using a multi-parameter approach [7]. c. Maintain records to show that modeling results for the site-specific AZE have been verified with > 6 months of monitoring data.	or equally high to reference site(s) if natural abundance is lower than this level). Marine Harvest uses the DEPOMOD modelling tool to determine the AZE. This site was first modelled in 2009. The model allows parameters can be changed to reflect whats happening. The model is based on feed use of 1055kg/cage/day. DEPOMOD is used as the modelling tool and is favoured by DFO. The model was developed in Scotland in conjunction with SEPA. Verification is being done using the sampling results specifically for Sulphides as required in Canada.	Major Compliant	with the standard at this time. There is no historical data for this site.	15,13 and 7.
Footnote	[7] Robust and credible: The SEPA	A AUTODEPOMOD modeling system is considered to be an example of a credible and robust sys	stem. The model must include a multi-parameter approach. Monitoring must be used to	ground-truth the	e AZE proposed through the m	nodel.
		Criterion 2.2 Water quality in an				
Footnote		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions): cy requirements for 2.2.1, 2.2.2, 2.2.3 and 2.2.5.			
2.2.1	Indicator: Weekly average percent saturation [9] of dissolved oxygen (DO) [10] on farm, calculated following methodology in Appendix I-4	Instruction to Clients for Indicator 2.2.1 - Monitoring Average Weekly Percent Saturation of Appendix I-4 presents the required methodology that farms must follow for sampling the aver measurements may be taken with a handheld oxygen meter or equivalent chemical method; equipment is calibrated according to manufacturer's recommendations; measurements are taken at least twice daily; once in the morning (6 - 9 am) and once in the assilinity and temperature must also be measured when DO is sampled; sampling should be done at 5 meters depth in water conditions that would be experienced be each week, all DO measurements are used in the calculation of a weekly average percent sat If monitoring deviates from prescribed sampling methodology, the farm shall provide the aud reduction of DO monitoring frequency to one sample per day. Exception [see footnote 12] If a farm does not meet the minimum 70 percent weekly average the edge of the net pen array, in a location that is understood to follow similar patterns in ups coastal communities. For any such exceptions, the auditor shall fully document in the audit re Note 1: Percent saturation is the amount of oxygen dissolved in the water sample compared to	age weekly percent saturation of dissolved oxygen (DO). Key points of the method are as afternoon (3-6 pm) as appropriate for the location and season; by fish (e.g. at the downstream edge of a net pen array): uration. Itor with a written justification (e.g. when samples are missed due to bad weather). In line saturation requirement, the farm must demonstrate the consistency of percent saturation welling to the farm site and is not influenced by nutrient inputs from anthropogenic cause port how the farm has demonstrated consistency with the reference site.	nited and well-ju	nce site. The reference site sha	all be at least 500 meters from
	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. d. If any weekly average DO values are < 70%, or approaching that level, monitor and record DO at a reference site and compare to on-farm levels (see instructions). e. Arrange for auditor to witness DO monitoring and calibration while on site. f. Submit results from monitoring of average weekly DO as per Appendix VI to ASC at least once per year.	The records show that no sampling period was below 70%. There are at least three sensors on site of which two are in pens, and one is outside the pens. The sensors are from Pentair. There is a backup handheld probe. The staff are capable of calibrating if required.	Compliant		

Footnote			0				
Footnote		[10] Averaged weekly from two da	ily measurements (proposed at 6 am and 3 pm).				
Footnote		[11] An exception to this standard shall be made for farms that	t can demonstrate consistency with a reference site in the same water body.				
2.2.2	Indicator: Maximum percentage of weekly samples from 2.2.1 that fall under 2 mg/L DO Requirement: 5%	a. Calculate the percentage of on-farm samples taken for 2.2.1a that fall under 2 mg/L DO.	There are no samples recorded below 2mg/l and results have been submitted.	Compliant			
	Applicability: All	b. Submit results from 2.2.2a as per Appendix VI to ASC at least once per year.					
	Indicator: For jurisdictions that have national or regional	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	The CCME, Canadian council for ministers of the environment set quality guidelines. The parameters covered in the Marine environment are Nitrate, Nitrite and Phosphorus though Phosphorus has no levels set.				
2.2.3	coastal water quality targets [12], demonstration through third-party analysis that the farm is in an area recently [13] classified as having "good" or "very good" water quality [14]	b. Compile a summary of relevant national or regional water quality targets and classifications, identifying the third-party responsible for the analysis and classification.	The report which is a literature review from Dr Stephen Cross and Sherrington on water quality conditions of Coastal British Columbia and Nutrient release from net cage aquaculture in Quastino sound. Papers reviewed from 1982 to 2005. Following this sampling onsite has taken place by Marine Harvest for plankton and nutrient	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.	monitoring which was carried out from May to October 2016 and is updated every two years. Under the data summary, the author states that the results indicate good conditions. The most recent sampling for the area undertaken by Dr Stephen Cross from Global Aquafoods development Corp with data from 38 farms and 204 samples.				
Footnote		[12] Related to nut	trients (e.g., N, P, chlorophyll A).				
Footnote			two years prior to the audit.				
Footnote		[14] Classifications of "good" and "very good" are used in the EU Water Framework Directive.		ns are acceptabl	e.		
Footnote	[15] Closed production system	ns that can demonstrate the collection and responsible disposal of > 75% of solid nutrients as a	well as > 50% of dissolved nutrients (through biofiltration, settling and/or other technolog	gies) are exempt	from standards 2.2.3 and 2.2.	4.	
2.2.4	Indicator: For jurisdictions without national or regional coastal water quality targets, evidence of monitoring of nitrogen and phosphorous [16] levels on farm and at a reference site, following methodology in Appendix I-5 Requirement: Consistency with reference site Applicability: All farms except as noted in [16]	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. b. Calibrate all equipment according to the manufacturer's recommendations.	See 2.2.3	N/A			
	Applicability. All farms except as noted in [20]	c. Submit data on N and P to ASC as per Appendix VI at least once per year.					
Footnote			mn. Results shall be submitted to the ASC database. Methods such as a Hach kit are accep	otable.			
2.2.5	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 = ((total N in fise) + 4.57) + ((total C in feed – total C in fish) + 2.67). A farm may deduct N or C that is captured, filtered or absorbed through approaches such as IMTA or through direct collection of nutrient wasted. In this equation, "fish" refers to harvested fish. In this case, farm must submit breakdown of N 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, M Giobal Aquaculture Performance index BOD calculation methodology available at http://web.uvic.ca/~gapi/explore-gapi/bod.html. Note 1: Calculation requires a full production cycle of data and is required beginning with the 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 coll understanding of the calculations. Requirement: Yes Applicability: All BOD data is collected on all ASC sites as per the requirements. The BOD to date is					009; VeraCruz, Mexico. And: data is being collected and an	
		a. Collect data throughout the course of the production cycle and calculate BOD according to formula in the instruction box. b. Submit calculated BOD as per Appendix VI to ASC for each production cycle.	2,160,625kg. The metric will be submitted at the end of the current cycle.	Compliant			
Footnote	[17] BOD calculated as: ((total N in feed – total N in fish)*4.57) + ((total C in feed – total C in fish)*2.67). A farm may deduct N or C that is captured, filtered or absorbed through approaches such as IMTA or through direct collection of nutrient wasted. In this equation, "fish" refers to harvested fish. Reference for						

2.2.6	Indicator: Appropriate controls are in place that maintain good culture and hygienic conditions on the farm which extends to all chemicals, including veterinary drugs, thereby ensuring that adverse impacts on environmental quality are minimised. Requirement: Yes Applicability: All	b. Apply the systems ensuring that staff are aware, qualified and trained to proberly implement them.	All chemicals observed were bunded and controlled. The MSD sheets were in place. Staff were questioned on the use of Tricaine when sampling fish and doing lice checks. Staff are trained on the DATS system in relation to chemical handling and health and safety.	Compliant			
		Criterion 2.3 Nutrient re Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):				
		Note: The methodology given in Appendix I-2 is used to determine the fines (dust and small fr	, , , , ,				
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 Applicability: All farms except as noted in [19]	a. Determine and document a schedule and location for quarterly testing of feed. If testing prior to delivery to farm site, document rationale behind not testing on site. 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 the pooled sample for each quarter. For first audits, farms must have test results from the last 3 months.	Variance number 246 in place to allow for the feed company to carry out the samples. Results are in place from the feed company which is Skretting. Lot numbers sampled are in place and reported to the site. Fines results for the 1st quarter for 2018 show that three types of feed with five subsamples within each lot shows no more than 0.1% of fines.	Compliant		0.01%	
Footnote	[18] Fines: Dust and fragments in the feed. Particles that s	eparate from feed with a diameter of 5 mm or less when sieved through a 1 mm sieve, or parti are d	cles that separate from feed with a diameter greater than 5 mm when sieved through a elivered to farm). $ \\$	2.36 mm sieve. T	o be measured at farm gate (e	e.g., from feed bags after they	
Footnote	responsible disposal of > 75% of solid nutrients and > 50% of dissolved nutrients (through dionitration, settling and/or other technologies) are exempt.						
		Criterion 2.4 Interaction with critica Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):				
		Compinance ordering Required Client Actions): Note: If a farm has previously undertaken an independent assessment of biodiversity impact (components in Appendix I-3 are explicitly covered.	e.g. as part of the regulatory permitting process), the farm may use such documents as e	vidence to demo	onstrate compliance with Indic	ator 2.4.1 as long as all	
2.4.1	indicator: Evidence of an assessment of the farm's potential impacts on biodiversity and nearby ecosystems that contains at a minimum the components outlined in Appendix I-3	a. Perform (or contract to have performed) a documented assessment of the farm's potential impact on biodiversity and nearby ecosystems. The assessment must address all components outlined in Appendix I-3.	The company has a wildlife interaction plan ID SW965 that is a BAP requirement for its certification. The plan was put in place several years ago, but the current update is dated February 9th, 2018. Risks include fish mortalities as an attractant, and the control measures include routine mort retrieval, appropriate mort disposal and containment and mortalities stored away from the main production area. Mortality				
	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.	records are in place on the farm site. All records are added to the company's database, and records for disposal are documented.	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.					

		Instruction to Clients for Indicator 2.4.2 - Exceptions to Requirements that Farms are not sit The following exceptions shall be made for Indicator 2.4.2:	ed within Protected Areas or HCVAs					
		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 complimpacting the core reason an area has been identified as a HCVA.	patible with the conservation objectives of the HCVA designation. The burden of proof we	ould be placed or	n the farm to demonstrate tha	at it is not negatively		
		Exception #3: For farms located in a protected area if it was designated as such after the farm area and it is in compliance with any relevant conditions or regulations placed on the farm as core reason an area has been protected.						
		Definitions Protected area: "A clearly defined geographical space, recognized, dedicated and managed th	rough local or other officiality means to college the local term representation of value united	th acceptant and	an unton consiste and sultural	volvos "		
		High Conservation Value Areas (HCVA): Natural habitats where conservation values are considerated the conservation values are considerated that the conservation value are considerated that the conservation values are considerated that the conservation value are conservation values are conservation to the conservation value are conservation values are conservation values are conservation values are conservation values.						
		identifying critical conservation values—both social and environmental—and for planning eco			ioidei approacii tilat provides	a systematic basis for		
	Indicator: Allowance for the farm to be sited in a protected area [20] or High Conservation Value Areas [21] (HCVAs)							
2.4.2	Requirement: None [22]							
	.,							
	Applicability: All farms except as noted in [22]	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).	There is a declaration from the company's regulatory affairs manager sent by e-mail dated March 2018 declaring that all finfish tenures are not sited in an HCVA protected area. However, there can be protection for individual species of animals or fish. In this case, there is a rockfish preservation area. These are Rockfish 'no take' area even					
		b. If the farm is not sited in a protected area or High Conservation Value Area as defined above, prepare a declaration attesting to this fact. In this case, the requirements of 2.4.2c-d do not apply.	though commercial fishing is not restricted. The site is not located in an HCVA.					
		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.		Compliant				
		d. If the farm is sited in a protected area or HCVA and the exceptions provided for Indicator 2.4.2 do not apply, then the farm does not comply with the requirement and is ineligible for ASC certification.						
Footnote	[20] Protected area: "A clearly defined geographical space	Le, recognized, dedicated and managed through legal or other effective means, to achieve the I		" Source: Dudley,	N. (Editor) (2008), Guidelines	for Applying Protected Area		
		Management Categories	, Gland, Switzerland: IUCN. x + 86pp.					
Footnote	[21] High Conservation Value Areas (HCVA): Natural ha	bitats where conservation values are considered to be of outstanding significance or critical im environmental—and for planning ecosystem management in order to ensure tha	portance. HCVA are designated through a multi-stakeholder approach that provides a syst t these high conservation values are maintained or enhanced (http://www.hcvnetwork.o		identifying critical conservati	on values—both social and		
Footnote	[22] The following exceptions shall be made for Standard 2.4.2: • For protected areas classified by the International Union for the Conservation of Nature (IUCN) as Category V or VI (these are areas preserved primarily for their landscapes or for sustainable resource management). • For HCVAs if the farm can demonstrate that its environmental impacts are compatible with the conservation objectives of the HCVA designation. The burden of proof would be placed on the farm to demonstrate that it is not negatively impacting the core reason an area has been identified as a HCVA. • For farms located in a protected area if it was designated as such after the farm was already in operation and provided the farm can demonstrate that its environmental impacts are compatible with the conservation objectives of the protected area and it is in compliance with any relevant conditions or regulations placed on the farm as a result of the formation/designation of the protected area. The burden of proof would be placed on the farm to demonstrate that it is not negatively impacting the core reason an area has been protected.							
		Criterion 2.5 Interaction with w	ildlife, including predators [23]					
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):					
Footnote			rency requirements for 2.5.2, 2.5.5 and 2.5.6.					
		I			T			
2.5.1	Indicator: Number of days in the production cycle when acoustic deterrent devices (ADDs) or acoustic harassment devices (AHDs) were used	a. Compile documentary evidence to show that no ADDs or AHDs have been used by the farm.	The PAR licence prohibits the use of ADD's. Found in section 11.2 page 17 prohibits their use. No evidence of devices onsite.	Compliant		0		
	Requirement: 0							
	Applicability: All	-						

A place of the property of the							
Advanced and present membranes. Advanced and present and design in the control present present and			a. Prepare a list of all predator control devices and their locations.	HDPE nets manufactured in India with an electrified wire one ft above the water line.			
Secretaria Disposition D			b. Maintain a record of all predator incidents.	Mammals and these must be reported. There have been no deaths of endangered or red-listed vertebrates in the last cycles. Records in place but no red-listed or			
Formulate Complete	2.5.2			listed animals on site. There are ID cards for cetaceans available on site. BAP requires	Compliant		0
Registrate (1) (and states to the following places were described and contractive of the following places and states and states to the following places and states an		Applicability: All					
Post			-				
Malicator. Evolution that the fallowing signy were stated process. A provide a first of all feeful across front feeful registers from the second prediction and the past of the first state of the first s	Footnote		[25] Mortalities: Includes animals intentionally killed through let	nal action as well as accidental deaths through entanglement or other means.			
indicates: Covere the tast following segar were table in price to letter day of the contract o	Footnote		[26] Species listed as endangered or critically end	angered by the IUCN or on a national endangered species list.			
2.23 Approvide was greater from a sentor manager show the primary of all of the first manager of the provided and store the first manager of the short and the first manager of the short manager of t		prior to lethal action [27] against a predator: 1. All other avenues were pursued prior to using lethal	12-month period. Note: "lethal action" is an action taken to deliberately kill an animal,				
Applicability. All except cases where human safety is endangered as noted in [28] [27] Lethal actions rectainly provide commentary evalence as outlined in [28]. [27] Lethal actions rectainly provide commentary evalence as outlined in [28]. [28] Exception to these conditions may be made for a rare efficient where human safety is endangered. Should this be required, post incident approval from a senior manager should be made and relevant authorities must be informed. International for the provide commentary evidence as outlined in [28]. International for the provide commentary evidence as outlined in [28]. International for the provide commentary evidence as outlined in [28]. International for the provide commentary incidents approved from a senior manager should be made and relevant authorities must be informed. International for the provide commentary incidents approved from a senior manager should be made and relevant authorities must be informed. International for the purpose of assisting farms and auditors with understanding how to evaluate compliance with indicators 25.4, 25.5, and 25.6, ASC has clarified the decisions further. International for the purpose of assisting farms and auditors with understanding how to evaluate compliance with indicators 25.4, 25.5, and 25.6, ASC has clarified the decisions for the purpose of assisting farms and auditors with understanding how to evaluate compliance with indicators 25.4, 25.5, and 25.6, ASC has clarified the decisions for the purpose of assisting farms and auditors with understanding how to evaluate compliance with indicators 25.4, 25.5, and 25.6, ASC has clarified the decisions for the purpose of assisting farms and auditors with understanding how to evaluate compliance with indicators 25.4, 25.5, and 25.6, ASC has clarified the decisions for the farm has taken one [1] lethal action in past last two years and that single lethal action resulted in killing three [3] birds, it is considered three [3] birds, it is considered three [3] birds, it is conside	2.5.3	Approval was given from a senior manager above the farm manager Explicit permission was granted to take lethal action against the specific animal from the relevant regulatory authority	a rationale showing how the farm pursued all other reasonable avenues prior to using lethal action; proval from a senior manager above the farm manager of the lethal action; where applicable, explicit permission was granted by the relevant regulatory authority to		Compliant		
Footnote [28] Exception to These conditions may be made for a rare situation where human safety is endangered. Should this be required, post-incident approval from a senior manager should be made and relevant authorities must be informed. Instruction to Citents and CABs on Indicators 2.5.4, 2.5.5, and 2.5.6. Clarification about the ASC Definition of "Lethal Incidents" The ASC Salmon Standard has defined "Lethal Incident" to include all lethal actions sa well as entanglements or other accidental mortalities of non-salmonids [flootrote 29]. For the purpose of assisting farms and auditors with understanding how to evaluate compliance with indicators 2.5.4, 2.5.5, and 2.5.6. ASC has clarified the definition further. Total number of lethal Incidents - sum of all non-salmonid deaths arising from all lethal actions taken by the farm during a given time period. The term "non-salmonid" was intended to cover any predatory animals which are likely to try to feed upon farmed salmon. In practice these animals will usually be seals or birds. Indicator: Evidence that information about any lethal incidents. [20] on the farm has been made easily publicly available within 30 days of occurrence. Indicator: Evidence that information about any lethal incidents. [20] on the farm has been made easily publicly available within 30 days of occurrence. Indicator: Evidence that information about any lethal incidents. [20] on the farm has been made easily publicly available within 30 days of occurrence. Indicator: Evidence that information about any lethal incidents. [20] on the farm has been made easily publicly available within 30 days of occurrence. Indicator: Evidence that information about any lethal incidents. [20] on the farm has been made easily publicly available within 30 days of occurrence. In a literal actions (see 2.5.3), keep records showing that the farm made the information about any lethal incidents. [20] on the farm has been made easily publicly available. [21] on the farm has been made easily publicly available		Applicability: All except cases where human safety is	the animal. If human safety was endangered and urgent action necessary, provide				
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The ASC Salmon Standard has defined "Lethal incident" to include all lethal actions as well as entanglements or other accidental mortalities of non-salmonids [footnote 29]. For the purpose of assisting farms and auditors with understanding how to evaluate compliance with indicators 2.5.4, 2.5.5, and 2.5.6, ASC has clarified the clinicidents in the past of control to the purpose of lethal incidents = sum of all non-salmonid deaths arising from all lethal actions taken by the farm during a given time period There should be a 1.1 relationship between the number of animal deaths and the number of lethal incidents reported by the farm. For example, if a farm has taken one (1) lethal action in past last two years and that single lethal action resulted in killing three (3) birds, it is considered three (3) lethal incidents within a two years period. The term "non-salmonid" was intended to cover any predatory animals which are likely to try to feed upon farmed salmon. In practice these animals will usually be seals or birds. There have been no lethal incidents is posted on the information about any lethal incidents is posted on the information available (29) and in the farm has been made easily publicly available (29) and incidents (25.3), keep records showing that the farm made the information available within 30 days of cocurrence. Tootnote Tootnote Tootnote Tootnote Indicator: Maximum number of lethal incidents [30] on the farm was the information about all lethal actions (see 2.5.3) for a minimum of two years. For first avails, 2 for the farm was available within 30 days of the incident and see Appendix VI for transparency requirements. There have been no lethal incidents is posted on the information available within 30 days of the incident and see Appendix VI for transparency requirements. The part have been no lethal incidents is posted on the information available within 30 days of the incident and see Appendix VI for transparency requirements. Tootnote Tootnote Indicator: Maximum number of lethal i	Footnote	[28] Exception to	these conditions may be made for a rare situation where human safety is endangered. Should	this be required, post-incident approval from a senior manager should be made and rele	evant authorities	must be informed.	
There should be a 1.1 relationship between the number of animal deaths and the number of lethal incidents reported by the farm. For example, if a farm has taken one (1) lethal action in past last two years and that single lethal action resulted in killing three (3) birds, it is considered three (3) lethal incidents within a two year period. The term "non-salmonid" was intended to cover any predatory animals which are likely to try to feed upon farmed salmon. In practice these animals will usually be seals or birds. There have been no lethal incidents. Information relating to incidents is posted on the available within 30 days of occurrence. Indicator: Evidence that information about any lethal incidents (30) on the farm has been made easily publicly available (25) Requirement: Ves Applicability: All Indicator: Masimum number of lethal incidents (30) on the farm over the prior two years Indicator: Masimum number of lethal incidents (30) on the farm over the prior two years Indicator: Masimum number of lethal incidents (30) on the farm over the prior two years Indicator: Masimum number of lethal incidents (30) on the farm over the prior two years Indicator: Masimum number of lethal incidents (30) on the farm over the prior two years Indicator: Masimum number of lethal incidents (30) on the farm over the prior two years Indicator: Masimum number of lethal incidents (30) on the farm over the prior two years Indicator: Masimum number of lethal incidents (30) on the farm over the prior two years Indicator: Masimum number of lethal incidents (30) on the farm over the prior two years Indicator: Masimum number of lethal incidents (30) on the farm over the prior two years Indicator: Masimum number of lethal incidents (30) on the farm over the prior two years Indicator: Masimum number of lethal incidents (30) on the farm over the prior two years Indicator: Masimum number of lethal incidents (30) on the farm over the prior two years Indicator: Masimum number of lethal incidents (30) on the farm over the	The ASC Saln	non Standard has defined "Lethal incident" to include all let		e 29]. For the purpose of assisting farms and auditors with understanding how to evaluat	e compliance wit	th Indicators 2.5.4, 2.5.5, and 2	2.5.6, ASC has clarified this
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Ensure that information about all lethal actions listed in 2.5.4a are made easily publicly available." Shall be made available within 30 days of the incident and see Appendix VI for transparency requirements. [29] Posting results on a public website is an example of "easily publicly available." Shall be made available within 30 days of the incident and see Appendix VI for transparency requirements. [29] Posting results on a public website is an example of "easily publicly available." Shall be made available within 30 days of the incident and see Appendix VI for transparency requirements. [29] Posting results on a public website is an example of "easily publicly available." Shall be made available within 30 days of the incident and see Appendix VI for transparency requirements. [30] Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years [30] Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years [31] Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years [32] Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years [33] Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years [34] Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years [35] Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years [36] Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years [37] Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years [38] Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years [38] Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years [38] Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years [38] Indicator: Maximum number of lethal incidents [30] on the farm over the prior two years [38] Indicator: Maximum number o	2.5.4	available [29]			Compliant		
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a. Maintain log of lethal incidents (see 2.5.3a) for a minimum of two years. For first audit, > 6 to the farm over the prior two years 2.5.5 Requirement: < 9 lethal incidents [31], with no more a. Maintain log of lethal incidents (see 2.5.3a) for a minimum of two years. For first audit, > 6 to wo years. Mammalian deaths are required to be reported to DFO. There were mammalian deaths previously in 2015. b. Calculate the total number of lethal incidents and the number of incidents involving marine mammals during the previous two year period. Compliant O	Footnote		[29] Posting results on a public website is an example of "easily publicly available." Shall	be made available within 30 days of the incident and see Appendix VI for transparency re	equirements.		
b. Calculate the total number of lethal incidents and the number of incidents involving 2.5.5 Requirement: < 9 lethal incidents [31], with no more mammals during the previous two year period. b. Calculate the total number of lethal incidents involving marine mammals during the previous two year period. Compliant				two years. Mammalian deaths are required to be reported to DFO. There were			
·	2.5.5	Requirement: < 9 lethal incidents [31], with no more	· ·		Compliant		0

Footnote Footnote 2.5.6	Applicability: All Indicator: In the event of a lethal incident, evidence that an assessment of the risk of lethal incident(s) has been undertaken and demonstration of concrete steps taken by the farm to reduce the risk of future incidences Requirement: Yes	1 1	s entanglements or other accidental mortalities of non-salmonids. d non-red-listed species. This standard complements, and does not contradict, 2.5.3. Animal incident de-brief document in place. Origin date 4th August 2016. The form includes an investigation into the incident and corrective action. Staff are aware of the reporting, and corrective actions process and emails are sent to other sites to make sure that all are aware of the corrective actions.	Compliant		0
	Applicability: All					
		PRINCIPLE 3: PROTECT THE HEALTH AND GE Criterion 3.1 Introduced or amplified				
			Auditor Evaluation (Required CAB Actions):			
Footnote		[32] Farm sites for which there is no release of water that may contain pathogens into the		iterion 3.1.		
Footnote		[33] See Appendix VI for transparency r	equirements for 3.1.1, 3.1.3, 3.1.4, 3.1.6 and 3.1.7.			
According to following ho 1) the farm o 2) any efflue	lds: does not release any water to the natural environment; or	rater that may contain pathogens into the natural (freshwater or marine) environment are exemen en effectively treated to kill pathogens (e.g. UV and/or chemical treatment of water with testing the audit report.	demonstrating efficacy).	for exemption fro	om Criterion 3.1 if it can be sh	own that either of the
	Indicator: Participation in an Area-Based Management (ABM) scheme for managing disease and resistance to treatments that includes coordination of stocking, fallowing, therapeutic treatments and information- sharing. Detailed requirements are in Appendix II-1. Requirement: Yes Applicability: All except farms that release no water as noted in [32]	a. Keep record of farm's participation in an ABM scheme. b. Submit to the CAB a description of how the ABM (3.1.1a) coordinates management of disease and resistance to treatments, including: - coordination of stocking; - fallowing; - therapeutic treatments; and - information sharing. c. Provide the CAB access to documentation which is sufficient for the auditor to evaluate the ABM's compliance with all requirements in Appendix II-1, including definition of area, minimum % participation in the scheme, components, and coordination requirements. d. Submit dates of fallowing period(s) as per Appendix VI to ASC at least once per year.	In this port Hardy area, all the sites are owned by Marine Harvest, and the closest farm site to Heath is Bull harbour. These two sites are coordinated as the same team manages them. The next nearest farm site after that is Z5km away. Heath will be fallow in November and will not be re-stocked for one year. This is the first stocking for this site. DFO has management zones in BC. There are 7 zones known as transfer zones. There are also fish health zones. These fish health zones only require notification for moving fish. http://www.dfo-mpo.gc.ca/aquaculture/bc-cb/maps-cartes-eng.html	Compliant		
3.1.2	Indicator: A demonstrated commitment [34] to collaborate with NGOs, academics and governments on areas of mutually agreed research to measure possible impacts on wild stocks Requirement: Yes Applicability: All except farms that release no water as noted in [32]	Note: Indicator 3.1.2 requires that farms demonstrate a commitment to collaborate with NGO collaborate on such research projects, the farm may demonstrate compliance by showing evid 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. 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. 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.				

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		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.				
Footnote	[34] Commitment: At a mir	nimum, a farm and/or its operating company must demonstrate this commitment through prov	iding farm-level data to researchers, granting researchers access to sites, or other simila	r non-financial su	pport for research activities.	
		a. Keep records to show that a maximum sea lice load has been set for: - the entire ABM; and - the individual farm.	The sea lice load is based on the maximum number of fish multiplied by the maximum number of sea lice at trigger level that is three motiles. The number is set as 1,654,650.			
313	Indicator: Establishment and annual review of a maximum sea lice load for the entire ABM and for the individual farm as outlined in Appendix II-2 Requirement: Yes	b. Maintain evidence that the established maximum sea lice load (3.1.3a) is reviewed annually as outlined in Appendix II-2, incorporating feedback from the monitoring of wild salmon where applicable (See 3.1.6).		Compliant		
	Applicability: All except farms that release no water as noted in [32]	c. Provide the CAB access to documentation which is sufficient for the auditor to evaluate whether the ABM has set (3.1.3a) and annually reviewed (3.1.3.b) maximum sea lice load in compliance with requirements in Appendix II-2.				
		d. Submit the maximum sea lice load for the ABM to ASC as per Appendix VI at least once per year.				
		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).	week and every other week there are 60 fish counted to comply with the DFO requirements. 20 from each cage are sampled. The is one reference cage which is the first cage stocked onsite and then up to 2 others depending on if the site is counting			
		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.	the 40 or 60 fish. Information sampling counts are logged on the Marine Harvest dashboard. The company also maintains a spreadsheet. DFO is given the counts monthly and if there is a lice level exceedance. The certification administrator submits the counts to the Dashboard, and the information is kept on count days and posting			
3.1.4	Indicator: Frequent [35] on-farm testing for sea lice, with test results made easily publicly available [36] within seven days of testing Requirement: Yes Applicability: All except farms that release no water as	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.	dates. This is reviewed every Monday.	Compliant		
	noted in [32]	d. Make the testing results from 3.1.4b easily publicly available (e.g., posted to the company's website) within seven days of testing. If requested, provide stakeholders access to hardcopies of test results.				
		e. Keep records of when and where test results were made public.				
		f. Submit test results to ASC (Appendix VI) at least once per year.				
Footnote	[35] Testing must be weekly during and immediately prio		ods for monitoring sea lice, such as video monitoring, may be used.	that it would jeo	pardize farmed fish health to	test for lice (below 4 degrees
Footnote			site is an example of "easily publicly available."			
		Instruction to Clients for Indicator 3.1.5 - Evidence for Wild Salmonid Health and Migration In writing this indicator, the SAD Steering Committee concluded that relevant data sets on wild government sources or from research institutions. Therefore farms are not responsible for cor make management decisions related to minimizing potential impact on those wild stocks.				
		This Indicator requires collection and understanding of general data for the major watersheds should relate to the wild fish stock level, which implies that the population is more or less isolifish stock-level definition. However, it must be recognized that each jurisdiction may have slig	ated from other stocks of the same species and hence self-sustaining. A "conservation u			
	Indicator: In areas with wild salmonids [37], evidence of	For purposes of these standards, "areas with wild salmonids" are defined as areas within 75 kilometers of a wild salmonid migration route or habitat. This definition is expected to encompass all, or nearly all, of salmon-gro hemisphere [39]. Potentially affected species in these areas are salmonids (i.e. including all trout species). Where a species is not natural to a region (e.g. Atlantic or Pacific Salmon in Chile) the areas are not considered as "salmon have escaped from farms and established themselves as a reproducing species in "the wild".				
	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	Farms do not need to conduct research on migration routes, timing and the health of wild stor populations in their region, as such information is needed to make management decisions rela and reporting.				
	Requirement: Yes					

	Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in [32]	a. Identify all salmonid species that naturally occur within 75 km of the farm through literature search or by consulting with a reputable authority. If the farm is not in an area with wild salmonids, then 3.1.5b and c do not apply. b. For species listed in 3.1.5a, compile best available information on migration routes, migration timing (range of months for juvenile outmigration and returning salmon), life history timing for coastal resident salmonids, and stock productivity over time in major waterways within 50 km of the farm. c. From data in 3.1.5b, identify any sensitive periods for wild salmonids (e.g. periods of outmigration of juveniles) within 50 km of the farm.	inships to that companies during the integration mile. There are multiple websites and fishery bulletins available showing the active runs of salmon for the wild fisheries for commercial purposes. DFO control lice testing and call for more testing during the smolt migration. The DFO identify the sensitive periods which is primarily based on the pink salmon. The most critical is the Pinks and the Chums as they are the smallest smolt. The critical period is defined as March 1st to June 30th. There is a website called kintama.com that has active research graphs showing migration routes of tagged salmon smolts during migration.	Compliant		
Footnote		ards, "areas with wild salmonids" are defined as areas within 75 kilometers of a wild salmonid ion routes, timing and the health of wild stocks under this standard if general information is alr	eady available. Farms must demonstrate an understanding of this information at the ger			
		needed to make management decisions re	elated to minimizing potential impact on those stocks.			
		a. Inform the CAB if the farm operates in an area of wild salmonids. If not, then Indicator 3.1.6 does not apply.	The company has informed the CAB that they operate in a wild Salmonid area. All the reports on outward smolt number assessments are available on the Marine Harvest website. Beach seines are used up to 30 smolts from each station are retained for submission to the Centre for Aquatic Health Sciences to verify the species of fish and			
	Indicator: In areas of wild salmonids, monitoring of sea lice levels on wild out-migrating salmon juveniles or on coastal sea trout or Arctic char, with results made publicly available. See requirements in Appendix III-1.	b. Keep records to show the farm participates in monitoring of sea lice on wild salmonids.	lice. Quantification of all species caught is carried out. In the Port Hardy area, the sampling is carried out by the Tlatlasikwala first nation and Pacificus Biological services also based in Port Hardy. Sampling took place at the end of May for the			
3.1.6	Requirement: Yes	c. Provide the CAB access to documentation which is sufficient for the auditor to evaluate whether the methodology used for monitoring of sea lice on wild salmonids is in compliance with the requirements in Appendix III-1.	second set of samples and will be available in July online. The ASC has had the link to the information sent to them with data and reports covering a number of years.	Compliant		
	Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in [32]	d. Make the results from 3.1.6b easily publicly available (e.g. posted to the company's website) within eight weeks of completion of monitoring.				
		e. Submit to ASC the results from monitoring of sea lice levels on wild salmonids as per Appendix VI.				
		a. Inform the CAB if the farm operates in an area of wild salmonids. If not, then Indicator 3.1.7 does not apply.	Wild salmonids are in the area. Sensitive periods are set as March 1st to June 30th under pacific regulation 7.3. There is a variance request in place number 141 for Canada which allows up to 3 motiles. Records of lice levels are retained and posted with DFO and weekly on the companies dashboard. Counts from this week have been			
	Indicator: In areas of wild salmonids, maximum on-farm lice levels during sensitive periods for wild fish [39]. See detailed requirements in Appendix II, subsection 2.	 Establish the sensitive periods [39] of wild salmonids in the area where the farm operates. Sensitive periods for migrating salmonids is during juvenile outmigration and approximately one month before. 	the highest so far in the sensitive, and the counts are 0.725. The site is due to begin harvest in August.			
3.1.7	Requirement: 0.1 mature female lice per farmed fish Applicability: All farms operating in areas with wild salmonids except farms that release no water as noted in [32]	c. Maintain detailed records of monitoring on-farm lice levels (see 3.1.4) during sensitive periods as per Appendix II-2.		Compliant		NA VR 141
		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).				
Footnote		[39] Sensitive periods for migrating salmonids is dur	ing juvenile outmigration and approximately one month before.			
		Criterion 3.2 Introductio				
			Auditor Evaluation (Required CAB Actions):			
	Note: For the purposes of Indicator 3.2.1, "area" is defined as a contiguous body of water with the bio-chemical and temperature profile required to support the farmed species' life and reproduction (e.g. the Northern Atlantic Coast of the U.S. and Canada Appendix II-1A elaborates further on this definition: "The boundaries of an area should be defined, taking into account the zone in which key cumulative impacts on wild populations may occur, water movement and other relevant aspects of ecosystem structure and function." The intent is that the area relates to the spatial extent that is likely to be put at risk from the non-native salmon. Areas will only rarely coincide with the boundaries of countries.					
		a. Inform the CAB if the farm produces a non-native species. If not, then Indicator 3.2.1 does not apply.	Marine Harvest Canada farm Atlantic Salmon Salmo salar on this site. According to the Fisheries and Oceans Canada website, Atlantic salmon were first farmed in British Columbia in the 1980's. There are reports of Atlantic Salmon being introduced for angling purposes back as early as 1874 to California and 1905 to British Columbia. The DFO website shows that the first importation of salmon eggs for farming came from Scotlandia 1905, who 130,000 came were inspected. All or imports a loaned on the			
	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	b. Provide documentary evidence that the non-native species was widely commercially produced in the area before June 13, 2012.	Scotland in 1985 when 130,000 eggs were imported. All egg imports are logged on the website as public reporting on Aquaculture.			

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Fig. 1. The control agic of 1. The control ag	3.2.1	Salmon standard					
Applicability of Primer scorpt is morted in Equ. If the first insurance shows we show the Section of the Control of the Contr		Requirement: Yes [40]					
Total Continue and the main form grant and continue and state the main continue and st		requirement. Tes [40]	farm uses only 100% sterile fish that includes details on accuracy of sterility effectiveness.				
In the production scenario does the character of the production scenario does the character of the production scenario does the production of the character of the production scenario districts of the production of the character of the production of the pr		Applicability: All farms except as noted in [40]			Compliant		
Companies Comp			d. If the farm cannot provide evidence for 3.2.1b or 3.2.1c, provide documented evidence				
Discontinues access are proposed and make of by deficiency depoted on the second process and an important of the second process and an							
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Forms to when had the years to demonstration complication with the standard (i.e. Auth complicated in the same and the above of the year is a justification with a ACT claims Standard (i.e. Auth complicated in the same and the storage places is their age and the storage places is the same and the storage places in their age and the storage places in their age and the storage places in being produced, except the same and the storage places in their age and the storage places in their age and the storage places in being produced, except the same and the storage places in the same and the storage places in being produced, except the storage places in places and places and places in places and places in places and places in places and places and places in places and places and places in places and places			Instruction to Clients for Indicator 3.2.2 - Exceptions to Allow Production of Non-Native Spe	cies			
selection of the content of an intervent point of the personal of indicator 12.2.7 jurisdiction in the part of the personal of indicator 12.2.7 jurisdiction in 12.2.1 production (Appendix 17.2.2.7 jurisdiction) in 12.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.			Farms have had five years to demonstrate compliance with this standard from the time of pub	olication of the ASC Salmon Standard (i.e. full compliance by June 13, 2017).			
Natic: For the purpose of indicator 3.2.2. "Jurisdiction" is defined the same is "level" in 3.2.1. **Replacement** Tes and nation specific is being preferred, eventually completed without the species within the family jurisdiction and these parts for years and an extraction of the species within the family jurisdiction and these ventual territorial MAX for traverse [27] **Replacement** Tes Applicability**. All [30] **Applicability**. All [30]					ions are met: era	adication would be impossible	e or have detrimental
Indicator: If a non-notive species to bring produced, evidence of sizentific research [41] completed within the past five years that messages the rise of establishment of the post five years that messages to bring to produced, and the ASC of the species in production (Appendix VI). Individual to ASC for review (A) and the ASC of the species in production (Appendix VI). Individual to ASC for review (A) and the ASC of the form produces a non-seles species if rist, then indicator 3.2.2 does not select a real transportation of the form and the production of apply. Individual to ASC for review (A) and the ASC of the form produces a non-seles species if rist, then indicator 3.2.2 does not select a real transportation of apply. Individual to ASC for review (A) and the ASC of the form produces a non-seles species if rist, then indicator 3.2.2 does not select a real transportation of apply. Individual to ASC for review (A) and the ASC of the form produces a non-seles species if rist, then indicator 3.2.2 does not select a review of the form indicator of apply. Indicator: (In a non-select species and indicator in the ASC will penaltic the continue to species and indicator in the form of the collect form and indicator in the form of the collect form indicator indicator in the form of the collect form indicator indicator in the collect form indicator			environmental effects, the introduction took place prior to 1995 (when the convention on Bio	nogical Diversity (CDD) was ratified); the species is fully self-sustaining.			
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evidence of scientific research (14) Completed within the part for higher and applications and the part of higher and applications and applications are seen and the following place of the part of higher and applications and the part of higher and applications are designed and analysis, and undergo per rowless. Footools [43] filter review demonstrates there is increased risk, the SAC will prohibit the certification of farming of non-native salmon in that princtions and the part of higher and applications are memory and applications. The ACC will prohibit the certification winder this part of higher and applications are memory and applicat							
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Applicability: All [43] Compliant Co		Daniel Company		the difficult beach serie salveys. Broads conduct dawn salveys and no relatives have			
Footnote C. If yes 0.3.L. Diprocince with the residence of research respect to the peace within the parts years that three/great that three/great with the farm only request are complicin to 3.2.2 (toe below).		Requirement: Yes					
Indicator: Use of non-native species for sea lise control. Footnote Foot		Applicability: All [43]	c. If yes to 3.2.2b, provide evidence of scientific research completed within the past five years	Harvest are located.	6		
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.					Compilant		
all three conditions specified in instruction box above. e. Submit evidence from 3.2.2c to ASC for review. e. Submit evidence from 3.2.2c to ASC for review.			Alternatively, the farm may request an exemption to 3.2.2c (see below).				
all three conditions specified in instruction box above. e. Submit evidence from 3.2.2c to ASC for review. e. Submit evidence from 3.2.2c to ASC for review.				1			
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Footnote [42] If the review demonstrates there is increased risk, the ASC will consider prohibiting the certification of farming of non-native salmon in that jurisdiction under this standard. In the event that the risk tools demonstrate "high" risks, the SAD expects that the ASC will prohibit the certification of farming of non-native salmon in that jurisdiction. The ASC intends to bring this evidence into future revision of the standard and those results taken forward into the revision process. [43] Farms are exempt from this standard if they are in a jurisdiction where the non-native species became established prior to farming activities in the area and the following three conditions are met cradication would be impossible or have detrimental environmental effects; the introduction took place prior to 1993 (when the Convention on Biological Diversity (CBD) was ratified); the species is fully self-sustaining. None are used though there is research taking place using native species only. None are used though there is research taking place using native species only. None are used though there is research taking place using native species only. None are used though there is research taking place using native species only. None are used though there is research taking place using native species only. None are used though there is research taking place using native species only. None are used though there is research taking place using native species only. None are used though there is research taking place using native species only. None are used though there is research taking place using native species only. None are used though there is research taking place using native species only. None are used though there is research taking place using native species only. None are used though there is research taking place using native species only. None are used though there is research taking place using native species only. None are used though there is research taking place using native species only.			an three conditions specified in instruction box above.				
42 If the review demonstrates there is increased risk, the ASC will consider prohibiting the certification of farming of non-native salmon in that jurisdiction. The ASC intends to bring this evidence into future revision of the standard and those results taken forward into the revision process. 43 Farms are exempt from this standard if they are in a jurisdiction where the non-native species became established prior to 1993 (when the Convention on Biological Diversity (CBD) was ratified); the species is fully self-sustaining. Applicability: All			e. Submit evidence from 3.2.2c to ASC for review.				
Footnote salmon in that jurisdiction. The ASC intends to bring this evidence into future revision of the standard and those results taken forward into the revision process. Footnote [43] Farms are exempt from this standard if they are in a jurisdiction where the non-native species became established prior to farming activities in the area and the following three conditions are met: eradication would be impossible or have detrimental environmental effects; the introduction took place prior to 1993 (when the Convention on Biological Diversity (CBD) was ratified); the species is fully self-sustaining. None are used though there is research taking place using native species only. Indicator: Use of non-native species for sea lice control for on-farm management purposes B. Maintain records (e.g. invoices) to show the species name and origin of all fish used by the farm for purposes of sea lice control. Requirement: None Applicability: All C. Collect documentary evidence or first hand accounts as evidence that the species used is not non-native to the region. Ciriterion 3.3 Introduction of transgenic species Ciriterion 3.3 Introduction (Required CBA Actions): Global and Marine Harvest Clanada statement on the fact that the company does not	Footnote		[41] The research must at a minimum include multi-year monitoring for non-r	l native farmed species, use credible methodologies and analysis, and undergo peer review	<i>1</i> .		
Footnote salmon in that jurisdiction. The ASC intends to bring this evidence into future revision of the standard and those results taken forward into the revision process. Footnote [43] Farms are exempt from this standard if they are in a jurisdiction where the non-native species became established prior to farming activities in the area and the following three conditions are met: eradication would be impossible or have detrimental environmental effects; the introduction took place prior to 1993 (when the Convention on Biological Diversity (CBD) was ratified); the species is fully self-sustaining. None are used though there is research taking place using native species only. Indicator: Use of non-native species for sea lice control for on-farm management purposes Requirement: None Applicability: All Confidence or first hand accounts as evidence that the species used is not non-native to the region. Confidence Criteria (Required Client Actions): Compliance Criteria (Required Client Actions): Adultor Evaluation (Required CAB Actions): Global and Marine Harvest Canada statement on the fact that the company does not		[42] If the review demonstrates there is increased risk the	a ASC will consider prohibiting the certification of farming of non-native salmon in that invisded	ion under this standard. In the event that the rick tools demonstrate "high" ricks, the SAI) expects that the	ASC will prohibit the certific	ation of farming of non-nativo
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a. Inform the CAB if the farm uses fish (e.g. cleaner fish or wrasse) for the control of sea lice. Indicator: Use of non-native species for sea lice control for on-farm management purposes Requirement: None Applicability: All C. Collect documentary evidence or first hand accounts as evidence that the species used is not non-native to the region. Criterion 3.3 Introduction of transgenic species Criterion 3.3 Introduction of transgenic species Criterion 3.4 Introduction of transgenic species Global and Marine Harvest Canada statement on the fact that the company does not			1993 (when the Convention on Biological Dive				
Indicator: Use of non-native species for sea lice control for on-farm management purposes 8.2.3 Requirement: None Applicability: All			to form the CAD Sale from the Sale form	None are used though there is research taking place using native species only.			
for on-farm management purposes b. Maintain records (e.g. invoices) to show the species name and origin of all fish used by the farm for purposes of sea lice control. Requirement: None			a. Inform the CAB if the farm uses fish (e.g. cleaner fish or wrasse) for the control of sea lice.				
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Criterion 3.3 Introduction of transgenic species Compliance Criteria (Required Client Actions): Auditor Evaluation (Required CAB Actions): Global and Marine Harvest Canada statement on the fact that the company does not		Applicability: All					
Compliance Criteria (Required Client Actions): Global and Marine Harvest Canada statement on the fact that the company does not			not non-native to the region.				
Compliance Criteria (Required Client Actions): Global and Marine Harvest Canada statement on the fact that the company does not							
Global and Marine Harvest Canada statement on the fact that the company does not							
			Compliance Criteria (Required Client Actions):				
use transperior surmon. Outco war opin zozo.			a. Prepare a declaration stating that the farm does not use transgenic salmon.				
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	Indicator: Use of transgenic [44] salmon by the farm	b. Maintain records for the origin of all cultured stocks including the supplier name, address				
3.3.1	Requirement: None	and contact person(s) for stock purchases.		Compliant		
	Applicability: All	c. Ensure purchase documents confirm that the culture stock is not transgenic.				
	[44] Transgenic: Containing genes altered by insertion of					
Footnote	DNA from an unrelated organism. Taking genes from one species and inserting them into another species to get					
		Criterion 3.4 Compliance Criteria (Required Client Actions):	Escapes [47] Auditor Evaluation (Required CAB Actions):			
Footnote			rency requirements for 3.4.1, 3.4.2 and 3.4.3.			
		a. Maintain monitoring records of all incidences of confirmed or suspected escapes, specifying date, cause, and estimated number of escapees.	There have been no escapes. There have been no reported escapes in this most recent production cycle. DFO publishes escape reports and goes back as far as 2011. The site now uses Saphire nets that have ID tags and net history certificates.			
		b. Aggregate cumulative escapes in the most recent production cycle.				
	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]).				
3.4.1	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.		Compliant		0
		e. Submit escape monitoring dataset to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).				
Footnote	[46] Farms shall report all	escapes; the total aggregate number of escapees per production cycle must be less than 300 fish	n. Data on date of escape episode(s), number of fish escaped and cause of escape episod	e shall be report	ed as outlined in Appendix VI.	
Footnote	[47] A rare exception to this standard may be made for	an escape event that is clearly documented as being outside the farm's control. Only one such farm is applying for certification. The farmer must demonstrate that there was no reaso			arts at the beginning of the pr	oduction cycle for which the
		A. Maintain records of accuracy of the counting technology used by the farm at times of stocking and harvest. Records include copies of spec sheets for counting machines and common estimates of error for hand-counts.	The counters used are VAKI and Aquascan counters. Records are kept of counting accuracy on a freshwater production spreadsheet. There is a new SOP reference FWZ69 Called Smolt Inventory control. This provides guidelines as to which count to use. The smolt suppliers are all MHC owned. Both off-site and onsite counting takes			
	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).	place. There are various counts such as Hatchery book count, Hatchery dispatch count and smolt input count as well as vaccination counts. Witnessed calibration not done as there was no well boat available on the day of the site visit. Protocols on calibration are used from the VAKI manual and followed by relevant staff. VAKI manuals can be accessed online at www.vaki.com. Spec sheet			
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).	from VAKI was stating an accuracy of over 99%. The Aquascan states accuracy between 98% and 100%. Common estimates of error for any hand-counts.	Compliant		>98%
	Applicability: All					
		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).				
Footnote			ng machines and through common estimates of error for any hand-counts.			
		Instruction to Clients for Indicator 3.4.3 - Calculation of Estimated Unexplained Loss The Estimated Unexplained Loss (EUL) of fish is calculated at the end of each production cycle	as follows:			
		EUL = (stocking count) - (harvest count) - (mortalities) - (recorded escapes)	as follows.			
		Units for input variables are number of fish (i.e. counts) per production cycle. Where possible	farms should use the pre-smalt vaccination count as the steeking count. This formula is	adanted from fo	otnote 59 of the ASC Salman	itandard
		onites for imput variables are number of fish (i.e. counts) per production cycle. Where possible	rainis sinouna use the pre-stituit vaccination count as the stocking count. This formula is	auapteu irom 10	princte 39 of the A3C 3almon 5	scanuard.
l	I					

3.4.3	Indicator: Estimated unexplained loss [49] of farmed salmon is made publicly available Requirement: Yes Applicability: All	a. Maintain detailed records for mortalities, stocking count, harvest count, and escapes (as per 3.4.1). b. Calculate the estimated unexplained loss as described in the instructions (above) for the most recent full production cycle. For first audit, farm must demonstrate understanding of calculation and the requirement to disclose EUL after harvest of the current cycle. c. Make the results from 3.4.3b available publicly. Keep records of when and where results were made public (e.g. date posted to a company website) for all production cycles. d. Submit estimated unexplained loss to ASC as per Appendix VI for each production cycle.	All records of mortalities are maintained and recorded both on the site and on the Aquafarmer database. This is the first audit, and the farm keeps all records and intends to post final figures on the company's website following harvest.	Compliant			
Footnote	[49] Calculated	l at the end of the production cycle as: Unexplained loss = Stocking count – harvest count – mo	tallities – other known escapes. Where possible, use of the pre-smolt vaccination count a	es the stocking co	unt is preferred.		
3.4.4	Indicator: Evidence of escape prevention planning and related employee training, including: net strength testing; appropriate net mesh size; net traceability; system robustness; predator management; record keeping and reporting of risk events (e.g., holes, infrastructure Issues, handling errors, reporting and follow up of escape events); and worker training on escape prevention and counting technologies Requirement: Yes Applicability: All	a. Prepare an Escape Prevention Plan and submit it to the CAB before the first audit. This plan may be part of a more comprehensive farm planning document as long as it addresses all required elements of Indicator 3.4.4. b. If the farm operates an open (net pen) system, ensure the plan (3.4.4a) covers the following areas: - net strength testing; - appropriate net mesh size; - net traceability; - system robustness; - predator management; - record keeping; - reporting risk events (e.g. holes, infrastructure issues, handling errors); - planning of staff training to cover all of the above areas; and - planning of staff training on escape prevention and counting technologies. c. If the farm operates a closed system, ensure the plan (3.4.4a) covers the following areas: - system robustness; - predator management; - record keeping; - reporting risk events (e.g. holes, infrastructure issues, handling errors); - planning of staff training to cover all of the above areas; and - planning of staff training on escape prevention and counting technologies. d. Maintain records as specified in the plan. e. Train staff on escape prevention planning as per the farm's plan.	As part of the PAR licence (Pacific aquaculture regulation), there is an escape prevention plan SW 951. There is also a fish containment plan for SW 962. There is an Escape response flowchart located on the sites. The staff were questioned on the escape prevention plan, and there is regular training for onsite staff in relation to implementing the escape prevention plan including annual DATS training online. The site has an escape prevention box with netting, needles, weights, ropes etc. and once per year, there is a mock escape drill. There is specific site escape risk analysis detailing the history of escapes in the area. Escape prevention kits and they were inspected on the site. Cameras that pan and tilt are in each cage with excellent resolutions monitor the behaviour of the fish. The diver checks the cages every 60 days on every site and updates the net log as to what was found. The minimum allowed strength for nets is 156lbs above and 169lbs below the water line. Net ID G120-1705 on Pen 2 was reviewed. It was manufactured in March 2017 and had an initial strength of 400lbs breaking tension.	Compliant			
PRINCIPLE 4	PRINCIPLE 4: USE RESOURCES IN AN ENVIRONMENTALLY EFFICIENT AND RESPONSIBLE MANNER Criterion 4.1 Traceability of raw materials in feed						
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Requir	ed CAB Actions):			

Instruction to Clients for Indicators 4.1.1 through 4.4.2 - Sourcing of Responsibly Produced Salmon Feeds

Farms must show that all feeds used by the farm are produced in compliance with the requirements of Indicators 4.1.1 through 4.4.4. To do so, farms must obtain documentary evidence that the feed producers (see note 1) are audited at regular intervals by an independent auditing firm or a conformity assessment body against a recognized standard which substantially incorporate requirements for traceability. Acceptable certification schemes include GlobalGAP or other schemes that have been acknowledged by the ASC (see 4.1.1c below). Results from these audits shall demonstrate that feed producers have robust information about their production and supply chains. Declarations from the feed producer that are provided to the farm to demonstrate compliance with these indicators must be supported by the audits. Farms must also show that all of their feed producers are duly informed of the requirements of the ASC Salmon Standard relating to sourcing of responsibly produced salmon feed (see 4.1.1b below).

In addition to the above, farms must also show that their feed suppliers comply with the more detailed requirements for traceability and ingredient sourcing that are specified under indicators 4.1.1 through 4.4.2. The ASC Salmon Standard allows farms to use one of two different methods to demonstrate compliance of feed producers:

Method #1: Farms may choose to source feed from feed producers who used only those ingredients allowed under the ASC Salmon Standards during the production of a given batch of feed. For example, the farm may request its feed supplier to produce a batch of feed according to farm specifications. Audits of the feed producer will independently verify that manufacturing processes are in compliance with ASC requirements.

Method #2: Farms may choose to source feed from feed producers who demonstrate compliance using a "mass-balance" method. In this method, feed producers show that the balance of all ingredients (both amount and type) used during a given feed production period meets ASC requirements. However, mixing of ingredients into the general slios and production lines is allowed during manufacturing. Audits of the feed producer will independently verify that manufacturing processes are in compliance with ASC requirements. The mass balance method can be applied, for example, to integrated feed production companies that handle all steps of feed manufacturing (purchasing of raw materials, processing to finished feed, and sales) under the management the management of a single legal entity.

Note 1: The term "feed producer" is used here to identify the organization that produces the fish feed (i.e. it is the "feed manufacturer"). In most cases, the organization supplying feed to a farm (i.e. the feed supplier) will be the same organization that produced the feed, but there may be instances where feed suppliers are not directly responsible for feed production. Regardless of whether the farm sources feeds directly from a feed producer or indirectly through an intermediary organization, it remains the farm's obligation to show evidence that all feeds used are in compliance with requirements.

		a. Maintain detailed records of all feed suppliers and purchases including contact information and purchase and delivery records.	The only feed supplier is Skretting. The location of the production unit is in Richmond BC. Skretting Canada has GAA BAP certification that includes a traceability element. Valid until 21st October 2018. Cert number IN17/50409. SGS is the CB. Skretting also		There are no quantities of Marine Ingredients shown to allow verification, which				
		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.	assures traceability for all ingredients that make up more than 1% of the feed. The feed company has declared that they will be adopting method 2 for mass balance. They also hold certifications such as ISO 9001:2008, HACCP, BAP and Skrettings		the ASC compliant ingredients are greater than the non-ASC compliant				
	Indicator: Evidence of traceability, demonstrated by the feed producer, of feed ingredients that make up more than 1% of the feed [50].	c. For each feed producer used by the farm, confirm that an audit of the producer was recently done by an audit firm or CAB against an ASC-acknowledged certification scheme. Obtain a copy of the most recent audit report for each feed producer.	Nutrace internal standard.		Marine Ingredients based on option 2 and Mass balance.				
	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.		Minor					
		e. Obtain declaration from feed supplier(s) stating that the company can assure traceability of all feed ingredients that make up more than 1% of the feed to a level of detail required by the ASC Salmon Standard [50].							
		-							
Footnote	[50] Traceability shall be at a level of detail that permits t	<u> </u>	covered under this standard.	manufacturers v	vill need to supply the farm wit	th third-party documentation			
		Criterion 4.2 Use of w Compliance Criteria (Required Client Actions):	ild fish for feed [51] Auditor Evaluation (Required CAB Actions):						
Footnote			parency requirements for 4.2.1 and 4.2.2.						
	Instruction to Clients for Indicator 4.2.1 - Calculation of FFDRm Farms must calculate the Fishmeal Forage Fish Dependency Ration (FFDRm) according to formula presented in Appendix IV-1 using data from the most recent complete production cycle. Farms must also show that they have maintained sufficient information in order to make an accurate calculation of FFDRm as a cutlined below. For first audits, farms may be exempted from compliance with Indicator 4.2.1 for the most recent complete production cycle (i.e. if the FFDRm of the most recent crop was > 1.2) if the farm can satisfactorily demonstrate to the auditor that: - the client understands how to accurately calculate FFDRm; - the client maintains all information needed to accurately calculate FFDRm (i.e. all feed specs for > 6 months) for the current production cycle; and - the client can show how feed used for the current production cycle will ensure that the farm will meet requirements at harvest (i.e. FFDRm < 1.2).								
4.2.1	Indicator: Fishmeal Forage Fish Dependency Ratio (FFDRm) for grow-out (calculated using formulas in Appendix IV- 1) Requirement: < 1.2	Davagatage of fishment in each formulation used.	Feed supplier declaration is signed and dated April 25th, 2018. Percentage of fishmeal used, and oil is on the feed bags. Trimmings included 0.39% for meal and 0.56% for oil for feed used in 2017. The 14 species listed are not broken down into whole fish fishery source and trimmings fishery sources. This is the sites first audit, and the 2015- year class is being used to demonstrate compliance. The current eFCR for the site is 1.137. The FFDRm is 0.35.						
	Applicability: All	b. For FFDRm calculation, exclude fishmeal derived from rendering of seafood by-products (e.g. the "trimmings" from a human consumption fishery.		Compliant		0.35			

		c. Calculate eFCR using formula in Appendix IV-1 (use this calculation also in 4.2.2 option #1).				
		d. Calculate FFDRm using formulas in Appendix IV-1.				
		e. Submit FFDRm to ASC as per Appendix VI for each production cycle.				
		Note: Under Indicator 4.2.2, farms can choose to calculate FFDRo (Option #1) or EPA & DHA (i	option #2). Farms do not have to demonstrate that they meet both threshold values. Clie	ent shall inform th	e CAB which option they will	use.
		a. Maintain a detailed inventory of the feed used as specified in 4.2.1a.	Inventory of the Skretting feed used is in place for every site. Trimmings were not excluded from the original calculation, but this was remedied at audit. Option 1 is			
	Indicator: Fish Oil Forage Fish Dependency Ratio (FFDRo) for grow-out (calculated using formulas in Appendix IV-1), or, Maximum amount of EPA and DHA from direct marine	b. For FFDRo and EPA+DHA calculations (either option #1 or option #2), exclude fish oil derived from rendering of seafood by-products (e.g. the "trimmings" from a human consumption fishery.	being used. The FFDRo is currently 1.55 and results have been submitted to ASC.			
4.2.2	sources [52] (calculated according to Appendix IV-2) Requirement: FFDRo < 2.52	c. Inform the CAB whether the farm chose option #1 or option #2 to demonstrate compliance with the requirements of the Standard.		Compliant		1.55
	or (EPA + DHA) < 30 g/kg feed	d. For option #1, calculate FFDRo using formulas in Appendix IV-1 and using the eFCR calculated under 4.2.1c.		ССПРИСП		1.55
	Applicability: All	e. For option #2, calculate amount of EPA + DHA using formulas in Appendix IV-2.				
		f. Submit FFDRo or EPA & DHA to ASC as per Appendix VI for each production cycle.				
		also be an educate and belonging the Polympian and also and also be an educate the first and also are also as a		use the quality at	the time of landing does not	most official regulations with
Footnote		regard to fish suit trimmings can be excluded from the calculation as long as the origin of the trimmings is not ar				-
Footnote		regard to fish suit trimmings can be excluded from the calculation as long as the origin of the trimmings is not ar Criterion 4.3 Source of	able for human consumption. y species that are classified as critically endangered, endangered or vulnerable in the IUI marine raw materials	CN Red List of Thre		-
Footnote		regard to fish suit trimmings can be excluded from the calculation as long as the origin of the trimmings is not ar	able for human consumption. y species that are classified as critically endangered, endangered or vulnerable in the IU	CN Red List of Thre		-
		regard to fish suit trimmings can be excluded from the calculation as long as the origin of the trimmings is not ar Criterion 4.3 Source of	able for human consumption. y species that are classified as critically endangered, endangered or vulnerable in the IUI marine raw materials	CN Red List of Thre		-
4.3.1	Fishmeal and fish oil that are produced from Indicator: Timeframe for all fishmeal and fish oil used in feed to come from fisheries [53] certified under a scheme that is an ISEAL member [54] and has guidelines that specifically promote responsible environmental	regard to fish suitrimmings can be excluded from the calculation as long as the origin of the trimmings is not ar Criterion 4.3 Source of Compliance Criteria (Required Client Actions):	able for human consumption. y species that are classified as critically endangered, endangered or vulnerable in the IUI marine raw materials	CN Red List of Thre		-
4.3.1	Fishmeal and fish oil that are produced from Indicator: Timeframe for all fishmeal and fish oil used in feed to come from fisheries [53] certified under a scheme that is an ISEAL member [54] and has guidelines that specifically promote responsible environmental management of small pelagic fisheries	regard to fish suitrimmings can be excluded from the calculation as long as the origin of the trimmings is not ar Criterion 4.3 Source of Compliance Criteria (Required Client Actions):	able for human consumption. y species that are classified as critically endangered, endangered or vulnerable in the IUI marine raw materials	CN Red List of Thre		-
4.3.1	Indicator: Timeframe for all fishmeal and fish oil used in feed to come from fisheries [53] certified under a scheme that is an ISEAL member [54] and has guidelines that specifically promote responsible environmental management of small pelagic fisheries Requirement: Not required Applicability: N/A	regard to fish suitrimmings can be excluded from the calculation as long as the origin of the trimmings is not ar Criterion 4.3 Source of Compliance Criteria (Required Client Actions):	able for human consumption. y species that are classified as critically endangered, endangered or vulnerable in the IUI marine raw materials Auditor Evaluation (Requir	CN Red List of Three	eatened Species (http://www	-
4.3.1	Indicator: Timeframe for all fishmeal and fish oil used in feed to come from fisheries [53] certified under a scheme that is an ISEAL member [54] and has guidelines that specifically promote responsible environmental management of small pelagic fisheries Requirement: Not required Applicability: N/A	regard to fish suitrimmings can be excluded from the calculation as long as the origin of the trimmings is not ar Criterion 4.3 Source of Compliance Criteria (Required Client Actions): NA standard and standard 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries	able for human consumption. y species that are classified as critically endangered, endangered or vulnerable in the IUI marine raw materials Auditor Evaluation (Requir	cn Red List of Three red CAB Actions):	eatened Species (http://www	-
4.3.1 Footnote	Indicator: Timeframe for all fishmeal and fish oil used in feed to come from fisheries [53] certified under a scheme that is an ISEAL member [54] and has guidelines that specifically promote responsible environmental management of small pelagic fisheries Requirement: Not required Applicability: N/A	regard to fish suit trimmings can be excluded from the calculation as long as the origin of the trimmings is not are Criterion 4.3 Source of Compliance Criteria (Required Client Actions): NA Standard and standard 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries [54] Meets ISEAL guidelines as demonstrated through full membership in the Instruction to Clients for Indicator 4.3.2 - FishSource Score of Fish Used in Feed To determine FishSource scores of the fish species used as feed ingredients, do the following: go to http://www.fishsource.org/ - Type the species into the search function box and choose the accurate fishery -confirm that the search identifies the correct fishery then scroll down or click on the link from For first audits, farms must have scoring records that cover all feeds purchased during the pre-	able for human consumption. y species that are classified as critically endangered, endangered or vulnerable in the IU marine row materials Auditor Evaluation (Requir s, or fisheries where the catch is directly reduced (including krill) and not to by-products ISEAL Alliance, or equivalent as determined by the Technical Advisory Group of the ASC in the menu on the left reads "Scores" vious 6-month period.	cn Red List of Three red CAB Actions):	eatened Species (http://www.	-
4.3.1 Footnote	Indicator: Timeframe for all fishmeal and fish oil used in feed to come from fisheries [53] certified under a scheme that is an ISEAL member [54] and has guidelines that specifically promote responsible environmental management of small pelagic fisheries Requirement: Not required Applicability: N/A	regard to fish suit trimmings can be excluded from the calculation as long as the origin of the trimmings is not are criterion 4.3 Source of Compliance Criteria (Required Client Actions): NA standard and standard 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries [54] Meets ISEAL guidelines as demonstrated through full membership in the Instruction to Clients for Indicator 4.3.2 - FishSource Score of Fish Used in Feed To determine FishSource scores of the fish species used as feed ingredients, do the following: -go to http://www.fishsource.org/ -type the species into the search function box and choose the accurate fishery -confirm that the search identifies the correct fishery then scroll down or click on the link from	able for human consumption. y species that are classified as critically endangered, endangered or vulnerable in the IU marine row materials Auditor Evaluation (Requir s, or fisheries where the catch is directly reduced (including krill) and not to by-products ISEAL Alliance, or equivalent as determined by the Technical Advisory Group of the ASC in the menu on the left reads "Scores" vious 6-month period.	cn Red List of Three red CAB Actions):	eatened Species (http://www.	-
4.3.1 Footnote Footnote	Indicator: Timeframe for all fishmeal and fish oil used in feed to come from fisheries [53] certified under a scheme that is an ISEAL member [54] and has guidelines that specifically promote responsible environmental management of small pelagic fisheries Requirement: Not required Applicability: N/A	regard to fish suit trimmings can be excluded from the calculation as long as the origin of the trimmings is not are Criterion 4.3 Source of Compliance Criteria (Required Client Actions): NA Standard and standard 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries [54] Meets ISEAL guidelines as demonstrated through full membership in the Instruction to Clients for Indicator 4.3.2 - FishSource Score of Fish Used in Feed To determine FishSource scores of the fish species used as feed ingredients, do the following: go to http://www.fishsource.org/ - Type the species into the search function box and choose the accurate fishery -confirm that the search identifies the correct fishery then scroll down or click on the link from For first audits, farms must have scoring records that cover all feeds purchased during the pre-	able for human consumption. y species that are classified as critically endangered, endangered or vulnerable in the IU marine raw materials Auditor Evaluation (Requir Auditor Evaluation (Requir Auditor Evaluation (Requir Sequence of Sequenc	cn Red List of Three red CAB Actions):	eatened Species (http://www.	-
Footnote Footnote	Indicator: Timeframe for all fishmeal and fish oil used in feed to come from fisheries [53] certified under a scheme that is an ISEAL member [54] and has guidelines that specifically promote responsible environmental management of small pelagic fisheries Requirement: Not required Applicability: N/A [53] Thi	regard to fish suit trimmings can be excluded from the calculation as long as the origin of the trimmings is not ar Criterion 4.3 Source of Compliance Criteria (Required Client Actions): NA Standard and standard 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries [54] Meets ISEAL guidelines as demonstrated through full membership in the Instruction to Clients for Indicator 4.3.2 - FishSource Score of Fish Used in Feed To determine FishSource scores of the fish species used as feed ingredients, do the following: -go to http://www.fishSource.org/ -type the species into the search function box and choose the accurate fishery -confirm that the search identifies the correct fishery then scroll down or click on the link from For first audits, farms must have scoring records that cover all feeds purchased during the pre Note: Indicator 4.3.2 applies to fishmeal and oil from forage fisheries, pelagic fisheries, or fish a. Record FishSource score for each species from which fishmeal or fish oil was derived and	able for human consumption. y species that are classified as critically endangered, endangered or vulnerable in the IU marine raw materials Auditor Evaluation (Requir s, or fisheries where the catch is directly reduced (including krill) and not to by-products I SEAL Alliance, or equivalent as determined by the Technical Advisory Group of the ASC in the menu on the left reads "Scores" vious 6-month period. eries where the catch is directly reduced (including krill) and not to by-products or trimin Skretting provided a table for the species and sources of fishmeal and fish oil and	cn Red List of Three red CAB Actions):	eatened Species (http://www.	

	Applicability: All		Concern according to the assessment.	ı	1	
	Applicability: All	c. If the species is not on the website it means that a FishSource assessment is not available. Client can then take one or both of the following actions: 1. Contact FishSource via Sustainable Fisheries Partnerships to identify the species as a priority for assessment. 2. Contract a qualified independent third party to conduct the assessment using the FishSource methodology and provide the assessment and details on the third party qualifications to the CAB for review.	Concern according to the assessment.	Compliant		
Footnote			logy. See 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 c systems are in compliance. Alternatively, farms may show that their feed producers comply w and Fish Oil Organization's Global Standard for Responsible Supply or to the Marine Stewards For the first audit, a minimum of 6 months of data on feed is required and evidence shall related to the first audit of the	ith traceability requirements of Indicator 4.3.3 by submitting evidence that suppliers, an ap Council Chain of Custody Standard. e to species used in said dataset.			
	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. b. Ensure evidence covers all the species used (as consistent with 4.3.2a, 4.2.1a, and 4.2.2a).	Skretting Vancouver is certified under the BAP standard for feed mills. Valid until 21/10/2018. BAP require a verified chain of custody for compliance to their standard for feed ingredients. This is found in indicators 3.1 to 3.5 of the BAP standard.	Compliant		
4.3.4	Indicator: Feed containing fishmeal and/or fish oil originating from by-products [56] or trimmings from IUU [57] catch or from fish species that are categorized as vulnerable, endangered or critically endangered, according to the IUCN Red List of Threatened Species [58], whole fish and fish meal from the same species and family as the species being farmed Requirement: None [59] Applicability: All except as noted in [59]	a. Compile and maintain, consistent with 4.2.1a and 4.2.2a, a list of the fishery of origin for all fishmeal and fish oil originating from by-products and trimmings. b. Obtain a declaration from the feed supplier stating that no fishmeal or fish oil originating from IUU catch was used to produce the feed. 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). 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].	The 14 species listed are not broken down into whole fish fishery source and trimmings fishery sources. Skretting has a signed declaration that there are no IUU species used. Under Nutreco supplier code of conduct. This is also a BAP requirement that the feed company is certified to. Skretting (Nutreco), under their sustainable procurement policy for Marine products version 2010 state under section 7 criteria that the supplier needs to provide documentation that the meal and oil are IFFO R5 or M5C certified. Under section 7.2 of the Skretting (Nutreco) criteria for Marine raw materials, it mentions Endangered or critically endangered but not vulnerable. Skretting has further provided a table showing that no vulnerable species are registered in their list of supplied raw material.	Compliant		
4.3.5	Indicator: Presence and evidence of a responsible sourcing policy for the feed manufacturer for marine ingredients that includes a commitment to continuous improvement of source fisheries Requirement: Yes Applicability: All	a. Request a link to a public policy from the feed manufacturer stating the company's support of efforts to shift feed manufacturers purchases of fishmeal and fish oil to fisheries certified under a scheme that is an ISEAL member and has guidelines that specifically promote responsible environmental management of small pelagic fisheries and committing to continuous improvement of source fisheries. b. Prepare a letter stating the farm's intent to source feed containing fishmeal and fish oil originating from fisheries certified under the type of certification scheme noted in indicator 4.3.1. c. Compile a list of the origin of all fish products used as feed ingredients in all feed.	Nutreco has a supplier code of conduct that is online that includes no IUU and declares responsible sourcing and commitment to the environment. Marine Harvest has a policy on sustainable Salmon feed. It states no IUU and sources must come from MSC or IFFO RS schemes or the fish source scores being greater than 6. It's dated April 2018. The 14 species listed by the feed manufacturer includes Gulf Menhaden (Gulf of Mexico), Blue Whiting (NE Atlantic) and Bullet Tuna (Eastern Pacific).	Compliant		
Footnote	[56] Trimmings are defined as by-produ	ucts when fish are processed for human consumption or if whole fish is rejected for use of hum		tions with regard	to fish suitable for human co	nsumption.
Footnote			Unregulated and Unreported. f Nature reference can be found at http://www.iucnredlist.org/.			
Footnote	[59] For species listed as "vulnerable" by IUCN, an exce	eption is made if a regional population of the species has been assessed to be not vulnerable in	a National Red List process that is managed explicitly in the same science-based way as a conducted using IUCN's methodology and demonstrates that the population is not vulne		nere a National Red List doesn	't exist or isn't managed in

		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Requir	ed CAB Actions):	1	
			The Client uses only Skretting feed. Skretting is part of the Nutreco group, and a			
	Indicator: Presence and evidence of a responsible sourcing policy for the feed manufacturer for feed	a. Compile and maintain a list of all feed suppliers with contact information. (See also 4.1.1a)	vendor policy is in a place where all suppliers must sign applicable declarations guaranteeing source. Skretting is BAP certified until October 2018. BAP has a similar principle in place.			
4.4.1	ingredients that comply with recognized crop moratoriums [60] and local laws [61] Requirement: Yes	b. Obtain from each feed manufacturer a copy of the manufacturer's responsible sourcing policy for feed ingredients showing how the company complies with recognized crop moratoriums and local laws.	р тире трасе.	Compliant		
	Applicability: All	c. Confirm that third party audits of feed suppliers (4.1.1c) show evidence that supplier's responsible sourcing policies are implemented.				
Footnote	[60] Moratorium: A period of time in which there is a su	I spension of a specific activity until future events warrant a removal of the suspension or issues	I regarding the activity have been resolved. In this context, moratoriums may refer to sus regions.	pension of the gr	owth of defined agricultural o	rops in defined geographical
Footnote	[61] Specifically, the policy shall include that vegetable ing	gredients, or products derived from vegetable ingredients, must not come from areas of the An specific require	nazon Biome that were deforested after July 24, 2006, as geographically defined by the Ement shall be reconsidered.	Brazilian Soy Mora	atorium. Should the Brazilian	Soy Moratorium be lifted, this
		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.	Declaration from the supplier Archer Daniels Midland Company with a membership status of RTRS0066 and is found on the Responsible soy website. The source region is South America of the countries Brazil, Bolivia, Paraguay, Uruguay and Argentina.			
	Indicator: Percentage of soya or soya-derived ingredients in the feed that are certified by the Roundtable for Responsible Soy (RTRS) or equivalent [62]	b. Prepare a letter stating the farm's intent to source feed containing soya certified under the RTRS (or equivalent)				
4.4.2	Requirement: 100%	c. Notify feed suppliers of the farm's intent (4.4.2b).		Compliant		
	Applicability: All	d. Obtain and maintain declaration from feed supplier(s) detailing the origin of soya in the feed.				
		e. Provide evidence that soya used in feed is certified by the Roundtable for Responsible Soy (RTRS) or equivalent [62]				
Footnote		[62] Any alternate certification scheme would have to be	approved as equivalent by the Technical Advisory Group of the ASC.		•	•
	Indicator: Evidence of disclosure to the buyer [63] of the salmon of inclusion of transgenic [64] plant raw material,	Obtain from feed supplier(s) a declaration detailing the content of soya and other plant raw materials in feed and whether it is transgenic.	There is a supplier quality assurance letter, sent to customers, that is used to declare that there may be transgenic plant material used in the feed.			
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]	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.		Compliant		
	Applicability: All	c. Inform ASC whether feed contains transgenic ingredients (yes or no) as per Appendix VI for each production cycle.				
Footnote	[63] Th	ne company or entity to which the farm or the producing company is directly selling its product	. This standard requires disclosure by the feed company to the farm and by the farm to t	he buyer of their	salmon.	
Footnote	[6	4] Transgenic: Containing genes altered by insertion of DNA from an unrelated organism. Takin		ssed in the offspr	ing.	
Footnote			transparency requirement for 4.4.3.			
		Criterion 4.5 Non-biologic	al waste from production Auditor Evaluation (Require	and CAR Antin		
	Indicator: Presence and evidence of a functioning policy	Compliance Criteria (Required Client Actions): a. Prepare a policy stating the farm's commitment to proper and responsible treatment of non-biological waste from production. It must explain how the farm's policy is consistent with best practice in the area of operation.	Materials storage and waste disposal plan SFW 963. The declaration is in the plan, and it refers to the ASC standard. Each site has separation of waste for recycling purposes,	EU CAD ACTIONS):		
4.5.1	for proper and responsible [66] treatment of non- biological waste from production (e.g., disposal and recycling)	b. Prepare a declaration that the farm does not dump non-biological waste into the ocean.		Compliant		
	Requirement: Yes Applicability: All	c. Provide a description of the most common production waste materials and how the farm ensures these waste materials are properly disposed of.				
		d. Provide a description of the types of waste materials that are recycled by the farm.				
Footnote	[66] Proper and responsible disposal will vary based on	facilities available in the region and remoteness of farm sites. Disposal of non-biological waste	shall be done in a manner consistent with best practice in the area. Dumping of non-bio disposal.	logical waste into	the ocean does not represen	nt "proper and responsible"

4.5.2	Indicator: Evidence that non-biological waste (including net pens) from grow-out site is either disposed of properly or recycled Requirement: Yes Applicability: All	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) b. Provide a description of the types of waste materials that are recycled by the farm. (See also 4.5.1d) c. Inform the CAB of any infractions or fines for improper waste disposal received during the previous 12 months and corrective actions taken d. Maintain records of disposal of waste materials including old nets and cage equipment.	Nets ropes and other production equipment are also included but would not occur as often as the packing materials. The company has a website for used equipment sales www.marineharvestusedsales.com. Disposal forms are used by the site managers when equipment is being de-commissioned, and there is a column for describing what happens to the item, i.e. either sold, recycled or donated. Equipment is also donated to enhancement facilities. There was no evidence of waste build up on the site. Waste such as pallets, feed bags and plastic is returned to shore via the feed delivery boat. The delivery docket supplied with the feed itemises the removal quantities of wooden pallets, plastic liners and feed bags.	Compliant		
		Criterion 4.6 Energy consumption and g	reenhouse gas emissions on farms [67]		1	
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote		[67] See Appendix VI for transpa	rency requirements for 4.6.1, 4.6.2 and 4.6.3.			
		Instruction to Clients for Indicator 4.6.1 - Energy Use Assessment Indicator 4.6.1 requires that farms must have an assessment to verify energy consumption. The correspond to the sources of Scope 1 and Scope 2 emissions (see Appendix V-1). Energy use concurages companies to integrate energy use assessments across the board in the company. For the purposes of calculating energy consumption, the duration of the production cycle is the portion of energy consumption if possible. Quantities of energy (fuel and electricity) are conformore details).	orresponding to Scope 3 emissions (i.e. the energy used to fabricate materials that are pure the state of the	irchased by the f	farm) is not required. Howeve	r the SAD Steering Committee eak out the grow-out stage
4.6.1	Indicator: Presence of an energy use assessment verifying the energy consumption on the farm and representing the whole life cycle at sea, as outlined in Appendix V-1 Requirement: Yes, measured in kilojoule/t fish produced/production cycle Applicability: All	a. Maintain records for energy consumption by source (fuel, electricity) on the farm throughout each production cycle. b. Calculate the farm's total energy consumption in kilojoules (kj) during the last production cycle. 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.	There is a GHG Energy assessment excel sheet used. Items recorded include petrol, Diesel and gas (propane). The total energy used to the end of February was 1,901,095,236 Kj.	Compliant		
	Indicator: Records of greenhouse gas (GHG [68])	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. It that is applying for certification. However the SAD Steering Committee encourages companies Protocol Corporate Standard or ISO 14064-1 (see Appendix V-1 for more details). Note: For the purposes of this standard, GHGs are defined as the six gases listed in the Kyoto I a. Maintain records of greenhouse gas emissions on the farm.	to integrate GHG accounting practices across the board in the company. Verification ma	y be done by in	ternal or external assessment	following either the GHG
4.6.2	emissions [69] on farm and evidence of an annual GHG assessment, as outlined in Appendix V-1 Requirement: Yes Applicability: All	b. At least annually, calculate all scope 1 and scope 2 GHG emissions in compliance with Appendix V-1. c. For GHG calculations, select the emission factors which are best suited to the farm's operation. Document the source of those emissions factors. d. For GHG calculations involving conversion of non-CO ₂ gases to CO ₂ equivalents, specify the Global Warming Potential (GWP) used and its source. e. Submit results of GHG calculations (4.6.2d) to ASC as per Appendix VI at least once per year.	Scotland has been using these calculations for longer than Canada. The greenhouse gas emissions to date are 129,107 mT/Co2 equivalents	Compliant		

		f. Ensure that the farm undergoes a GHG assessment as outlined in Appendix V-1 at least annually.				
Footnote	[68] For the purposes	of this standard, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxide	(CO ₂); methane (CH4); nitrous oxide (N ₂ O); hydrofluorocarbons (HFCs); perfluorocarbon	ns (PFCs); and sul	phur hexafluoride (SF ₆).	
Footnote		[69] GHG emissions must be recorded using recogn	ized methods, standards and records as outlined in Appendix V.			
4.6.3	Indicator: Documentation of GHG emissions of the feed [70] used during the previous production cycle, as outlined in Appendix V, subsection 2 Requirement: Yes Applicability: All	Instruction to Clients for Indicator 4.6.3 - GHG Emissions of Feed Indicator 4.6.3 requires that farms document the greenhouse gas emissions (GHG) associated information from their feed supplier(s) and thereafter maintain a continuous record of Feed G entire previous production cycle. Therefore farms should inform their feed supplier(s) and: - the farm provides its feed suppliers with detailed information about the requirements includ - the farm explain what analyses must be done by feed suppliers; and - the farm explains to feed suppliers what documentary evidence will be required by the farm Note1: Farms may calculate GHG emissions of feed using the average raw material compositio by-lot basis. Note2: Feed supplier's calculations must include Scope 1, Scope 2, and Scope 3 GHG emissions a. Obtain from feed supplier(s) a declaration detailing the GHG emissions of the feed (per kg feed).	iHG emissions throughout all production cycles. This requirement applies across the ing a copy of the methodology outlined in Appendix V, subsection 2; to demonstrate compliance. In used to produce the salmon (by weight) rather than using feed composition on a lot-			
		b. Multiply the GHG emissions per unit feed by the total amount of feed from each supplier used in the most recent completed production cycle. C. If client has more than one feed supplier, calculate the total sum of emissions from feed by summing the GHG emissions of feed from each supplier. d. Submit GHG emissions of feed to ASC as per Appendix VI for each production cycle.		Compliant		
Footnote	[70] GHG emissions from feed can be given based on the		s for the volume of feed they used in the prior production cycle.	er is responsible	for calculating GHG emissions	per unit feed. Farm site then
		Criterion 4.7 Non-therapeur				
Footnote		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote Footnote		Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not us	Auditor Evaluation (Required CAB Actions): e antifoulants shall be considered exempt from standards under Criterion 4.7.			
Footnote Footnote		Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not us	Auditor Evaluation (Required CAB Actions):			
	Indicator: For farms that use copper-treated nets [73], evidence that nets are not cleaned [74] or treated in situ	Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not us [72] See Appendix VI for transpar a. Prepare a farm procedure for net cleaning and treatment that describes techniques,	Auditor Evaluation (Required CAB Actions): e antifoulants shall be considered exempt from standards under Criterion 4.7. ency requirements for 4.7.1, 4.7.3 and 4.7.4.			
	Indicator: For farms that use copper-treated nets [73], evidence that nets are not cleaned [74] or treated in situ in the marine environment	Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not use [72] See Appendix VI for transpar a. Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping.	Auditor Evaluation (Required CAB Actions): e antifoulants shall be considered exempt from standards under Criterion 4.7. ency requirements for 4.7.1, 4.7.3 and 4.7.4.	N/A		
Footnote	evidence that nets are not cleaned [74] or treated in situ in the marine environment	Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not us [72] See Appendix VI for transpar a. Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping. b. Maintain records of antifoulants and other chemical treatments used on nets.	Auditor Evaluation (Required CAB Actions): e antifoulants shall be considered exempt from standards under Criterion 4.7. ency requirements for 4.7.1, 4.7.3 and 4.7.4.	N/A		
Footnote	evidence that nets are not cleaned [74] or treated in situ in the marine environment Requirement: Yes	Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not us [72] See Appendix VI for transpar a. Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping. b. Maintain records of antifoulants and other chemical treatments used on nets. c. Declare to the CAB whether copper-based treatments are used on nets. d. If copper-based treatments are used, maintain documentary evidence (see 4.7.1b) that	Auditor Evaluation (Required CAB Actions): e antifoulants shall be considered exempt from standards under Criterion 4.7. ency requirements for 4.7.1, 4.7.3 and 4.7.4.	N/A		
Footnote	evidence that nets are not cleaned [74] or treated in situ in the marine environment Requirement: Yes Applicability: All farms except as noted in [71] [73] Under the SAD, "copper-treated net" is defined as a n	Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not us [72] See Appendix VI for transpar a. Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping. b. Maintain records of antifoulants and other chemical treatments used on nets. c. Declare to the CAB whether copper-based treatments are used on nets. d. If copper-based treatments are used, maintain documentary evidence (see 4.7.1b) that farm policy and practice does not allow for heavy cleaning of copper-treated nets in situ. e. Inform ASC whether copper antifoulants are used on farm (yes or no) as per Appendix VI	Auditor Evaluation (Required CAB Actions): e antifoliants shall be considered exempt from standards under Criterion 4.7. ency requirements for 4.7.1, 4.7.3 and 4.7.4. No copper nets are used. This was verified during the site visit.	pased facility since		
4.7.1	evidence that nets are not cleaned [74] or treated in situ in the marine environment Requirement: Yes Applicability: All farms except as noted in [71] [73] Under the SAD, "copper-treated net" is defined as an point prior in their lifespan, been to	Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not us [72] See Appendix VI for transpar a. Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping. b. Maintain records of antifoulants and other chemical treatments used on nets. c. Declare to the CAB whether copper-based treatments are used on nets. d. If copper-based treatments are used, maintain documentary evidence (see 4.7.1b) that farm policy and practice does not allow for heavy cleaning of copper-treated nets in situ. e. Inform ASC whether copper antifoulants are used on farm (yes or no) as per Appendix VI for each production cycle.	Auditor Evaluation (Required CAB Actions): e antifoliants shall be considered exempt from standards under Criterion 4.7. ency requirements for 4.7.1, 4.7.3 and 4.7.4. No copper nets are used. This was verified during the site visit. liant) during the previous 18 months, or has not undergone thorough cleaning at a land-thas elapsed as in this definition. This will allow farms to move away from use of copper to the components of the compo	pased facility sinc without immedia	tely having to purchase all nev	w nets.
4.7.1	evidence that nets are not cleaned [74] or treated in situ in the marine environment Requirement: Yes Applicability: All farms except as noted in [71] [73] Under the SAD, "copper-treated net" is defined as an point prior in their lifespan, been to	Compliance Criteria (Required Client Actions): [71] Closed production systems that do not use nets and do not us [72] See Appendix VI for transpar a. Prepare a farm procedure for net cleaning and treatment that describes techniques, technologies, use of off-site facilities, and record keeping. b. Maintain records of antifoulants and other chemical treatments used on nets. c. Declare to the CAB whether copper-based treatments are used on nets. d. If copper-based treatments are used, maintain documentary evidence (see 4.7.1b) that farm policy and practice does not allow for heavy cleaning of copper-treated nets in situ. e. Inform ASC whether copper antifoulants are used on farm (yes or no) as per Appendix VI for each production cycle. et that has been treated with any copper-containing substance (such as a copper-based antifoureated with copper may still consider nets as untreated so long as sufficient time and cleaning leads to the complex of th	Auditor Evaluation (Required CAB Actions): e antifoliants shall be considered exempt from standards under Criterion 4.7. ency requirements for 4.7.1, 4.7.3 and 4.7.4. No copper nets are used. This was verified during the site visit. liant) during the previous 18 months, or has not undergone thorough cleaning at a land-thas elapsed as in this definition. This will allow farms to move away from use of copper to the components of the compo	pased facility sinc without immedia	tely having to purchase all nev	w nets.

I	I.		1		l i	
	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.				
F		[75] Treatment must have appropriate technologic	in place to continue conservit the form uses conservit control note			
Footnote		Note: If the benthos throughout and immediately outside the full AZE is hard bottom, provide	in place to capture copper if the farm uses copper-treated nets.			
		Note. If the pentilos throughout and infinediately outside the full AZE is hard bottom, provide	evidence to the CAB and request an exemption from mulcator 4.7.3 (see 2.1.1c).			
	Indicator: For farms that use copper nets or copper-					
	treated nets, evidence of testing for copper level in the	a. Declare to the CAB whether the farm uses copper nets or copper-treated nets. (See also	No copper nets are used. This was verified during the site visit.			
	sediment outside of the AZE, following methodology in Appendix I-1	4.7.1c). If "no", Indicator 4.7.3 does not apply.				
4.7.3		b. If "yes" in 4.7.3a, measure and record copper in sediment samples from the reference				
	Requirement: Yes	stations specified in 2.1.1d and 2.1.2c which lie outside the AZE.		N/A		
	Applicability: All farms except as noted in [71]		1			
		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.				
		to test copper retermiseaments from 177.55.	No copper nets are used. This was verified during the site visit.			
		a. Inform the CAB whether:	No copper nets are used. This was verified during the site visit.			
	Indicator: Evidence that copper levels [76] are < 34 mg	farm is exempt from Indicator 4.7.4 (as per 4.7.3a), or Farm has conducted testing of copper levels in sediment.				
	Cu/kg dry sediment weight,	2) Farm has conducted testing or copper levels in sediment.				
	or, in instances where the Cu in the sediment exceeds 34 mg	b. Provide evidence from measurements taken in 4.7.3b that copper levels are < 34 mg Cu/kg				
	Cu/kg dry sediment weight, demonstration that the Cu dry sediment weight. concentration falls within the range of background concentrations as measured at three reference sites in concentrations are concentrations.	dry sediment weight.				
		c. If copper levels in 4.7.4b are ≥ 34 mg Cu/kg dry sediment weight, provide evidence the				
4.7.4	the water body	farm tested copper levels in sediments from reference sites as described in Appendix I-1 (also		N/A		
	Requirement: Yes	see Indicators 2.1.1 and 2.1.2).				
	requirement. Tes	d. Analyze results from 4.7.4c to show the background copper concentrations as measured at				
	Applicability: All farms except as noted in [71] and	 a. Analyze results from 4.7.4c to show the background copper concentrations as measured at three reference sites in the water body. 				
	excluding those farms shown to be exempt from Indicator 4.7.3		1			
		e. Submit data on copper levels in sediments to ASC as per Appendix VI for each production cycle.				
Footnote		[/6] According to testing required under 4.7.3. The standards related to testing	of copper are only applicable to farms that use copper-based nets or copper-treated net No antifouling is used.	IS.		
	Indicator: Evidence that the type of biocides used in net	a. Identify all biocides used by the farm in net antifouling.	into antiousing is asca.			
	antifouling are approved according to legislation in the European Union, or the United States, or Australia					
4.7.5		b. Compile documentary evidence to show that each chemical used in 4.7.5a is approved		N/A		
	Requirement: Yes					
	Requirement: Yes Applicability: All farms except as noted in [71]	according to legislation in one or more of the following jurisdictions: the European Union, the United States, or Australia.				
DRINGS	Applicability: All farms except as noted in [71]	according to legislation in one or more of the following jurisdictions: the European Union, the United States, or Australia.				
PRINCIPLE 5	·	according to legislation in one or more of the following jurisdictions: the European Union, the United States, or Australia.	nealth of formed fish [77]			
	Applicability: All farms except as noted in [71]	according to legislation in one or more of the following jurisdictions: the European Union, the United States, or Australia. LLY RESPONSIBLE MANNER Criterion 5.1 Survival and Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
PRINCIPLE 5	Applicability: All farms except as noted in [71]	according to legislation in one or more of the following jurisdictions: the European Union, the United States, or Australia. LLY RESPONSIBLE MANNER Criterion 5.1 Survival and Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions): ency requirements for 5.1.4, 5.1.5 and 5.1.6.			
	Applicability: All farms except as noted in [71] MANAGE DISEASE AND PARASITES IN AN ENVIRONMENTA Indicator: Evidence of a fish health management plan for	according to legislation in one or more of the following jurisdictions: the European Union, the United States, or Australia. LLY RESPONSIBLE MANNER Criterion 5.1 Survival and Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions): ency requirements for 5.1.4, 5.1.5 and 5.1.6. Fish health management plan dated October 2017. The updates include requirements		The Veterinary health plan	
	Applicability: All farms except as noted in [71] : MANAGE DISEASE AND PARASITES IN AN ENVIRONMENTA Indicator: Evidence of a fish health management plan for the identification and monitoring of fish diseases,	according to legislation in one or more of the following jurisdictions: the European Union, the United States, or Australia. LLY RESPONSIBLE MANNER Citterion 5.1 Survival and Compliance Criteria (Required Client Actions): [77] See Appendix VI for transpa 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	Auditor Evaluation (Required CAB Actions): ency requirements for 5.1.4, 5.1.5 and 5.1.6. Fish health management plan dated October 2017. The updates include requirements for moving fish and refers to the SOP's SW955, SW 138, SW 819 and FW 260. The plan is submitted to the DFO for part of the licence requirements. The Fish health plan was		advises the removal of	
Footnote	Applicability: All farms except as noted in [71] MANAGE DISEASE AND PARASITES IN AN ENVIRONMENTA Indicator: Evidence of a fish health management plan for the identification and monitoring of fish diseases, parasites and environmental conditions relevant for good fish health, including implementing corrective action	according to legislation in one or more of the following jurisdictions: the European Union, the United States, or Australia. LLY RESPONSIBLE MANNER Criterion 5.1 Survival and Compliance Criteria (Required Client Actions): [77] See Appendix VI for transpa a. Prepare a fish health management plan that incorporates components related to	Auditor Evaluation (Required CAB Actions): ency requirements for 5.1.4, 5.1.5 and 5.1.6. Fish health management plan dated October 2017. The updates include requirements for moving fish and refers to the SOP's SW955, SW 138, SW 819 and FW 260. The plan		advises the removal of moribund fish and they	
	Applicability: All farms except as noted in [71] : MANAGE DISEASE AND PARASITES IN AN ENVIRONMENTA Indicator: Evidence of a fish health management plan for the identification and monitoring of fish diseases, parasites and environmental conditions relevant for good	according to legislation in one or more of the following jurisdictions: the European Union, the United States, or Australia. LLY RESPONSIBLE MANNER Citterion 5.1 Survival and Compliance Criteria (Required Client Actions): [77] See Appendix VI for transpa 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	Auditor Evaluation (Required CAB Actions): ency requirements for 5.1.4, 5.1.5 and 5.1.6. Fish health management plan dated October 2017. The updates include requirements for moving fish and refers to the SOP's SW955, SW 138, SW 819 and FW 260. The plan is submitted to the DFO for part of the licence requirements. The Fish health plan was	Minor	advises the removal of moribund fish and they should be humanely euthanized however there	
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Footnote	Applicability: All farms except as noted in [71] MANAGE DISEASE AND PARASITES IN AN ENVIRONMENTA Indicator: Evidence of a fish health management plan for the identification and monitoring of fish diseases, parasites and environmental conditions relevant for good fish health, including implementing corrective action when required Requirement: Yes	according to legislation in one or more of the following jurisdictions: the European Union, the United States, or Australia. LLY RESPONSIBLE MANNER Citterion 5.1 Survival and Compliance Criteria (Required Client Actions): [77] See Appendix VI for transpa 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. b. Ensure that the farm's current fish health management plan was reviewed and approved by the farm's designated veterinarian [78].	Auditor Evaluation (Required CAB Actions): ency requirements for 5.1.4, 5.1.5 and 5.1.6. Fish health management plan dated October 2017. The updates include requirements for moving fish and refers to the SOP's SW955, SW 138, SW 819 and FW 260. The plan is submitted to the DFO for part of the licence requirements. The Fish health plan was	Minor	advises the removal of moribund fish and they should be humanely euthanized however there is no appropriate tool or method in place on site for	
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Footnote	[79] A fish	health manager is someone with professional expertise in managing fish health, who may wor	k for a farming company or for a veterinarian, but who does not necessarily have the auth	nority to prescrib	e medicine.	
5.1.3	Indicator: Percentage of dead fish removed and disposed of in a responsible manner Requirement: 100% [80] Applicability: All	a. Maintain records of mortality removals to show that dead fish are removed regularly and disposed of in a responsible manner. b. Collect documentation to show that disposal methods are in line with practices recommended by fish health managers and/or relevant legal authorities. c. For any exceptional mortality event where dead fish were not collected for post-mortem analysis, keep a written justification.	There are Mortality Collection and disposal procedure for Marine sites SW 124. This procedure cover classification, records and disease outbreak. Mortality records were reviewed on site during the visit. Mortalities are placed into totes and put onto a tote barge adjacent to the farm. The farm updates the information database on the number of totes full of morts and this triggers a pickup from the site if the mort totes are full. Following removal, to the land site, the mortalities are transported to a company called Seasoil / Foenix Forest technology and is used for a composted product called Seasoil. Removal of mortalities on May 26th. Invoice number 3615.	Compliant		
Footnote		[80] The SAD recognizes that not all mortality events will result in dead fish present for o	l collection and removal. However, such situations are considered the exception rather that	n the norm.		
5.1.4	Indicator: Percentage of mortalities that are recorded, classified and receive a post-mortem analysis Requirement: 100% [81] Applicability: All	Note: Farms are required to maintain mortality records from the current and two previous prit is recommended that farms maintain a compiled set of records to demonstrate compliance a. Maintain detailed records for all mortalities and post-mortem analyses including: - date of mortality and date of post-mortem analysis; - total number of mortalities and number receiving post-mortem analysis; - name of the person or lab conducting the post-mortem analyses; - qualifications of the individual (e.g. veteriarian (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). b. For each mortality event, ensure that post-mortem analyses are done on a statistically relevant number of fish and keep a record of the results. c. 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).		uired. Compliant		
		d. Using results from 5.1.3a-c, classify each mortality event and keep a record of those classifications. e. Provide additional evidence to show how farm records in 5.1.4a-d cover all mortalities from the current and previous two production cycles (as needed). f. Submit data on numbers and causes of mortalities to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).				
Footnote	[81] If on-site diagnosis is inconclusive, this standard requ	I uires off-site laboratory diagnosis. A qualified professional must conduct all diagnosis. One hund	l Ired percent of mortality events shall receive a post-mortem analysis, not necessarily eve be analyzed.	ry fish. A statistic	cally relevant number of fish f	from the mortality event shall
5.1.5	Indicator: Maximum viral disease-related mortality [82] on farm during the most recent production cycle Requirement: ≤ 10%	a. Calculate the total number of mortalities that were diagnosed (see 5.1.4) as being related to viral disease. 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.	There have been no viral mortalities reported in the just recently harvested crop. There have been 1.66% unexplained deaths in this cycle. N=4,578 fish.	Compliant		1.66%
	Applicability: All	c. Submit data on total mortality and viral disease-related mortality to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).				
Footnote		[82] Viral disease-related mortality count shall include unsp	recified and unexplained mortality as it could be related to viral disease.		ı	T
5.1.6	Indicator: Maximum unexplained mortality rate from each of the previous two production cycles, for farms with total mortality > 6%	a. Use records in 5.1.4a to calculate the unexplained mortality rate (%) for the most recent full production cycle. If rate was \$ 6%, then the requirement of 5.1.6 does not apply. If total mortality rate was > 6%, proceed to 5.1.6b. b. Calculate the unexplained mortality rate (%) for each of the two production cycles	This is the first audit for this site with no previous cycles in place.	N/A		NA.
	Requirement: ≤ 40% of total mortalities Applicability: All farms with > 6% total mortality in the	immediately prior to the current cycle. For first audit, calculation must cover one full production cycle immediately prior to the current cycle.		.40		.45

	most recent complete production cycle.	c. Submit data on maximum unexplained mortality to ASC as per Appendix VI for each]			
		production cycle.				
		Note: Farms have the option to integrate their farm-specific mortality reduction program into	the farm's fish health management plan (5.1.1).			
		a. Use records in 5.1.4a to assemble a time-series dataset on farm-specific mortalities rates and unexplained mortality rates.	The company uses a spreadsheet to recorded monthly mortalities in both percentage terms for count and Biomass. Done on an overall company basis and based on historical information and how each site has produced in the past. Updated regularly			
5.1.7	Indicator: A farm-specific mortalities reduction program that includes defined annual targets for reductions in mortalities and reductions in unexplained mortalities Requirement: Yes	b. Use the data in 5.1.7a and advice from the veterinarian and/or fish health manager to develop a mortalities-reduction program that defines annual targets for reductions in total mortality and unexplained mortality.	In real time. This is done company wide and per site. There is a companywide reduction plan and targets set for the production. The current target set for 2018 is for 90% survival. This is up from 2011 when the target set was 86%. Mort causes include Plankton, winter lesions and on some site jellyfish. It depends on the area. The plan indicates that that plankton mitigation measures and monitoring are taking	Compliant		
	Applicability: All	c. Ensure that farm management communicates with the veterinarian, fish health manager, and staff about annual targets and planned actions to meet targets.	place. Plans are broken down to their KPIs on each site. There are weekly tactical meetings for the staff on the site. There are bonuses set for each site depending on criteria such as survival, FCR, cost etc.	compliant		
		Criterion 5.2 Therape Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote			cy requirements for 5.2.1, 5.2.5, 5.2.6 and 5.2.10.			
	to Clients and CABs for Criterion 5.2 - Records Related to T		-yq enternal for States, States, States and States			
Indicator 5.2	2.1 requires that farms maintain detailed record of all chem	ical and therapeutant use. Those records maintained for compliance with 5.2.1, if all consolida	ted into a single place, can be used to demonstrate performance against subsequent Indi	cators (5.2.1 thro	ough 5.2.10) under Criterion 5	.2.
5.2.1	Indicator: On-farm documentation that includes, at a minimum, detailed information on all chemicals [84] and therapeutants used during the most recent production cycle, the amounts used (including grams per ton of fish produced), the dates used, which group of fish were treated and against which diseases, proof of proper dosing, and all disease and pathogens detected on the site Requirement: Yes Applicability: All	a. Maintain a detailed record of all chemical and therapeutant use that includes: - name of the veterinarian prescribing treatment; - product name and chemical name; - reason for use (specific disease) - date(s) of treatment; - amount (g) of product used; - dosage; - t of fish treated; - the WHO classification of antibiotics (also see note under 5.2.8); and - the supplier of the chemical or therapeutant. b. If not already available, assemble records of chemical and therapeutant use to address all points in 5.2.1a for the previous two production cycles. For first audits, available records must cover one full production cycle immediately prior to the current cycle. c. Submit information on therapeutant use (data from 5.2.1a) to ASC as per Appendix VI on an ongoing basis (i.e. at least once per year and for each production cycle).	intermediate site called Bell Harbour in the March 2017 and were moved to Heath in September /October. The fish had one Antibiotic treatment for Mouthrot while in Bell Island. While being moved from Bell to Heath the fish had a Hydrogen Peroxide treatment in the Well boat while on Heath they have had a SLICE treatment in December 2017.	Compliant		
Footnote		[84] Chemicals u	ised for the treatment of fish.			
5.2.2	Indicator: Allowance for use of therapeutic treatments that include antibiotics or chemicals that are banned [85] in any of the primary salmon producing or importing countries [86] Requirement: None Applicability: All	a. Prepare a list of therapeutants, including antibiotics and chemicals, that are proactively banned for use in food fish for the primary salmon producing and importing countries listed in [86]. b. Maintain records of voluntary and/or mandatory chemical residue testing conducted or commissioned by the farm from the prior and current production cycles.	Marine Harvest International has an extensive list of countries and their allowable and unallowable contaminants, drugs and microbiology and statutory limits for fish for all these growing areas. This database is updated when a country changes its limits by anybody in the Marine harvest organisation that has the current information. Every possible worldwide therapeutant is listed. Marine Harvest Canada also have a medicine positive list showing drugs allowable however in the case of Tribrissen even though its allowed MHC no longer uses it for the US market. Even though there is a positive list, it does not mean that the treatments are used. Following the use and a therapeutant, the Aquafarmer system locks in place the withdrawal time. Time is documented on the prescriptions. Maxxam in Vancouver carries out residue testing for each site prior to harvest. They are accredited to Standards Council of Canada no. 117. Testing is mandatory from CFIA.	Compliant		
Footnote	[85] "Banned" means proactively prohibited by a govern	nment entity because of concerns around the substance. A substance banned in any of the prin destination of the product. The SAD recomm	The properties or importing countries, as defined here, cannot be used in any samends that ASC maintain a list of a banned therapeutants.	lmon farm certifi	ed under the SAD, regardless	of country of production or
Footnote		<u> </u>	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 Requirement: 100% Applicability: All	a. Obtain prescription for all therapeutant use in advance of application from the farm veterinarian (or equivalent, see [78] for definition of veterinarian). b. Maintain copies of all prescriptions and records of veterinarian responsible for all medication events. Records can be kept in conjunction with those for 5.2.1 and should be kept for the current and two prior production cycles.	The farm has the original prescription located in the drug record file on site as required by its DFO operating licence. All the prescriptions for the current year class were reviewed during the site visit. Reviewed prescription DM18-007. Dated 6th February 2018. Hydrogen Peroxide treatment for AGD which was conducted on the well boat and a copy of the prescription is kept onsite.	Compliant		
		a. Incorporate withholding periods into the farm's fish health management plan (see 5.1.1a).	Health Canada website lists all drugs allowed for use in the culture of fish for food and includes details of withdrawal periods. http://www.hc-sc.gc.ca/dhp-mps/vet/legislation/pol/aquaculture_anim-eng.php			
5.2.4	Indicator: Compliance with all withholding periods after treatments Requirement: Yes	b. Compile and maintain documentation on legally-required withholding periods for all treatments used on-farm. Withholding period is the time interval after the withdrawal of a drug from the treatment of the salmon before the salmon can be harvested for use as food.	The prescriptions include the withdrawal period that is placed onto Aquafarmer so that the fish cannot be selected for harvest until the period has expired.	Compliant		
	Applicability: All	c. Show compliance with all withholding periods by providing treatment records (see 5.2.1a) and harvest dates for the most recent production cycle.				
5.2.5	Indicator: Maximum farm level cumulative parasiticide treatment index (PTI) score as calculated according to the formula in Appendix VII	a. Using farm data for therapeutants usage (52.1a) and the formula presented in Appendix VII, calculate the cumulative parasiticide treatment index (PTI) score for the most recent production cycle. Calculation should be made and updated on an ongoing basis throughout the cycle by farm manager, fish health manager, and/or veterinarian.	The calculation took into account all therapeutant use. The site has had one scoring treatment of SLICE, so the PTI is 3.2.	Compliant		3.2
5.2.5	Requirement: PTI score ≤ 13 Applicability: All	b. Provide the auditor with access to records showing how the farm calculated the PTI score.		Compilant		5.2
	Sphreamity. Cil	c. Submit data on farm level cumulative PTI score to ASC as per Appendix VI for each production cycle.				
		a. Review PTI scores from 5.2.5a to determine if cumulative PTI ≥ 6 in the most recent production cycle. If yes, proceed to 5.2.6b; if no, Indicator 5.2.6 does not apply.	PTI is below 6.			
	Indicator: For farms with a cumulative PTI ≥ 6 in the most recent production cycle, demonstration that parasiticide load [87] is at least 15% less that of the	b. Using results from 5.2.5 and the weight of fish treated (kg), calculate parasiticide load in the most recent production cycle [90].				
5.2.6	average of the two previous production cycles 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.		N/A		<6
		d. As applicable, submit data to ASC on parasiticide load for the most recent production cycle and the two previous production cycles (Appendix VI).				
Footnote	[87] Parasiticide load = Sum (kg of fish treated x	PTI). Reduction in load required regardless of whether production increases on the site. Farms		based on the cor	mbined parasiticide load of th	e consolidated sites.
	Indicator: Allowance for prophylactic use of antimicrobial treatments [88]	a. Maintain records for all purchases of antibiotics (invoices, prescriptions) for the current and prior production cycles.	Prescriptions available and reviewed on site as required by DFO and licencing. Logs are present. Treatments can be observed on the Aquafarmer program and the fish health files. Antibiotic use has been detailed elsewhere in the report. DFO also visit			
5.2.7	Requirement: None	b. Maintain a detailed log of all medication-related events (see also 5.2.1a and 5.2.3)	the sites for fish health purposes and review the prescriptions. The last visit was April 11th.	Compliant		
	Applicability: All	c. Calculate the total amount (g) and treatments (#) of antibiotics used during the current and prior production cycles (see also 5.2.9).				
Footnote			a pathogen or disease is present before prescribing medication.			
		Note 1: Farms have the option to certify only a portion of the fish or farm site when WHO-list audit and provide sufficient records giving details on which pens were treated and traceability.		ption, farms mus	st request an exemption from	the CAB in advance of the
		Note 2: It is recommended that the farm veterinarian review the WHO list [see 89] in detail a	nd be aware that the list is meant to show examples of members of each class of drugs, a	and is not inclusi	ve of all drugs.	
			In the state of th		ı	
	Indicator: Allowance for use of antibiotics listed as critically important for human medicine by the World	a. Maintain a current version of the WHO list of antimicrobials critically and highly important for human health [89].	The company uses the WHO website on critically important antimicrobials for human medicine. Checked florfenicol use and its classed as highly important and not of critical importance.			

	Health Organization (WHO [89])		1	1	1		
5.2.8	Treatti Organization (WHO [65])	b. If the farm has <u>not</u> used any antibiotics listed as critically important (5.2.8a) in the current					
	Requirement: None [90]	production cycle, inform the CAB and proceed to schedule the audit.					
	Applicability: All	c. If the farm has used antibiotics listed as critically important (5.2.8a) to treat any fish during the current production cycle, inform the CAB prior to scheduling audit.		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.					
Footnote		[89] The fifth edition of the WHO list of critically and highly important antimicrobials was re	leased in 2009 and is available at: http://www.who.int/foodsafety/publications/antimicro	obials-fifth/en/.			
Footnote			farm site, fish from pens that did not receive treatment are still eligible for certification.				
	Indicator: Number of treatments [91] of antibiotics over	Note: for the purposes of Indicator 5.2.9, "treatment" means a single course of medication giv		in one or more p	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.	There have been no antibiotic treatments in Heath Bay. The fish were on an intermediate site called Bell Harbour in the March 2017 and were moved to Heath in September /October. The fish had one Antibiotic treatment for Mouthrot while in Bell Harbour. While being moved from Bell to Heath the fish had a Hydrogen Peroxide treatment in the Well boat. While on Heath they have had a SUCE treatment in	Compliant		0	
	The state of the s	b. Calculate the total number of treatments of antibiotics over the most recent production cycle and supply a verifiable statement of this calculation.	December 2017.				
Footnote		[91] A treatment is a single course medication given to	address a specific disease issue and that may last a number of days.				
		Note: Indicator 5.2.10 requires that farms must demonstrate a reduction in load required, reg across multiple sites within an ABM can calculate reduction based on the combined antibiotic					
	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.	This site is in its first production cycle and has no previous history of Antibiotic load.				
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.		N/A		0	
	Applicability: All	c. Provide the auditor with calculations showing that the antibiotic load of the most recent production cycle is at least 15% less than that of the average of the two previous production cycles.					
		d. Submit data on antibiotic load to ASC as per Appendix VI (if applicable) for each production cycle.					
Footnote		[92] Antibiotic load = the sum of the tota	I amount of active ingredient of antibiotics used (kg).				
Footnote	[93] Reduction in load	required, regardless of whether production increases on the site. Farms that consolidate produ-	ction across multiple sites within an ABM can calculate reduction based on the combined	d antibiotic load o	of the consolidated sites.		
5.2.11	Indicator: Presence of documents demonstrating that the farm has provided buyers [94] of its salmon a list of all therapeutants used in production	a. Prepare a procedure which outlines how the farm provides buyers [94] of its salmon with a list of all therapeutants used in production (see 4.4.3b).	Once per year in January MHC supply their customers with a 'Suppliers Quality Assurance Certificate'. It mentions potential treatments and refers the reader to web links with the Canadian Food inspection agency for regulatory status. It lists the possible supply plants. On the bottom of the Suppliers QA certificate, there is a	Compliant			
	Requirement: Yes Applicability: All	b. Maintain records showing the farm has informed all buyers of its salmon about all therapeutants used in production.	statement from the Food Safety assurance technician to contact her if there are any questions. Her number and extension are included.	Compilant			
Footnote		[94] Buyer: The company or entity to which the	I farm or the producing company is directly selling its product.				
		Criterion 5.3 Resistance of parasites, virus	es and bacteria to medicinal treatments				
	Compliance Criteria (Required Client Actions): Auditor Evaluation (Required CAB Actions):						

		Instruction to Clients for Indicator 5.3.1 - Identifying the 'Expected Effect' of Medicinal Trea Indicator 5.3.1 requires that farms identify treatments that have not produced the expected of the expected o		ealth condition and type	of medicinal treatment.	Therefore farms and
		auditors will need to review the pre- and post-treatment condition of fish in order to underst		and type	a	
		Example: sea lice treatment with emamectin benzoate The SAD SC recommends that a typical baseline for effectiveness of emamectin benzoate is a minimum of 90 percent reduction in abundance of lice on the farmed fish. To determine whether treatment has produced the expected effect, farm and auditor must review pre- and post-treatment lice counts. If the calculated percent reduction in lice is < 90% then the treatment did not produce the expected effect and a bio-assay should be performed to determine whether sea lice have developed resistance.				
		Note: If field-based bio-assays for determining resistance are ineffective or unavailable, the fa assays were deemed ineffective and shall include results from the laboratory analyses of resis		mation. The auditor shall	record in the audit repo	ort why field-based bio-
	Indicator: Bio-assay analysis to determine resistance when two applications of a treatment have not produced the expected effect					
5.3.1	Requirement: Yes	a. In addition to recording all therapeutic treatments (5.2.1a), keep a record of all cases	Medicinal treatments other than Antibiotics are Emmamectin (Slice) and Hydrogen			
	Applicability: All	where the farm uses two successive medicinal treatments.	peroxide. One of the company's veterinarians was questioned during the audit, and he confirmed the bioassays have shown no resistance being formed. Neither has there been two successive treatment.			
		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.		Compliant		
		c. For any result of 5.3.1b that did not produce the expected effect, ensure that a bio-assay analysis of resistance is conducted.				
		d. Keep a record of all results arising from 5.3.1c.				
	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 resistance being formed.			
5.3.2	Requirement: Yes	b. When bio-assay tests show evidence that resistance has formed, keep records showing that the farm took one of two actions:		N/A		
		- used an alternative treatment (if permitted in the area of operation); or				
	Applicability: All	- immediately harvested all fish on site.				
		Criterian 5 4 Riosecus	ity management (95)			
		Criterion 5.4 Biosecur Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions): parency requirements for 5.4.2 and 5.4.4.			
Footnote	Indicator: Evidence that all salmon on the site are a	Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):			
Footnote 5.4.1	Indicator: Evidence that all salmon on the site are a single-year class [96] Requirement: 100% [97]	Compliance Criteria (Required Client Actions): [95] See Appendix VI for tran a. Keep records of the start and end dates of periods when the site is fully fallow after	Auditor Evaluation (Required CAB Actions): parency requirements for 5.4.2 and 5.4.4. The salmon on site were found to be one year class following the site visit. The fish	Compliant		
	single-year class [96]	Compliance Criteria (Required Client Actions): [95] See Appendix VI for tran a. Keep records of the start and end dates of periods when the site is fully fallow after harvest. b. Provide evidence of stocking dates (purchase receipts, delivery records) to show that there	Auditor Evaluation (Required CAB Actions): parency requirements for 5.4.2 and 5.4.4. The salmon on site were found to be one year class following the site visit. The fish	Compliant		
	single-year class [96] Requirement: 100% [97]	a. Keep records of the start and end dates of periods when the site is fully fallow after harvest. 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.	Auditor Evaluation (Required CAB Actions): parency requirements for 5.4.2 and 5.4.4. The salmon on site were found to be one year class following the site visit. The fish	·		
5.4.1	single-year class [96] Requirement: 100% [97] Applicability: All farms except as noted in [97]	a. Keep records of the start and end dates of periods when the site is fully fallow after harvest. 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. [96] Gaps of up to six months between inputs of smolts derived from the same strippin	Auditor Evaluation (Required CAB Actions): parency requirements for 5.4.2 and 5.4.4. The salmon on site were found to be one year class following the site visit. The fish were stocked in Spring 2017. g are acceptable as long as there remains a period of time when the site is fully fallow after the sallowed for: of water between units and no sharing of filtration systems or other systems that could so	er harvest. pread disease, or,	other effective treatmen	nt of effluent) .
5.4.1	single-year class [96] Requirement: 100% [97] Applicability: All farms except as noted in [97]	a. Keep records of the start and end dates of periods when the site is fully fallow after harvest. 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. [96] Gaps of up to six months between inputs of smolts derived from the same strippin [97] Exc 1) farm sites that have closed, contained production units where there is complete separation	Auditor Evaluation (Required CAB Actions): parency requirements for 5.4.2 and 5.4.4. The salmon on site were found to be one year class following the site visit. The fish were stocked in Spring 2017. g are acceptable as long as there remains a period of time when the site is fully fallow after eption is allowed for: of water between units and no sharing of filtration systems or other systems that could of saures for waste to ensure there is no discharge of live biological material to the natural The site does not suspect any unidentifiable transmissible agents. There have been no unexplained mortality events. There is a red and green system in place that asses the mortality trends. There were no large or unusual mortality events, and all mortality is diagnosed. DFO must be informed if 4000kg of mort's or 2% of the inventory in 24 hours or 10000kg or more or 5% of total fish in 5 days of mortalities occur. Hatcheries	er harvest. pread disease, or,	other effective treatmen	nt of effluent) .
5.4.1	single-year class [96] Requirement: 100% [97] Applicability: All farms except as noted in [97]	a. Keep records of the start and end dates of periods when the site is fully fallow after harvest. 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. [96] Gaps of up to six months between inputs of smolts derived from the same strippin farm sites that have closed, contained production units where there is complete separation ion, a pre-entry disease screening protocol, dedicated quarantine capability and biosecurity me 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 <	Auditor Evaluation (Required CAB Actions): parency requirements for 5.4.2 and 5.4.4. The salmon on site were found to be one year class following the site visit. The fish were stocked in Spring 2017. g are acceptable as long as there remains a period of time when the site is fully fallow after the state of the state of the salmond of the state of the salmond of the state of the salmond of th	er harvest. pread disease, or,	other effective treatmen	nt of effluent) .
Footnote Footnote	single-year class [96] Requirement: 100% [97] Applicability: All farms except as noted in [97] 2) farm sites that have ≥95% water recirculat Indicator: Evidence that if the farm suspects an unidentifiable transmissible agent, or if the farm	a. Keep records of the start and end dates of periods when the site is fully fallow after harvest. 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. [96] Gaps of up to six months between inputs of smolts derived from the same strippin [97] Exc 1) farm sites that have closed, contained production units where there is complete separation ion, a pre-entry disease screening protocol, dedicated quarantine capability and biosecurity me a. For mortality events logged in 5.1.4a, show evidence that the farm promptly evaluated each to determine whether it was a statistically significant increase over background mortality rate on a monthly basis [98]. The accepted level of significance (for example, p < 0.05) should be agreed between farm and CAB. b. For mortality events logged in 5.1.4a, record whether the farm did or did not suspect (yes	Auditor Evaluation (Required CAB Actions): parency requirements for 5.4.2 and 5.4.4. The salmon on site were found to be one year class following the site visit. The fish were stocked in Spring 2017. are acceptable as long as there remains a period of time when the site is fully fallow after the salmond of the salmond of time when the site is fully fallow after the salmond of	er harvest. pread disease, or,	other effective treatmen	nt of effluent) .

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	Requirement: Yes Applicability: All	d. If required, ensure that the farm takes and records the following steps: 1) Report the issue to the ABM and to the appropriate regulatory authority; 2) Increase monitoring and surveillance [99] on the farm and within the ABM; and 3) Promptly (within one month) make findings publicly available.				
		e. As applicable, submit data to ASC as per Appendix VI about unidentified transmissible agents or unexplained increases in mortality. If applicable, then data are to be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle).				
Footnote		[98] Increased mortality: A statistically signif	icant increase over background rate on a monthly basis.			
Footnote		[99] Primary aim of monitoring and surveillance is to in	vestigate whether a new or adapted disease is present in the area.			
Footnote		[100]	Nithin one month.			
5.4.3	Indicator: Evidence of compliance [101] with the OIE Aquatic Animal Health Code [102] Requirement: Yes Applicability: All	Note: The Steering Committee recognizes that establishment of quarantine zones will likely incorporate mandatory depopulation of sites close to the infected site and affect some, though not necessarily all, of the ABM.				
		a. Maintain a current version of the OIE Aquatic Animal Health Code on site or ensure staff have access to the most current version. b. Develop policies and procedures as needed to ensure that farm practices remain consistent with the OIE Aquatic Animal Health Code (5.4.3a) and with actions required under indicator 5.4.4.	in the Fish Health plan includes a link for OIE and refers to the Code.	Compliant		
Footnote			tory depopulation of sites close to the infected site and affect some, though not necessa rea declared free of the pathogen).			
Footnote		[102] OIE 2011. Aquatic Animal Hea	Ith Code. http://www.oie.int/index.php?id=171.			
5.4.4	Indicator: If an OIE-notifiable disease [103] is confirmed on the farm, evidence that: 1. the farm has, at a minimum, immediately culled the pen(s) in which the disease was detected 2. the farm immediately notified the other farms in the ABM [104] 3. the farm and the ABM enhanced monitoring and conducted rigorous testing for the disease 4. the farm promptly [105] made findings publicly available Requirement: Yes Applicability: All	a. Ensure that farm policies and procedures in 5.4.3a describe the four actions required under Indicator 5.4.4 in response to an OIE-notifiable disease on the farm. b. Inform the CAB if an OIE-notifiable disease has been confirmed on the farm during the current production cycle or the two previous production cycles. If yes, proceed to 5.4.4c. If no, then 5.4.4c an 5.4.4d do not apply. c. If an OIE-notifiable disease was confirmed on the farm (see 5.4.4b), then retain documentary evidence to show that the farm: 1) immediately culled the pen(s) in which the disease was detected; 2) immediately culled the pen(s) in which the disease was detected; 2) immediately notified the other farms in the ABM [104] 3) enhanced monitoring and conducted rigorous testing for the disease; and 4) promptly (within one month) made findings publicly available. d. As applicable, submit data to ASC as per Appendix VI about any OIE-notifiable disease that was confirmed on the farm. If applicable, then data are to be sent to ASC on an ongoing basis (i.e. at least once per year and for each production cycle).	Notifiable diseases are immediately conveyed to the DFO and the CFIA who take control and determine the action. There is a legal onus on the fish health team to do this. Notifiable diseases in this area are IHN, IPN, VHS, ISA, OMV, Whirling disease and Coldwater Vibriosis. There is a variance in place and granted by ASC as VHS is endemic in the area and DFO have not required to cull the fish. This was allowed for other sites in BC, and the variance number was 89 and 91.	Compliant		

Footnote	[103] At the time of publication of the final draft standards, OIE-notifiable diseases relevant to salmon aquaculture were: Epizootic haematopoietic necrosis, Infectious haematopoietic necrosis (IHN), Infectious salmon anemia (ISA), Viral hemorrhagic septicemia (VHS) and Gyrodactylosis (Gyrodactylus salaris).								
Footnote		[104] This is in addition to any notifications to regulatory	bodies required under law and the OIE Aquatic Animal Health Code.						
Footnote			Within one month.						
PRINCIPLE 6	Social requirements in the standards shall be audited by an individual who is a lead auditor in conformity with SAAS Procedure 200 section 3.1. NCIPLE 6: DEVELOP AND OPERATE FARMS IN A SOCIALLY RESPONSIBLE MANNER								
T KINCH EE O	DEVELOT AND OF EIGHTE FAMILIES IN A SOCIALET RESTONSIE	6.1 Freedom of association an	d collective bargaining [106]						
			Compliance Criteria						
Footnote	[10	6] Bargain collectively: A voluntary negotiation between employers and organizations of worke	rs in order to establish the terms and conditions of employment by means of collective (written) agreeme	nts.				
6.1.1	Indicator: Evidence that workers have access to trade unions (if they exist) and union representative(s) chosen by themselves without managerial interference Requirement: Yes Applicability: All	a. Workers have the freedom to join any trade union, free of any form of interference from employers or competing organizations set up or backed by the employer. Farms shall prepare documentation to demonstrate to the auditor that domestic regulation fully meets these criteria. 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." c. Trade union representatives (or worker representatives) have access to their members in the workplace at reasonable times on the premises. d. Be advised that workers and union representatives (if they exist) will be interviewed to confirm the above.	No trade unions exist however the Code of Conduct, which is provided to all employees and they are tested to show they have understood the Code of conducts. The Code of Conduct is accessible via the intranet, which also allows access to human resources Policy & Procedure Manual. Code of Conduct section 5.3. Relates to this area and states "Marine Harvest recognises the right of all workers and employees freely to form and join groups for the promotion and defence of their occupational interests, including the right to engage in collective bargaining". Employees confirmed that they have signed the Contract of Employment and felt that their rights are not affected. They also confirmed that they receive a Contract of Employment and a copy of the Employee Handbook.	Compliant					
6.1.2	Indicator: Evidence that workers are free to form organizations, including unions, to advocate for and protect their rights Requirement: Yes Applicability: All	a. Employment contract explicitly states the worker's right of freedom of association. 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). c. Be advised that workers will be interviewed to confirm the above.	The worker's right to freedom of association is Stated in the contract of employment and within 5.3 of the code of conduct. Employees sign to state that they have been trained and tested on the Code of Conduct. The workers confirmed that the Code of Conduct was provided to them and that they had been trained and tested. The training records show that training happened, and the results are available on the training systems.	Compliant					
6.1.3	Indicator: Evidence that workers are free and able to bargain collectively for their rights Requirement: Yes Applicability: All	a. Local trade union, or where none exists a reputable civil-society organization, confirms no outstanding cases against the farm site management for violations of employees' freedom of association and collective bargaining rights. a. Local trade union, or where none exists a reputable civil-society organization, confirms no outstanding cases against the farm site management for violations of employees' freedom of association and collective bargaining rights. b. Employer has explicitly communicated a commitment to ensure the collective bargaining rights of all workers. c. There is documentary evidence that workers are free and able to bargain collectively (e.g. collective bargaining agreements, meeting minutes, or complaint resolutions).	No outstanding cases against the farm site management for violations of employees' freedom of association and collective bargaining rights. The employer has explicitly communicated a commitment to ensure the collective bargaining rights of all workers as stated in 6.1.1 & 6.1.2. The documentary evidence shows that workers are free and able to bargain collectively. Detailed in the Code of Conduct and training records.	Compliant					
		Criterion 6.2	Child labor						
		Compliance Criteria (Required Client Actions):							
6.2.1	Indicator: Number of incidences of child [107] labor [108] Requirement: None Applicability: All except as noted in [107]	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 108); 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. b. Minimum age of permanent workers is 15 or older (except in countries as noted above). c. Employer maintains age records for employees that are sufficient to demonstrate compliance.	persons employed under the age of 15. Marine Harvest state in section 5.4 of the code	Compliant					
Footnote	[107] Child: Any person under 15 year	s of age. A higher age would apply if the minimum age law of an area stipulates a higher age fo		ne developing cou	ntry exceptions in ILO conver	ntion 138.			
Footnote		[108] Child Labor: Any work by a child you	nger than the age specified in the definition of a child.						
6.2.2	Indicator: Percentage of young workers [109] that are protected [110] Requirement: 100%	a. Young workers are appropriately identified in company policies & training programs, and job descriptions are available for all young workers at the site. b. All young workers (from age 15 to less than 18) are identified and their ages are confirmed with copies of IDs. c. Daily records of working hours (i.e. timesheets) are available for all young workers. d. For young workers, the combined daily transportation time and school time and work time does not exceed 10 hours. 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	There is a policy stating the rules on employing young workers. The Marine Harvest code of conduct section 5.4 sets out the primary controls. Young workers risk assessments are carried out and displayed in the working areas. All young workers assessed before employment commences. All workers including young workers have the working hours recorded on a time management system. No young workers employed at the time of the audit.	Compliant					

	Applicability: All	hazardous. f. Be advised that the site will be inspected and young workers will be interviewed to confirm compliance.				
Footnote		[109] Young Worker: Any worker between the	e age of a child, as defined above, and under the age of 18.			
Footnote	[110] Protected: Workers between 15 a	and 18 years of age will not be exposed to hazardous health and safety conditions; working ho	urs shall not interfere with their education and the combined daily transportation time at	nd school time, a	nd work time shall not exceed	10 hours.
Footnote		[111] Hazard: The inherent potential to cause injury or damage to a person's health (e.	g., unequipped to handle heavy machinery safely, and unprotected exposure to harmful	chemicals).		
Footnote	[112] Hazardous work: Work that	, by its nature or the circumstances in which it is carried out, is likely to harm the health, safety		ting heavy machir	nery, exposure to toxic chemic	als).
		Criterion 6.3 Forced, bon	ded or compulsory labor Compliance Criteria			
6.3.1	Indicator: Number of incidences of forced, [113] bonded [114] or compulsory labor Requirement: None Applicability: All	a. Contracts are 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). b. Employees are free to leave workplace and manage their own time. c. Employeed ose not withhold employee's original identity documents. d. Employer does not withhold any part of workers' salaries, benefits, property or documents in order to oblige them to continue working for employer. e. Employees are not to be obligated to stay in job to repay debt. f. Maintain payroll records and be advised that workers will be interviewed to confirm the above.	All employees are provided with contracts of employment. Workers have signed all contracts of employment. The employer does not withhold employee's original identity documents. Through documentation checks, it confirmed that all working hours are conducted on a voluntary basis. The employer does not withhold employee's original identity documents. The employer does not withhold any part of workers' salaries, benefits, property or documents to oblige them to continue working for the employer. No employees are repaying debt. The employees confirmed all of the above within the interviews.	Compliant		
Footnote Footnote	[113] Forced (Compulsory) labor: All work or service that i		red himself/herself voluntarily or for which such work or service is demanded as a repayr on of movement (e.g., withholding of identity documents). yer or creditor to work to repay a financial debt to the crediting agency.	ment of debt. "Pe	nalty" can imply monetary sar	nctions, physical punishment,
rootilote		Criterion 6.4 Disc				
Footnote	[115] Discrimination: Any distinction, exclusion or prefere	ence that has the effect of nullifying or impairing equality of opportunity or treatment. Not eve		or performance-b	pased pay increase or bonus is	not by itself discriminatory.
Toothote		Positive discrimination in favor of people from cer	tain underrepresented groups may be legal in some countries.			
6.4.1	Indicator: Evidence of comprehensive [116] and proactive anti-discrimination policies, procedures and practices Requirement: Yes Applicability: All	a. Employer has written anti-discrimination policy in place, stating that the company does not engage in or support discrimination in hiring, remuneration, access to training, promotion, termination or retirement based on race, caste, national origin, religion, disability, gender, sexual orientation, union membership, political affiliation, age or any other condition that may give rise to discrimination. b. Employer has clear and transparent company procedures that outline how to raise, file, and respond to discrimination complaints. c. Employer respects the principle of equal pay for equal work and equal access to job opportunities, promotions and raises. 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.	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.	Compliant		
Footnote	[116] Employers shall have written anti-discrimination	on policies stating that the company does not engage in or support discrimination in hiring, rer membership, political affiliation, age or ar	ny other condition that may give rise to discrimination.	e, national origin,	religion, disability, gender, se	xual orientation, union
6.4.2	Indicator: Number of incidences of discrimination Requirement: None Applicability: All	a. Employer maintains a record of all discrimination complaints. These records do not show evidence for discrimination. 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.	The facility has a procedure in place to document all discrimination complaints. To date, there have not been any complaints. There is no evidence of discrimination. Workers interviewed stated that the company did not discriminate against them. Workers interviewed had not experienced or heard of any issues with regards to discrimination.	Compliant		
		Criterion 6.5 Work enviro	nment health and safety Compliance Criteria			
			The facility has established procedures and policies to protect employees. These are communicated within the Human Resources policy and the Marine Harvest Code of Conduct section 4.1. Employees are trained in emergency response procedures. The training has been recorded in the onsite training systems (DATS) and displayed on the employee notice		The operations team training on DATS was as low as 12 percent for some workers and supervisors. It was noted that a lot of health and safety training	

6.5.1	Indicator: Percentage of workers trained in health and safety practices, procedures [117] and policies on a yearly basis Requirement: 100% Applicability: All	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. b. Employees know and understand emergency response procedures. 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.	boards. Health and safety training is carried out by an external company every year. Ongoing training carried out on an online training software management systems. Marine Harvest tries to ensure that the overall training levels are above 75 percent. It is the responsibility of the site managers to ensure that this level is achieved. The marine Harvest Code of Conduct section 4.1 sets out the Health & Safety rules All sites shall establish annual safety targets with action plans (what, who, when) • All sites shall establish annual safety targets with action plans (what, who, when) • All sites shall establish annual safety targets with action plans (what, who, when) • All sites shall participate in safety meetings on a regular basis • The use of personal protective equipment and life jackets shall be specified for employees, contractors and visitors • A risk assessment concerning safety shall be made for all jobs, equipment, and potentially hazardous materials, with an annual review made of those, considered most critical • A work permit system shall be in place, to include lock-out tag-out procedures and to safeguard work in confined spaces • An approval system for contractors shall be in place • All accidents and near-misses shall be reported and investigated, to include root-cause analysis, and with the subsequent implementation of corrective actions within the planned time • An emergency response plan shall be in place and tested at least once every year • All Business Units shall have a safety committee, to include site managers and other members, to reflect a safety focus throughout the organization • A programme for systematic and regular safety training shall be in place	Major	was not completed or expired. There is no formal process/management system to show how health safety findings are managed and closed out. Noted on Site tour Mort box on the crew boat has ropes installed which are used for lifting compressor cover has been removed and not replaced Generator room door is left open due to ventilation problems Life raft service expired, and the rope to deploy was not connected	
Footnote		[117] Health and safety training shall inc	lude emergency response procedures and practices.			
6.5.2	Indicator: Evidence that workers use Personal Protective Equipment (PPE) effectively Requirement: Yes Applicability: All	a. Employer maintains a list of all health and safety hazards (e.g. chemicals). b. Employer provides workers with PPE that is appropriate to known health and safety hazards. 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.	A full list of MSDS is available within the health and safety standards documentation and stored on all site computers. The site has carried out risk assessments for all operations and has identified the PPE required for each task. The site uses the risk assessment to understand the risks and eliminate the risks where possible. The site understands that Personal Protective Equipment should only be used where it is not possible to reduce the risk without the use of Personal Protective Equipment. Employees all receive induction training which includes the correct and proper use of Personal Protective Equipment. There are modules that are built into the online health & Safety management system that employees have to complete each year. The site manager ensures this training is carried out and recorded. Workers confirmed within interview process that Personal Protective Equipment was provided and training was provided if required."	Compliant		
6.5.3	Indicator: Presence of a health and safety risk assessment and evidence of preventive actions taken Requirement: Yes Applicability: All	a. 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). b. Employees are trained in how to identify and prevent known hazards and risks (see also 6.5.1c). c. Health and safety procedures are adapted based on results from risk assessments (above) and changes are implemented to help prevent accidents.	Risk assessments are carried by the site manager every year. All reviews are documented. Changes are made sooner if the process changes or new machinery is implemented. Risk assessments are used to identify the risk and employees are trained against the risk assessments. The site has trained employees that carry out risk assessments. This training is recorded on the MH internal DATS system. Health and safety procedures are adapted based on results from risk assessments. Risk assessments are reviewed when changes are made to the processes to avoid potential accidents.	Compliant		
6.5.4	Indicator: Evidence that all health- and safety-related accidents and violations are recorded and corrective actions are taken when necessary Requirement: Yes Applicability: All	a. Employer records all health- and safety-related accidents. b. Employer maintains complete documentation for all occupational health and safety violations and investigations. 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.	Facility records all health & safety related accidents. The Health & Safety Manager investigates accidents. The Health & Safety Manager investigation looks and the Root Cause and implements a corrective action plan and review of the working procedures. Employees stated during the interview process that accidents were investigated and steps were taken and improvements made if required.	Compliant		

6.5.5	Indicator: Evidence of employer responsibility and/or proof of insurance (accident or injury) for 100% of worker costs in a job-related accident or injury when not covered under national law Requirement: Yes Applicability: All	a. 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.	Insurance is available for all workers to ensure that they are compensated to cover costs related to occupational accidents. Public liability insurance is also available to cover all over parties.	Compliant		
6.5.6	Indicator: Evidence that all diving operations are conducted by divers who are certified Requirement: Yes Applicability: All	Note: If the farm outsources its diving operations to an independent company, the farm shall ensure that auditors have access to specified information sufficient to demonstrate compliance with indicator 6.5.6. It is the farm's responsibility to obtain copies of relevant documentation le v. certificates) from the dive company. 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.	Employer keeps records of farm diving operation. All external divers are given full details of the operations that are required. All diving certification was provided. All divers have the required accreditations. Checks of certifications are made by Marine Harvest every 60 days.	Compliant		
		Criterion 6	6.6 Wages			
			Compliance Criteria			
6.6.1	Indicator: The percentage of workers whose basic wage [118] (before overtime and bonuses) is below the minimum wage [119] Requirement: 0 (None) Applicability: All	a. 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. b. Employer's records (e.g. payroll) confirm that worker's wages for a standard work week (5 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. 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.	Wages are recorded in an electronic accounting system and verified. All pay is in line or above minimum wage requirements. All workers confirmed that wages are paid correctly. The months reviewed for hours and pay were; May 2018 December 2017 July 2017	Compliant		
Footnote		[118] Basic wage: The wages paid for	a standard working week (no more than 48 hours).			
Footnote			y, basic wages must meet the industry-standard minimum wage.			
Toothote			MHC use Hays group to assist with setting pay levels and carry out here own reviews			
6.6.2	Indicator: Evidence that the employer is working toward the payment of basic needs wage [120] Requirement: Yes Applicability: All	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. 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. c. Employer demonstrates how they have taken steps toward paying a basic needs wage to their workers.	to ensure that levels are correct. There are details of living wages for BC available which states the living wage is \$16.42 MHC starting wage is \$17.50	Compliant		
Footnote	[120] Basic needs wa	ige: A wage that covers the basic needs of an individual or family, including housing, food and	transport. This concept differs from a minimum wage, which is set by law and may or may	y not cover the b	asic needs of workers.	
6.6.3	Indicator: Evidence of transparency in wage-setting and rendering [121] Requirement: Yes Applicability: All	Wages and benefits are clearly articulated to workers and documented in contracts. 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. d. Be advised that workers will be interviewed to confirm the above.	Wages and benefits are documented before the point of employment and written into the contract of employment. Employees are paid bi-weekly by electronic bank transfer. Employees are paid bi-weekly by electronic bank transfer, and the workers clearly understand this. Employees confirmed within interview process that information was available and electronic transfer payments are made directly to their bank accounts.	Compliant		
Footnote		[121] Payments shall be reno	dered to workers in a convenient manner.			
		Criterion 6.7 Contracts (labo				
			Compliance Criteria			
6.7.1	Indicator: Percentage of workers who have contracts [122] Requirement: 100% Applicability: All	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.	All employees are provided with a contract of employment, and a copy of the contract was available in the personnel files. There was no evidence of Labor only contracts or false apprenticeships. Employees confirmed that there are no Labor only contracts or false apprenticeships.	Compliant		
Footnote		nticeship schemes are not acceptable. This includes revolving/consecutive labor contracts to de "apprenticeship if its purpose is to underpay people, avoid legal obligations or employ undera payment of regular wages or the provision of le				

6.7.2	Indicator: Evidence of a policy to ensure social compliance of its suppliers and contractors Requirement: Yes Applicability: All	a. Farm has a policy to ensure that all companies contracted 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.	Where Marine Harvest uses subcontractors, they check that the companies have socially responsible practices and policies. Marine Harvest keeps a list of approved suppliers and contractors. Marine Harvest keeps records of communications with suppliers and subcontractors.	Compliant		
		Criterion 6.8 Co.	nflict resolution			
		Compliance Criteria				
6.8.1	Indicator: Evidence of worker access to effective, fair and confidential grievance procedures Requirement: Yes Applicability: All	a. Employer has a clear labor conflict resolution 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. c. Maintain documentary evidence (e.g. complaint or grievance filings, minutes from review meetings) and be advised that workers will be interviewed to confirm the above.	There is a complaint procedure detailed in the HR Policy which explains the reporting procedure including bullying and harassment and confidentiality policy. All employees have access to policies through the intranet. This was confirmed through employee interviews. All communication such as Complaints, grievances and discipline is recorded in the employee personnel file. All communications are detailed in writing with the employee personnel files.	Compliant		
6.8.2	Indicator: Percentage of grievances handled that are addressed [123] within a 90-day timeframe Requirement: 100% Applicability: All	a. Employer maintains a record of all grievances, complaints and labor conflicts that are raised. b. Employer keeps a record of follow-up (i.e. corrective actions) and timeframe in which grievances are addressed. c. Maintain documentary evidence and be advised that workers will be interviewed to confirm that grievances are addressed within a 90-day timeframe.	The established grievance policy and procedures are well documented. Any grievances that are raised are recorded in the employee personnel files and have agreed on action plans if required. Through workers interviewed it was noted that grievances had been made and the grievances were handled following the MH grievance procedures. The company policy is to respond to each stage of the process within 14 days. Also, see 6.8.1	Compliant		
Footnote		[123] Addressed: Acknowledged and received, moving through the	ne company's process for grievances, corrective action taken when necessary.			
		Criterion 6.9 Disc	iplinary practices			
			Compliance criteria			
6.9.1	Indicator: Incidences of excessive or abusive disciplinary actions Requirement: None Applicability: All	a. Employer does not use threatening, humiliating or punishing disciplinary practices that negatively impact a worker's physical and mental health or dignity. b. Allegations of corporeal punishment, mental abuse [124], physical coercion, or verbal abuse will be investigated by auditors. c. Be advised that workers will be interviewed to confirm there is no evidence for excessive or abusive disciplinary actions.	None of the policies or procedures used is threatening, humiliating or has any punishing disciplinary practices. The practice of the disciplinary does not impact the workers physical or mentally. The workers confirmed there are no excessive or abusive disciplinary actions	Compliant		
Footnote		[124] Mental Abuse: Characterized by the intentional use of power including	verbal abuse, isolation, sexual or racial harassment, intimidation or threat of physical force	·e		
roothote		[124] Werital Abuse. Characterized by the intentional use of power, including t		.e.		
6.9.2	Indicator: Evidence of a functioning disciplinary action policy whose aim is to improve the worker [125] Requirement: Yes Applicability: All	a. Employer has written policy for disciplinary action which explicitly states that its aim is to improve the worker [125]. b. 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 company has written policy disciplinary action that "explicitly" states to improve the worker. The company has performance management policy, so this should be noted alongside the disciplinary procedure. None of the workers had been involved in a disciplinary procedure the workers confirmed this. The workers confirmed that they are regularly evaluated and reviewed.	Compliant		
	[125] If disciplinary action is required progressive verbal a	and written warnings shall be engaged. The aim shall always be to improve the worker; dismiss:	al shall be the last resort. Policies for horuses, incentives, access to training and promotic	ons are clearly st	ated and understood, and not	used arbitrarily. Fines or basic
Footnote	Liberphilary decion is required, progressive verbal a		it be acceptable disciplinary practices.	are cicarry st	and anacistood, and not	and an order army. Times or basic
		Criterion 6.10 Workin				
		Chenon 6.10 Workin	Compliance criteria			
		Note: Working hours, night work and rest periods for workers in agriculture should be in accoon the website of the International Labour Organization (www.ilo.org).		Health in Agricult	ture Convention, 2001). Addition	onal information can be found
6.10.1	Indicator: Incidences, violations or abuse of working hours and overtime laws [126] Requirement: None Applicability: All	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. b. Records (e.g. time sheets and payroll) show that farm workers do not exceed the number of working hours allowed under the law. 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). d. Be advised that workers will be interviewed to confirm there is no abuse of working hours and overtime laws.	Working hours are provided by site managers to the payroll and working hours' department. The workers confirmed that working hours are correct before this. Records on the attendance system show that workers are not exceeding the working	Major	The shift patterns for the Operations team exceed internationally accepted recommendations. The shift with the highest number of consecutive working days is 24 days on 18 off. (The daily working hours are contracted at 10 hours per day)	
Footnote		[126] In cases where local legislation on working hours and overtime exceed internationally	accented recommendations (48 regular hours, 12 hours overtime), the international stan	dards will apply		
6.10.2	Indicator: Overtime is limited, voluntary [127], paid at a premium rate [128] and restricted to exceptional circumstances Requirement: Yes	a. Payment records (e.g. payslips) show that workers are paid a premium rate for overtime hours. b. Overtime is limited and occurs in exceptional circumstances as evidenced by farm records (e.g. production records, time sheets, and other records of working hours). c. Be advised that workers will be interviewed to confirm that all overtime is voluntary except	accepted recommendations (48 regular hours, 12 hours overtime), the international stan The employees are paid a premium rate for overtime hours they are paid 150% for the first 2 hours and 200% for any hours worked after that. The time and attendance system confirmed that overtime is infrequent. The employees confirmed that overtime is rare and is voluntary.	Major	The review of the working hours found; • Operations workers are working more than 16 hours per day on a regular hasis	

	. Applicability: All except as noted in [130]	where there is a collective bargaining agreement which specifically allows for compulsory overtime.		The highest number of working hours in one day		
Footnote		[127] Compulsory overtime is permitted if pre	viously agreed to under a collective bargaining agreement.	was 19 hours.		
Footnote		[128] Premium rate: A rate of pay higher than the regular work we	ek rate. Must comply with national laws/regulations and/or industry standards.			
	Criterion 6.11 Education and training					
	Compliance criteria The company encourages employees to increase knowledge and participate in training					
6.11.1	Indicator: Evidence that the company regularly performs training of staff in fish husbandry, general farm and fish escape management and health and safety procedures Requirement: Yes Applicability: All	a. Company 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 prearranged time. b. Employer maintains records of worker participation in educational opportunities as evidenced by course documentation (e.g. list of conses, curricula, certificates, degrees). c. Be advised that workers will be interviewed to confirm that educational initiatives are encouraged and supported by the company.	courses and supports the workers in doing this. As stated in HR policy section 9 Employee training and development and education assistance programs. All training records are maintained on the DATS system. Workers confirmed that they are encouraged to learn and be involved with training courses. Other than compulsory health and safety training workers dictate the speed of additional training.	Compliant		
		Criterion 6.12 Corporate pol				
6.12.1	Indicator: Demonstration of company-level [129] policies in line with the standards under 6.1 to 6.11 above Requirement: Yes Applicability: All	a. Company-level policies are in line with all social and labor requirements presented in 6.1 through 6.11. b. Company-level policies (see 6.12.1a) are approved by the company headquarters in the 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 processing plants). d. The site that is applying for certification provides auditors with access to all company-level policies and procedures as are needed to verify compliance with 6.12.1a (above).	All requested documentation was provided and reviewed	Compliant		
Footnote		of the company in a region or country where the site applying for certification is located. The Social requirements in the standards shall be audited by an individual w		grow-out, smolt production and processing facilities.		
PRINCIPLE /:	BE A GOOD NEIGHBOR AND CONSCIENTIOUS CITIZEN	Criterion 7.1 Comm	nunity engagement			
			Compliance Criteria			
7.1.1	Indicator: Evidence of regular and meaningful [130] consultation and engagement with community representatives and organizations Requirement: Yes Applicability: All	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 Social Impact Assessment (pSIA) or an equivalent method for consultations. c. Consultations include participation by representatives from the local community who were asked to contribute to the agenda. d. Consultations include communication about, or discussion of, the potential health risks of therapeutic treatments (see Indicator 7.1.3). e. Maintain records and documentary evidence (e.g. meeting agenda, minutes, report) to demonstrate that consultations comply with the above. f. Be advised that representatives from the local community and organizations may be interviewed to confirm the above.	and information regarding certification.	Compliant		
Footnote	[130] Regular and meaningful: Meetings shall be I	held at least bi-annually with elected representatives of affected communities. The agenda for		al Impact Assessment methods may be one option to o	consider here.	
7.1.2	Indicator: Presence and evidence of an effective [131] policy and mechanism for the presentation, treatment and resolution of complaints by community stakeholders and organizations Requirement: Yes Applicability: All	a. Farm policy provides a mechanism for presentation, treatment and resolution of complaints lodged by stakeholders, community members, and organizations. 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). c. The farm's mechanism for handling complaints is effective based on resolution of stakeholder complaints (e.g. follow-up correspondence from stakeholders). d. Be advised that representatives from the local community, including complaints where applicable, may be interviewed to confirm the above.	Marine Harvest has a policy Doc#5/FW905 External Complaint resolution. A log has been created. The Log details who raised the complaint and the nature of the complaint. The company policy is all complaints are passed to the communications manager and then forwarded to senior management should it be required. The complaints procedure is detailed and sets out the requirements for handling each complaint No representatives made themselves available for the audit.	Compliant		
Footnote		[131] Effective: In order to demonstrate that the mecha	nism is effective, evidence of resolutions of complaints can be given.			
713	Indicator: Evidence that the farm has posted visible notice [132] at the farm during times of therapeutic treatments and has, as part of consultation with communities under 7.1.1, communicated about potential health risks from treatment.	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) b. Notices (above) are posted where they will be visible to affected stakeholders (e.g. posted on waterways for	Notices are posted on the site if Therapeutic Treatments are being carried out. The signage that is used was seen during the farm inspection. The signage used is clear and can be seen by anyone passing the farm. This has been communicated in the engagement letter as detailed 7.1.1.	Compliant		

The ASC Sale boundaries the farm is of The intent b	of indigenous groups have a defined legal status according to operating in close proximity to indigenous groups. Here ASC behind the ASC Salmon Standard is that the farm will identify	Criterion 7.2 Respect for indigenous and objects of Indigenous Groups traditional territiories of indigenous groups. The Indicators listed under Criterion 7.2 were design to local or national law. In such cases, it is straightforward to know whether a farm is operating provides the following guidance. y all neighboring groups who are potentially negatively impacted by the farm's activities. The ac	and, for example, to fishermen passing by the farm. original cultures and traditional territories Compliance Criteria igned to fulfill this purpose in a manner consistent with the United Nations Declaration or in close proximity to indigenous people. However, when boundaries of indigenous territ	ories are undefin understanding w	ed or unknown, there is no sin	mple way to establish whether etrimental impact upon its
	enective community consultations are one or the best ways in his between farm and neighbors should create a forum where	to identify such impacts to neighbor groups. Through a transparent process of consultation, ind e any key issue can be discussed and resolved.	igenous groups wno are put under stress by the farm will identify themselves and voli	e their concerns	about the nature of the farm	s impacts. Continued
7.2.1	Indicator: Evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations Requirement: Yes Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133]	a. 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, 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, b. Farm management demonstrates an understanding of relevant local and/or national laws and regulations that pertain to consultations with indigenous groups. 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 comples with 7.2.1b; OR - farm confirms that government-to-government consultation occurred and obtains documentary evidence. d. Be advised that representatives from indigenous groups may be interviewed to confirm	Marine Harvest is operating in some indigenous territories and has several agreements (IBA) in place with FN groups. The agreements demonstrate that Marine Harvest is aware of Local, national laws and regulations for each FN group. Tlatlasikwala First Nation has been granted the formal tenure and Marine Harvest operate the site under formal agreement with Tlatlasikwala First Nation. No representatives made themselves available for the audit.	Compliant		
7.2.2	Indicator: Evidence that the farm has undertaken proactive consultation with indigenous communities Requirement: Yes [133] Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133]	a. See results of 7.2.1a (above) to determine whether the requirements of 7.2.2 apply to the farm. b. Be advised that representatives from indigenous communities may be interviewed to confirm that the farm has undertaken proactive consultations.		Compliant		
Footnote		[133] All standards related to indigenous rights only a	pply where relevant, based on proximity of indigenous territories.	l.		
7.2.3	Indicator: Evidence of a protocol agreement, or an active process [134] to establish a protocol agreement, with indigenous communities Requirement: Yes Applicability: All farms that operate in indigenous territories or in proximity to indigenous or aboriginal people [133]	a. See results of 7.2.1a (above) to determine whether the requirements of 7.2.3 apply to the farm. 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. c. Be advised that representatives from indigenous communities may be interviewed to confirm either 7.2.3b1 or b2 (above) as applicable.	The agreements demonstrate that Marine Harvest is aware of Local, national laws and regulations for each FN. There are agreements in place as detailed in 7.2.1 and continuous engagements as detailed 7.2.1. No representatives made themselves available for the audit.	Compliant		
Footnote	[134] To demonstrate an active pro-	cess, a farm must show ongoing efforts to communicate with indigenous communities, an unde		hrough adaptive t	farm management and other	actions.
		Criterion 7.3 Acce	ess to resources Compliance Criteria			
7.3.1	Indicator: Changes undertaken restricting access to vital community resources [135] without community approval Requirement: None Applicability: All	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). b. The farm seeks and obtains community approval before undertaking changes that restrict access to vital community resources. Approvals are documented. c. 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.	There is no restriction of access and report notes the FN's have no issues with the use	Compliant		
Footnote	[135] Vital community resources can include fres	hwater, land or other natural resources that communities rely on for their livelihood. If a farm s		resource, this wo	ould be unacceptable under th	ne Dialogue standard.
7.3.2	Indicator: Evidence of assessments of company's impact on access to resources	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. b. Be advised that	See 7.2.1, 7.2.2, and 7.3.1 No representatives made themselves available for the audit.	Compliant		

,	Requirement: Yes Applicability: All	representatives from the community may be interviewed to generally corroborate the accuracy of conclusions presented in 7.3.2a.		compliant		1	
A farm see	king certification must have documentation from all of its s	INDICATORS AND STANDARD molt suppliers to demonstrate compliance with the following standards. The requirements are, applied to open systems (net pens), and to closed and sen	in general, a subset of the standards in Principles 1 through 7, focusing on the impacts t	that are most rele	evant for smolt facilities. In add	dition, specific standards are	
Footnote	[136] The SAD SC proposes this approach to addressing environmental and social performance during the smolt phase of production. In the medium term, the SC anticipates a system to audit smolt production facilities on site. In the meantime, farms will need to work with their smolt suppliers to generate the						
SECTION 9- 9	TANDARDS FOR SUPPLIERS OF SMOLT						
SECTION 6. 3	ANDARUS FOR SUPPLIERS OF SMULT Standards related to Principle 1						
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):	l	1		
		identify all of the farm's smolt suppliers. For each supplier, identify the type of smolt production system used (e.g. open, semi or closed systems) and submit this information to ASC (Appendix VI).	The hatcheries involved for Marine Harvest Canada are Ocean falls, Big tree Creek and Dalrymple. The Aquaculture Licence numbers are AQFW 112568 2015, AQFW 112572 2015 and AQFW 112571 2015 respectively. Ocean Falls a flow through farm and is compliant with the discharge conditions. Big tree Creek and Dalrymple have been			ı	
8.1	Indicator : Compliance with local and national regulations on water use and discharge, specifically providing permits related to water quality	b. Where legal authorisation related to water quality are required, obtain copies of smolt suppliers' permits.	converted to re-circulation and are not compliant to the old flow through discharge licences. There is a letter in place from the Ministry of environment and signed by the Environmental protection officer stating that it's not going to press enforcement as long as the company continue to installing advanced treatment systems for water	Compliant		ı	
8.1	Requirement: Yes Applicability: All Smolt Producers	c. Obtain records from smolt suppliers showing monitoring and compliance with discharge laws, regulations, and permit requirements as required.	treatment. Both dated April 2014.	Compliant		1	
	Apprendict, All Sillott Houses	-					
	Indicator: Compliance with labor laws and regulations	a. Obtain declarations from smolt suppliers affirming compliance with labor laws and regulations.	See prinnciple 6 as the hatcheries are owned by Marine Harvest.				
8.2	Requirement: Yes Applicability: All Smolt Producers	b. Keep records of supplier inspections for compliance with national labor laws and codes (only if such inspections are legally required in the country of operation; see 1.1.3a)		Compliant		ı	
		Standards relate		l.			
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):	l			
	Indicator: Evidence of an assessment of the farm's	Note: If the smolt facility has previously undertaken an independent assessment of biodiversit use such documents as evidence to demonstrate compliance with Indicator 8.3 as long as all co	omponents are covered.				
8.3	potential impacts on biodiversity and nearby ecosystems that contains the same components as the assessment for grow-out facilities under 2.4.1 Requirement: Yes	 a. Obtain from the smolt supplier(s) a documented assessment of the smolt site's potential impact on biodiversity and nearby ecosystems. The assessment must address all components outlined in Appendix I-3. 	Biodiversity impact assessment for the hatchery was drawn up in November 2014. There are a series of recommendations at the end of the report mainly to do with the effluent discharge and its effect. Work is on-growing, and the farm is being turned into 100% re-circulation. There have been some modifications to the hatcheries that have not been assessed in the impact assessment.	Minor	There have been some modifications and	l	
	Applicability: All Smolt Producers	b. Obtain from the smolt supplier(s) a declaration confirming they have developed and are implementing a plan to address potential impacts identified in the assessment.	·		modernisations to the hatcheries that have not been assessed in the impact assessment.		
		Instruction to Clients for Indicator 8.4 - Calculating Total Phosphorus Released per Ton of Fis Farms must confirm that each of their smolt suppliers complies with the requirement of Indica over a 12-month period. The requirement is set at 4 kg/mt. The calculation of total phosphoru	ator 8.4. This specifies the maximum amount of phosphorus that a smolt production facil			c ton (mt) of fish produced	
		If applicable, farms may take account of any physical removals of phosphorus in the form of sl - the smolt supplier has records showing the total quantity of sludge removed from site over th - the supplier determined phosphorus concentration (% P) in removed sludge by sampling and - the sludge was properly disposed off site and in accordance with the farm's biosolid manager	he relevant time period; analyzing representative batches; and ment plan.				
		Obtain records from smolt suppliers showing amount and type of feeds used for smolt production during the past 12 months.	There is a new Variance in place number 231 that allows Phosphorus to be calculated in the effluent water rather than the sludge. There is also a VR for Ocean falls number 92 as they are discharging to the marine environment. For Big tree Creek, the total was 384 tons with a total phosphorus discharge to the environment of 34.05kg and a				
	Indicator: 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)	b. For all feeds used by the smolt suppliers (result from 8.4a), keep records showing phosphorus content as determined by chemical analysis or based on feed supplier declaration (Appendix VIII-1).	0.0885 kg of Phosphorus per ton of production. Dalrymple production is 718.217 tons. Total Phosphorus discharge is 917.287 kg. The effluent of Phospurus is 1.277 kg/Mt.			ı	

8.4	Requirement: 4 kg/mt of fish produced over a 12-month period Applicability: All Smolt Producers	c. Using the equation from Appendix VIII-1 and results from 8.4a and b, calculate the total amount of phosphorus added as feed during the last 12 months of smolt production. d. Obtain from smolt suppliers records for stocking, harvest and mortality which are sufficient to calculate the amount of biomass produced (formula in Appendix VIII-1) during the past 12 months. e. Calculate the amount of phosphorus in fish biomass produced (result from 8.4d) using the formula in Appendix VIII-1. f. If applicable, obtain records from smolt suppliers showing the total amount of P removed as sludge (formula in Appendix VIII-1) during the past 12 months. g. Using the formula in Appendix VIII-1 and results from 8.4a-f (above), calculate total phosphorus released per ton of smolt produced and verify that the smolt supplier is in compliance with requirements.	d to Principle 2	Compliant		0.0885kg/ton and 1.277kg/ton
		Standards relate Compliance Criteria (Required Client Actions):	d to Principle 3 Auditor Evaluation (Required CAB Actions):			
8.5	Indicator: If a non-native species is being produced, the species shall have been widely commercially produced in the area prior to the publication of the ASC Salmon Standard Requirement: Yes [137] Applicability: All Smolt Producers except as noted in [137]	a. Obtain written evidence showing whether the smolt supplier produces a non-native species or not. If not, then Indicator 8.5 does not apply. b. Provide the farm with documentary evidence that the non-native species was widely commercially produced in the area before publication of the ASC Salmon Standard. (See definition of area under 3.2.1.) c. If the smolt supplier cannot provide the farm with evidence for 8.5b, provide documentary evidence that the farm uses only 100% sterile fish. d. If the smolt supplier cannot provide the farm with evidence for 8.5b or 8.5c, provide documented evidence for each of the following: 1) non-native species are separated from wild fish by effective physical barriers that are in place and well maintained; 2) barriers ensure there are no escapes of reared fish specimens that might survive and subsequently reproduce; and 3) barriers ensure there are no escapes of biological material that might survive and subsequently reproduce. e. Retain evidence as described in 8.5a-d necessary to show compliance of each facility supplying smolt to the farm.	Non-native Atlantic salmon are farmed. The DFO website shows that introductions occurred in 1985 from Scotland. Evidence provided in the form of the information on the DFO website showing egg importations.	Compliant		
Footnote	[137] Exceptions shall be made for production systems	s that use 100 percent sterile fish or systems that demonstrate separation from the wild by effe		red specimens or	biological material that migh	t survive and subsequently
			reproduce.		1	
8.6	Indicator: Maximum number of escapees [138] in the most recent production cycle Requirement: 300 fish [139] Applicability: All Smolt Producers except as noted in [139]	a. Obtain documentary evidence to show that smolt suppliers maintained monitoring records of all incidences of confirmed or suspected escapes, specifying date, cause, and estimated number of escapees. b. Using smolt supplier records from 8.6a, determine the total number of fish that escaped. Verify that there were fewer than 300 escapees from the smolt production facility in the most recent production cycle. c. Inform smolt suppliers in writing that monitoring records described in 8.6a must be maintained for at least 10 years beginning with the production cycle for which the farm is first applying for certification (necessary for farms to be eligible to apply for the exception noted in [139]). d. If an escape episode occurs at the smolt production facility (i.e. an incident where > 300 fish escaped), the farm may request a rare exception to the Standard [139]. Requests must provide a full account of the episode and must document how the smolt producer could not	There are no escapes reported. The system is a full re-circulation with grids and screens in place. The hatcheries are, and two of them are full re-circulation system. All monitoring records are submitted to DFO who keep them indefinitely and are available on their website. The hatcheries all have reporting conditions with their PAR licences the same as the marine sites.	Compliant		0
Footnote		have predicted the events that caused the escape episode. [138] Farms shall report all escapes; the total aggregated	number of escapees per production cycle must be less than 300 fish.			
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	[139] A rare exception to this standard may be made for an escape event that is clearly documented as being outside of the farm's control. Only one such exceptional episode is allowed in a 10-year period for the purposes of this standard. The 10-year period starts at the beginning of the production cycle for which the						
Footnote		n escape event that is clearly documented as being outside of the tarm's control. Only one such semonstrate that there was no reasonable way to predict the events that caused the episode. E					
8.7	Indicator: Accuracy [140] of the counting technology or counting method used for calculating the number of fish Requirement: 298%	 a. Obtain records showing the accuracy of the counting technology used by smolt suppliers. Records must include copies of spec sheets for counting machines and common estimates of error for hand-counts. 	Vaki automatic counters are used with a reported accuracy of +/- 2%. The smolts are counted three times at vaccination, Loading for transfer and then by the well boat into the pens. There is a new Smolt inventory control SOP for hatchery sites Document FW269.	Compliant			
	Applicability: All Smolt Producers	B. Review records to verify that accuracy of the smolt supplier's counting technology or counting method is \geq 98%.					
Footnote		[140] Accuracy shall be determined by the spec sheet for count Standards relate	ing machines and through common estimates of error for any hand counts.				
		Compliance Criteria (Required Client Actions):	Auditor Evaluation (Required CAB Actions):				
8.8	Indicator: Evidence of a functioning policy for proper and responsible treatment of non-biological waste from production (e.g., disposal and recycling) Requirement: Yes Applicability: All Smolt Producers	 a. From each smolt supplier obtain a policy which states the supplier's commitment to proper and responsible treatment of non-biological waste from production. It must explain how the supplier's policy is consistent with best practice in the area of operation. 	The hatcheries are part of Marine Harvest Canada. The feed bags, pallets and plastic are all sent back to the feed company. There is a waste management plan in place for MHC. The policy also covers the sea. S/FW963. There is a declaration on Environmental and biodiversity policy and signed by the Managing director of MHC stating that there is a commitment to environmental certification programs such as ASC.	Compliant			
		Note: see instructions for Indicator 4.6.1.		l			
		Obtain records from the smolt supplier for energy consumption by source (fuel, electricity) at the supplier's facility throughout each year.	All records of fuel and electricity use are recorded for each of the facilities. These records make up part of the reporting into MH on global use of energy. The hatcheries all record energy use. The calculations are in place for the 2016 energy consumption		The calculations are in place for the 2016 energy consumption in Kilojoules		
	Indicator: Presence of an energy-use assessment verifying the energy consumption at the smolt production facility (see Appendix V subsection 1 for guidance and required components of the records and assessment) Requirement: Yes, measured in kilojoule/mt fish/production cycle Applicability: All Smolt Producers	b. Confirm that the smolt supplier calculates total energy consumption in kilojoules (kj) during the last year.	in Kilojoules use however the 2017 calculations are not yet complete.		use however the 2017 calculations are not yet complete.		
8.9		c. Obtain records to show the smolt supplier calculated the total weight of fish in metric tons (mt) produced during the last year.		Minor			
		d. Confirm that the smolt supplier used results from 8.9b and 8.9c to calculate energy consumption on the supplier's facility as required and that the units are reported as kilojoule/mt fish/production cycle.					
		Obtain evidence to show that smolt supplier has undergone an energy use assessment in compliance with requirements of Appendix V-1. Can take the form of a declaration detailing a e.					
		Note: see instructions for Indicator 4.6.2.					
		a. Obtain records of greenhouse gas emissions from the smolt supplier's facility.	Connected to 8.9 the greenhouse gas emissions calculation for 2017 is not yet been completed.		Connected to 8.9 the greenhouse gas emissions calculation for 2017 is not		
	Indicator: Records of greenhouse gas (GHG [141]) emissions [142] at the smolt production facility and	b. Confirm that, on at least an annual basis, the smolt supplier calculates all scope 1 and scope 2 GHG emissions in compliance with Appendix V-1.			yet been completed.		
8.10	evidence of an annual GHG assessment (See Appendix V, subsection 1) Requirement: Yes	c. For GHG calculations, confirm that the smolt supplier selects the emission factors which are best suited to the supplier's operation. Confirm that the supplier documents the source of the emissions factors.		Minor			
	Applicability: All Smolt Producers	d. For GHG calculations involving conversion of non-CO2 gases to CO2 equivalents, confirm that the smolt suppliers specify the Global Warming Potential (GWP) used and its source.					
		e. Obtain evidence to show that the smolt supplier has undergone a GHG assessment in compliance with requirements Appendix V-1 at least annually.					
Footnote	[141] For the purpose	s of this standard, GHGs are defined as the six gases listed in the Kyoto Protocol: carbon dioxido	$e\left(\text{CO}_{2}\right);$ methane $\left(\text{CH}_{4}\right);$ nitrous oxide (N2O); hydrofluorocarbons (HFCs); perfluorocarbon	ns (PFCs); and su	phur hexafluoride (SF ₆).		
Footnote		[142] GHG emissions must be recorded using recogn Standards relate	nized methods, standards and records as outlined in Appendix V.				
		Compliance Criteria (Required Client Actions):	a to Principle 5 Auditor Evaluation (Required CAB Actions):				
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	Indicator: Evidence of a fish health management plan, approved by the designated veterinarian, for the	a. Obtain a copy of the supplier's fish health management plan for the identification and	The fish health management plan is the same as the FHMP used on the seawater sites for MHC. The veterinarian Diane Morrison covers all the MHC operations.				
8.11	identification and monitoring of fish diseases and parasites	monitoring of fish disease and parasites.		Compliant			
	Requirement: Yes Applicability: All Smolt Producers	b. Keep documentary evidence to show that the smolt supplier's health plans were approved by the supplier's designated veterinarian.					
	Indicator: Percentage of fish that are vaccinated for	Maintain a list of diseases that are known to present a significant risk in the region, developed by farm veterinarian and supported by scientific evidence.	Vaccinating for viruses is not compulsory in Canada, but the three companies in the BC area have agreed to vaccinate as part of the regional management plan. All fish are vaccinated with two injections with three vaccines. All smolts at this site were				
	Indicator: Percentage of fish that are vaccinated for selected diseases that are known to present a significant risk in the region and for which an effective vaccine exists [143]	b. Maintain a list of diseases for which effective vaccines exist for the region, developed by the farm veterinarian and supported by scientific evidence.	vaccinated against IHN, Furunculosis, BKD and Vibrio. The vaccine used is APEX-IHN, Renogen and Forte micro.				
8.12	Requirement: 100%	c. Obtain from the smolt supplier(s) a declaration detailing the vaccines the fish received.		Compliant			
	Applicability: All Smolt Producers	d. Demonstrate, using the lists from 8.12a-c above, that all salmon on the farm received vaccination against all selected diseases known to present a significant risk in the regions for which an effective vaccine exists.					
Footnote	[143] The farm's designated veterinarian is responsible for	or undertaking and providing written documentation of the analysis of the diseases that pose a consiste	risk in the region and the vaccines that are effective. The veterinarian shall determine went with the analysis.	nich vaccinations	to use and demonstrate to the	e auditor that this decision is	
		Instruction to Clients for Indicator 8.13 Testing of Smolt for Select Diseases The farm is responsible for developing and maintaining a list of diseases of regional concern for (and for which seawater fish-to-fish transmission is a concern).	or which each smolt group should be tested. The list of diseases shall include diseases the	it originate in fre	shwater and are proven or su	spected to occur in seawater	
		The designated veterinarian to the smolt supplier is required to evaluate, based on scientific criteria and publicly available information, which diseases should be tested for. This analysis shall include an evaluation of whether clinical disease or a pathogen carrier state in fresh water is deemed to have a negative impact on the grow-out phase, thereby disqualifying a smolt group from being transferred. The analysis must be available to the CAB upon request.					
8.13	Indicator: Percentage of smolt groups [144] tested for select diseases of regional concern prior to entering the grow-out phase on farm	Note: A "smolt group" is defined as a population that shares disease risk, including environme	nt, husbandry, and host factors that might contribute to sharing disease agents for each	group.			
	Requirement: 100% Applicability: All Smolt Producers	Obtain from the smolt supplier a list of diseases of regional concern for which smolt should be tested. List shall be supported by scientific analysis as described in the Instruction above.	Prior to transfer, smolts are tested for diseases such as VHS, BKD, IPN, ISA and bacterial diseases.	Constitut			
		b. Obtain from the smolt supplier(s) a declaration and records confirming that each smolt group received by the farm has been tested for the diseases in the list (8.13a).		Compliant			
Footnote	originating in freshwater should be on the list of diseases	er isk, including environment, husbandry and host factors that might contribute to sharing dise tested. The designated veterinarian to the smolt farm is required to evaluate, based on scienti er state in fresh water is deemed to have a negative impact on the grow-out phase, thereby dis	fic criteria and publicly available information, which diseases should be tested for. This a	nalysis shall inclu	de an evaluation of whether		
	Indicator: Detailed information, provided by the designated veterinarian, of all chemicals and therapeutants used during the smolt production cycle, the amounts used (including grams per ton of fish produced), the dates used, which group of fish were	a. Obtain from the smolt supplier(s) a detailed record of all chemical and therapeutant use for the fish sold to the farm that is signed by their veterinarian and includes: - name of the veterinarian prescribing treatment; - product name and chemical name; - reason for use (specific disease)	There has been only one use of an antibiotic used in one of the hatcheries and this was to treat 4 tanks due to ERM at Ocean falls. This was in 2016. See 8.16. Incoming water is disinfected with Ozone. All other chemical or therepeutant use is recorded on Aquafarmer for example MS222 used for anesthetizing fish. Formalin used to treat Fungus.				
8.14	treated and against which diseases, proof of proper dosing and all disease and pathogens detected on the site	- date(s) of treatment; - amount (g) of product used; - dosage;		Compliant			
	Requirement: Yes Applicability: All Smolt Producers	 - mt of fish treated; - the WHO classification of antibiotics (also see note under 5.2.8); and - the supplier of the chemical or therapeutant. 					
		a. Provide to the smolt supplier the list (see 5.2.2a) of therapeutants, including antibiotics and chemicals, that are proactively banned for use in food fish for the primary salmon producing and importing countries listed in [146].	Marine Harvest International has an extensive list of countries and their allowable and unallowable contaminants, drugs and microbiology and statutory limits for fish for all these growing areas. This database is updated when a country changes its limits by anybody in the Marine harvest organisation that has the current information. Every				
	Indicator: Allowance for use of therapeutic treatments that include antibiotics or chemicals that are banned [145] in any of the primary salmon producing or	b. Inform smolt supplier that the treatments on the list cannot be used on fish sold to a farm with ASC certification.	possible worldwide therapeutant is listed. Marine Harvest Canada also have a medicine positive list showing drugs allowable however in the case of Tribrissen even though its allowed MHC no longer uses it for the US market. Even though there is a nositive list it does not mean that the treatments are used				

Footnote: [146] Favored means proachedly prohibited by a government entity lecause of concerns around the footnote: [146] For purposes of this standard, those countries are footnote indicator: Number of treatments of ambibotics over the most recent production cycle. 8.10 8.10 8.10 8.10 8.20 8.20 8.21 8.21 8.21 8.21 8.21 8.21 8.22 8.22 8.22 8.23 8.23 8.24 8.21 8.24 8.25	rmer system locks in place the criptions. Maxxam in Vancouver srvest. They are accredited to andatory from CFIA.	iant	
Economic (146) For purposes of this standard, those countries are Norway, the IX. Calculate the Interest States, Jan Midistors. Number of treatments of antibiotics over the not recent production cycle.			
midicator. Number of treatments of antibiotics over the most recent production cycle 8.16 8.16 8.16 8.16 8.16 8.17 Applicability: All Smoot Producers 8.18 8.18 8.18 Requirement: None [18] 8.17 Requirement: None [18] 8.18 8.18 8.18 8.18 8.18 8.18 8.18 8.19 Requirement: Yes Applicability: All Smoot Producers 1(147) 1(substance.		
a. Obtain from the smolt supplier records of all treatments of antibiotics (see 8.14a). D. Calculate the total number of treatments of antibiotics from their most recent production (vice. Applicability: All Smolt Producers Applicability: All S	apan and France.		
Applicability: All Smolt Producers Indicator: Allowance for use of antibiotics listed as circle in production (ILA) Informs smolt supplier's records for antibiotic usage (B.14, 8.15s) with the WHO list (B.17a) cannot be used on fish producers Informs smolt supplier's records for antibiotic usage (B.14, 8.15s) with the WHO list (B.17a) cannot be used on fish producers Informs smolt supplier's records for antibiotic usage (B.14, 8.15s) with the WHO list (B.17a) conform that no antibiotics listed as critically important for human medicine by the form. C. Compare smolt supplier's records for antibiotic usage (B.14, 8.15s) with the WHO list (B.17a) to confirm that no antibiotics listed as critically important for human medicine by the form. Informs smolt supplier's records for antibiotic usage (B.14, 8.15s) with the WHO list (B.17a) to confirm that no antibiotics listed as critically important for human medicine by the form. Informs smolt supplier's records for antibiotic usage (B.14, 8.15s) with the WHO list (B.17a) cannot be used on fish produced by the farm. Informs smolt supplier's records for antibiotic usage (B.14, 8.15s) with the WHO list (B.17a) to confirm that no antibiotics listed as critically important for human medicine by the WHO list (B.17a) to confirm that no antibiotics listed as critically important for human medicine by the WHO list (B.17a) to confirm that no antibiotics listed as critically important for human medicine by the WHO list (B.17a) to confirm that no antibiotics listed as critically important for human medicine by the WHO list of critically and highly important for human medicine by the WHO list of critically and highly important for human important for human importance. Informs the supplier's records for antibiotic listed as critically important for human importance. Informs the supplier state of t	and 23. Prescription number RX16-	liant	1
Indicator: Allowance for use of antibiotics listed as critically important for human medicine by the WHO [1st of antimicrobials critically important for human medicine by the WHO [1st of antimicrobials critically important for human medicine by the WHO [1st of antimicrobials critical importance.] Requirement: None [148] Applicability: All Smolt Producers Footnote [147] The 3rd edition of the WHO list (8.17a) cannot be used on fish sold to a farm with ASC certification. [147] The 3rd edition of the WHO list (8.17a) with the WHO list (8.17a) to confirm that no antibiodic listed as critically important for human medicine by the WHO were used on fish purchased by the farm. [147] The 3rd edition of the WHO list of critically and highly important antimicrobials was released in 2009 and is available at: http://www.who.more. [147] The 3rd edition of the WHO list of critically and highly important antimicrobials was released in 2009 and is available at: http://www.who.more. [148] If the ambibiodic treatment is applied to only a portion of the pens on a farm site, fish from pens that did not receive treatments applied to only a portion of the pens on a farm site, fish from pens that did not receive treatments applied to only a portion of the pens on a farm site, fish from pens that did not receive treatments applied to only a portion of the pens on a farm site, fish from pens that did not receive treatments applied to only a portion of the pens on a family with policies and procedures that current version of the OIE Aquatic Animal Health Code. 8. Provide the smolt supplier with a current version of the OIE Aquatic Animal Health Code. 8. Provide the smolt supplier with a current version of the OIE Aquatic Animal Health Code. 9. Inform the supplier had an ASC certified farm can only source smolt from a facility with policies and procedures that are relevant to demonstrate compliance with the OIE Aquatic Animal Health Code. 1[49] Compliance is defined as farm practices consistent with the intentions of the Code,			-
147 Solitor of a farm with ASC certification.			
Applicability: All Smolt Producers Compares months supplier's records for antibiotic usage (8.14, 8.15a) with the WHO list (8.17a) to confirm that no antibiotic listed as critically important for human medicine by the WHO were used on fish purchased by the farm. Footnote	Compliant	iant	0
Toolnote (248) If the antibiotic treatment is applied to only a portion of the pens on a farm site, fish from pens that did not receive treatment is applied to only a portion of the pens on a farm site, fish from pens that did not receive treatment is applied to only a portion of the pens on a farm site, fish from pens that did not receive treatment is applied to only a portion of the pens on a farm site, fish from pens that did not receive treatment is applied to only a portion of the pens on a farm site, fish from pens that did not receive treatment is applied to only a portion of the pens on a farm site, fish from pens that did not receive treatment is applied to only a portion of the pens on a farm site, fish from pens that did not receive treatment is applied to only a portion of the pens on a farm site, fish from pens that did not receive treatment is applied to only a portion of the pens on a farm site, fish from pens that did not receive treatment is applied to only applied to only applied to any applied to only applied to onl			
Note: see instructions for indicator 5.4.3 regarding evidence of compliance with the OIE Aquatic Animal Health Code. Indicator: Evidence of compliance [149] with the OIE Aquatic Animal Health Code [150] Requirement: Yes Applicability: All Smolt Producers Footnote [149] Compliance is defined as farm practices consistent with the intentions of the Code, to be further outlined in auditing guidance. For purposes of this standard, this includes an aggressive response to implementation of quarantine zones in accordance with guidelines from OIE for the specific pathogen. Exotic signifies not previously found in the area or h for the supplier of smolt supplier's company-level policies and procedures in line with the labor standards under 6.1 to 6.11 Requirement: Yes Applicability: All Smolt Producers Note: see instructions for indicator 5.4.3 regarding evidence of compliance with the OIE Aquatic Animal Health Code (or inform the supplier with a current version of the OIE Aquatic Animal Health Code in the Fish Health plan includes a link for OIE and re in the Fish Health plan includes a link for OIE and re in the Fish Health Plan includes a link for OIE and re in the Fish Health Plan includes a link for OIE and re in the Fish Health Plan includes a link for OIE and re link for OIE and re in the Fish Health Plan includes a link for OIE and re in the Fish Health Plan includes a link for OIE and re link for OIE and responsible of the OIE Aquatic Animal Health Code. Cobtain a declaration from the supplier stand procedures that are relevant to demonstrate compliance with the intentions of the Code, to be further outlined in auditing guidance. For purposes of this standard, this includes an aggressive response to implementation of quarantine zones in accordance with guidelines from OIE for the specific pathogen. Exotic signifies not previously found in the area or he implementation of quarantine zones in accordance with guidelines from OIE for the specific pathogen. Exotic signifies not previously found in the area or	who.int/foodborne_disease/resistance/CIA_3.pdf.	df.	
Indicator: Evidence of compliance [149] with the OIE Aquatic Animal Health Code [150] 8.18 Requirement: Yes Applicability: All Smolt Producers Footnote [149] Compliance is defined as farm practices consistent with the intentions of the Oie, and procedures that ensure that produces in plementation of quarantine zones in accordance with guidelines from OIE for the specific pathogen. Exotic signifies not previously found in the area or h Standards related to Principle 6 A copy of the OIE code is available to all staff throw in the Fish Health plan includes a link for OIE and re on the Fish Health plan includes a link for OIE and re on the Fish Health plan includes a link for OIE and re on the Fish Health plan includes a link for OIE and re on the Fish Health plan includes a link for OIE and re on the Fish Health plan includes a link for OIE and re on the Fish Health plan includes a link for OIE and re on the Fish Health plan includes a link for OIE and re on the Fish Health plan includes a link for OIE and re on the Fish Health plan includes a link for OIE and re on the Fish Health plan includes a link for OIE and re on the Fish Health plan includes a link for OIE and re on the Fish Health plan includes a link for OIE and re on the Fish Health plan includes a link for OIE and re on the Fish Health plan includes a link for OIE and re on the Fish Health plan includes a link for OIE and re on the Fish Health plan includes a link for OIE and re on the Fish Health Plan includes a link for OIE and re on the Fish Health Plan includes a link for OIE and re on the Fish Health Plan includes a link for OIE and re on the Fish Health Plan includes a link for OIE and re on the Fish Health Plan includes a link for OIE and re on the Fish Health Plan includes a link for OIE and re on the Fish Health Plan includes a link for OIE and reported and procedures are repeated to Principle 6 Standards related to Principle 7 Compliance Citeria (Required Client Actions): Auditor Evaluation (Required Client Actions): Standards relate	ment are still eligible for certification.		
Indicator: Evidence of compliance [149] with the OIE Aquatic Animal Health Code [150] Requirement: Yes Applicability: All Smolt Producers Footnote [149] Compliance is defined as farm practices consistent with the intentention of quarantine zones in accordance with guidelines from OIE for the specific pathogen. Exotic signifies not previously found in the area or h procedures in line with the labor standards under 6.1 to 6.11. 8.19 Requirement: Yes Applicability: All Smolt Producers Indicator: Evidence of company-level policies and procedures in line with the labor standards under 6.1 to 6.11. Standards related to Principle 7 Compliance with the requirements of labor standards under 6.1 to 6.11. Standards related to Principle 7 Auditor Evaluation (Required CAB Actions): Standards related to Principle 7 Auditor Evaluation (Required CAB Actions): Compliance Criteria (Required Client Actions): Applicability: All Smolt Producers Compliance Criteria (Required Client Actions): Applicability: All Smolt Producers Compliance Criteria (Required Client Actions): Applicability: All Smolt Producers Compliance Criteria (Required Client Actions): Auditor Evaluation (Required CAB Actions): Auditor Evaluation (Required CAB Actions): Compliance Criteria (Required Client Actions): Auditor Evaluation (Required CAB Actions):			
8.18 Requirement: Yes Applicability: All Smolt Producers Lag Compliance is defined as farm practices consistent with the intentions of the Code, to be further outlined in auditing guidance. For purposes of this standard, this includes an aggressive response to implementation of quarantine zones in accordance with guidelines from OIE for the specific pathogen. Exotic signifies not previously found in the area or him procedures in line with the labor standards under 6.1 to 6.11 Requirement: Yes Applicability: All Smolt Producers			
copies of the smolt suppliers policies and procedures that are relevant to demonstrate compliance with the OIE Aquatic Animal Health Code. [149] Compliance is defined as farm practices consistent with the intentions of the Code, to be further outlined in auditing guidance. For purposes of this standard, this includes an aggressive response to implementation of quarantine zones in accordance with guidelines from OIE for the specific pathogen. Exotic signifies not previously found in the area or how the procedures in the code and procedures in line with the labor standards under 6.1 to 6.11 8.19 Requirement: Yes Applicability: All Smolt Producers Compliance Criteria (Required Client Actions): D. Review the documentation and declaration from 8.19a to verify that smolt supplier's policies and procedures are in compliance with the requirements of labor standards under 6.1 to 6.11. Standards related to Principle 7 Standards related to Principle 7 Compliance Criteria (Required Client Actions): Auditor Evaluation (Required CAB Actions): Standards related to Principle 7 Auditor Evaluation (Required CAB Actions):	Compliant	iant	
Footnote implementation of quarantine zones in accordance with guidelines from OIE for the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic signifies not previously found in the area or host of the specific pathogen. Exotic significant has not previously found in the area or host of the specific pathogen has not principle for the specific pathogen. Exotic pathogen has not principle for the specific pathogen has no			
Standards related to Principle 6 Compliance Criteria (Required Client Actions): Indicator: Evidence of company-level policies and procedures in line with the labor standards under 6.1 to 6.11 8.19 Requirement: Yes Applicability: All Smolt Producers Description: Compliance Criteria (Required Client Actions): Applicability: All Smolt Producers Standards related to Principle 6 Additor Evaluation (Required CAB Actions): The same policies apply as detailed in Principle 6 as of compliance with the labor standards under 6.1 to 6.11. b. Review the documentation and declaration from 8.19a to verify that smolt supplier's policies and procedures are in compliance with the requirements of labor standards under 6.1 to 6.11. Standards related to Principle 7 Compliance Criteria (Required Client Actions): Auditor Evaluation (Required CAB Actions):			ting the infected site and
Compliance Criteria (Required Client Actions): Auditor Evaluation (Required CAB Actions):			
Indicator: Evidence of company-level policies and procedures in line with the labor standards under 6.1 to 6.11 8.19 Requirement: Yes Applicability: All Smolt Producers Description: Applicability: All Smolt Producers Applicability: All Smolt Producers Description: Compliance Criteria (Required Client Actions): A Obtain copies of smolt supplier's company-level policies and procedures and a declaration of compliance with the labor standards under 6.1 to 6.11. The same policies apply as detailed in Principle 6 as of compliance with the labor standards under 6.1 to 6.11. Standards related to Principle 7 Compliance Criteria (Required Client Actions): Auditor Evaluation (Required CAB Actions):			
a. Obtain copies of smolt supplier's company-level policies and procedures and a declaration of compliance with the labor standards under 6.1 to 6.11 8.19 Requirement: Yes Applicability: All Smolt Producers b. Review the documentation and declaration from 8.19a to verify that smolt supplier's policies and procedures are in compliance with the requirements of labor standards under 6.1 to 6.11. Standards related to Principle 7 Compliance Criteria (Required Client Actions): Auditor Evaluation (Required CAB Actions):			
Requirement: Yes b. Review the documentation and declaration from 8.19a to verify that smolt supplier's policies and procedures are in compliance with the requirements of labor standards under 6.1 to 6.11. Standards related to Principle 7 Compliance Criteria (Required Client Actions): Auditor Evaluation (Required CAB Actions):			
Standards related to Principle 7 Compliance Criteria (Required Client Actions): Auditor Evaluation (Required CAB Actions):	N/A	1	
Compliance Criteria (Required Client Actions): Auditor Evaluation (Required CAB Actions):			
Farms must comply with Indicator 7.1.1 which requires that farms engage in regular consultation and engagement with community representative equivalent requirement. Farms are obligated to maintain evidence that is sufficient to show their suppliers remain in full compliance. Evidence share the smolt supplier engaged in "regular" consultations with the local community at least twice every year (bi-annually): - the smolt supplier engaged in "regular" consultations with the local community at least twice every year (bi-annually): - the supplier's consultations were effective (e.g. using participatory Social Impact Assessment (DSA) or similar methods); and - the supplier's consultations included participation by elected representatives from the local community who were asked to contribute to the age: - the supplier's consultations included participation by elected representatives from the local community who were asked to contribute to the age:	hall be documentary (e.g. meeting agenda, minutes,		

	Applicability: All Smolt Producers	a. From each smolt supplier obtain documentary evidence of consultations and engagement with the community.	The same consultations as detailed in principle 7.	N/A		
		b. Review documentation from 8.20a to verify that the smolt supplier's consultations and community engagement complied with requirements.		NA		
8.21	Indicator: Evidence of a policy for the presentation, treatment and resolution of complaints by community stakeholders and organizations Requirement: Yes Applicability: All Smolt Producers	a. Obtain a copy of the smolt supplier's policy for presentation, treatment and resolution of complaints by community stakeholders and organizations.	The same consultations as detailed in principle 7.	N/A		
8.22	Indicator: Where relevant, evidence that indigenous groups were consulted as required by relevant local and/or national laws and regulations Requirement: Yes Applicability: All Smolt Producers	a. Obtain documentary evidence showing that the smolt supplier does or does not operate in an indigenous territory (to include farms that operate in proximity to indigenous or aboriginal people (see Indicator 7.2.1). If not then the requirements of 8.22 do not apply. b. Obtain documentation to demonstrate that, as required by law in the jurisdiction: smolt supplier consulted with indigenous groups and retains documentary evidence (e.g. meeting minutes, summaries) to show how the process complies with 7.2.1b; OR smolt supplier confirms that government-to-government consultation occurred and obtains documentary evidence.	The same consultations as detailed in principle 7.	N/A		
8.23	Indicator: Where relevant, evidence that the farm has undertaken proactive consultation with indigenous communities Requirement: Yes Applicability: All Smolt Producers	a. See results of 8.22a (above) to determine whether the requirements of 8.23 apply to the smolt supplier. b. Where relevant, obtain documentary evidence that smolt suppliers undertake proactive consultations with indigenous communities.	The same consultations as detailed in principle 7.	N/A		
	Applicability. All silloit Floudicers					
	Applicability. All amolt Froducers	ADDITIONAL REQUIREMENTS FOR OPE In addition to the requirements above, if the smolt is produced in an i				
	to Clients for Indicators 8.24 through 8.31 - Requirements	In addition to the requirements above, if the smolt is produced in an	open system, evidence shall be provided that the following are met:	4 - 8.31 are appli	cable.	
	to Clients for Indicators 8.24 through 8.31 - Requirements	In addition to the requirements above, if the smolt is produced in an offer Smolt Produced in Open Systems Ction system(s) from which they source smolt. If smolt used by the farm are produced, for part of the system of the sy	open system, evidence shall be provided that the following are met:	4 - 8.31 are appli	cable.	
	to Clients for Indicators 8.24 through 8.31 - Requirements provide documentary evidence to the CAB about the product in the control of the co	In addition to the requirements above, if the smolt is produced in an of for Smolt Produced in Open Systems tion system(s) from which they source smolt. If smolt used by the farm are produced, for part of the system which they source smolt. If smolt used by the farm are produced, for part of the system which they source smolt supplier stating whether the supplier operates in water bodies with native salmonids. b. Request smolt suppliers to identify all water bodies in which they operate net pens for producing smolt and from which facilities they sell to the client. c. For any water body identified in 8.24b as a source of smolt for the farm, determine if	open system, evidence shall be provided that the following are met: or all of the growth phase from alevin to smolt, in open (net-pen) systems, indicators 8.2		cable.	

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	Requirement: Yes	d. Review information to confirm that the total biomass in the water body is within the limits established in the assessment (8.26a).				
	Applicability: All Smolt Producers Using Open Systems	established in the assessment (o.eas).				
		e. If the study in 8.26a is more than two years old and there has been a significant increase in nutrient input to the water body since completion, request evidence that an updated assessment study has been done.				
Footnote		[151] E.g., Governme	ent body or academic institution.	L		
Footnote		[152] If the study is older than two years, and there has been a significant increase in nutri		nt is required.		
8.27	Indicator: Maximum baseline total phosphorus concentration of the water body (see Appendix VIII-6) Requirement: ≤ 20 µg/l [153] Applicability: All Smolt Producers Using Open Systems	Instruction to Clients for Indicator 8.27 and 8.28 - Monitoring TP and DO in Receiving Water Farms must confirm that any smolt supplier using an open (net-pen) system is also engaged in only re-stated briefly here. Monitoring shall sample total phosphorus (TP) and dissolved oxyge are submitted to an accredited laboratory for analysis of TP to a method detection limit of < 0. The required sampling regime is as follows: - all stations are identified with GPS coordinates on a map of the farm and/or available satellities stations are at the limit of the farm management zone on each side of the farm, roughly 50 n - the spatial arrangement of stations is shown in the table in Appendix VIII-6; - sampling is done at least quarterly (1X per 3 months) during periods without ice, including persamples are also collected at two reference stations located ~ 1-2 km upcurrent and downcu. Note: Some flexibility on the exact location and method of sampling is allowed to avoid smolt an Obtain documentary evidence to show that smolt suppliers conducted water quality monitoring in compliance with the requirements of Appendix VIII-6. b. Obtain from smolt suppliers a map with GPS coordinates showing the sampling locations. c. Obtain from smolt suppliers the TP monitoring results for the past 12 months and calculate the average value at each sampling station. d. Compare results to the baseline TP concentration established below (see 8.29) or determined by a regulatory body.	monitoring of water quality of receiving waters. Requirements for the supplier's water or (DO). TP is measured in water samples taken from a representative composite sample 002 mg/L. DO measurements will be taken at 50 centimeters from the bottom sedimen e imagery; neters from the edge of enclosures; eak biomass; and rerent from the farm.	through the wat		
		e. Confirm that the average value for TP over the last 12 months did not exceed 20 ug/l at any of the sampling stations nor at the reference station.				
Footnote		[153] This concentration is equivalent to the upper limit of the	Mesotrophic Trophic Status classification as described in Appendix VIII-7.			
		Note: see instructions for Indicator 8.27.				
0.00	Indicator: Minimum percent oxygen saturation of water 50 centimeters above bottom sediment (at all oxygen monitoring locations described in Appendix VIII-6)	a. Obtain evidence that smolt supplier conducted water quality monitoring in compliance with the requirements (see 8.27a).	Land-based hatcheries.			
8.28	Requirement: ≥50% Applicability: All Smolt Producers Using Open Systems	b. Obtain from smolt suppliers the DO monitoring results from all monitoring stations for the past 12 months.		N/A		
		c. Review results (8.28b) to confirm that no values were below the minimum percent oxygen saturation.				
		a. Obtain documentary evidence from the supplier stating the trophic status of water body if previously set by a regulator body (if applicable).	Land-based hatcheries.			
8.29	Indicator: Trophic status classification of water body remains unchanged from baseline (see Appendix VIII-7)	b. If the trophic status of the waterbody has not been classified (see 8.29a), obtain evidence from the supplier to show how the supplier determined trophic status based on the concentration of TP.		N/A		
	Requirement: Yes Applicability: All Smolt Producers Using Open Systems	c. As applicable, review results from 8.29b to verify that the supplier accurately assigned a trophic status to the water body in accordance with the table in Appendix VIII-7 and the observed concentration of TP over the past 12 months.		,		
		d. Compare the above results (8.29c) to trophic status of the water body as reported for all previous time periods. Verify that there has been no change.				

	Indicator: Maximum allowed increase in total	a. Determine the baseline value for TP concentration in the water body using results from either 8.29a or 8.29b as applicable.	Land-based hatcheries.		
8.30		b. Compare the baseline TP concentration (result from 8.30a) to the average observed TP concentration over the past 12 months (result from 8.27e).		N/A	
	Applicability: All Smolt Producers Using Open Systems	c. Verify that the average observed TP concentration did not increase by more than 25% from baseline TP concentration.			
8.31		 a. Obtain a declaration from the farm's smolt supplier stating that the supplier does not use aeration systems or other technological means to increase oxygen levels in the water bodies where the supplier operates. 	Land-based hatcheries.	N/A	

ADDITIONAL REQUIREMENTS FOR SEMI-CLOSED AND CLOSED PRODUCTION OF SMOLTS

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

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

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

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

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

Footnote		[154] Production systems that don't discha	arge into fresh water are exempt from these standards.			
	Indicator: Water quality monitoring matrix completed and submitted to ASC (see Appendix VIII-2)	a. Obtain records from smolt suppliers showing that water quality monitoring was conducted at least quarterly (i.e. once every 3 months) over the last 12 months.	The sampling is carried out monthly. Testing includes Total ammonia, BOD, Nitrate, Nitrite, Total phosphorus and TSS. The data has been submitted to ASC.			
8.32	Requirement: Yes [155]	b. Obtain water quality monitoring matrix from smolt suppliers and review for completeness.		Compliant		
	Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems	c. Submit the smolt supplier's water quality monitoring matrix to ASC as per Appendix VIII-2 and Appendix VI at least once per year.				
Footnote		[155] See Appendix VI fo	r transparency requirements for 8.32.			
	Indicator: Minimum oxygen saturation in the outflow	a. Obtain the water quality monitoring matrix from each smolt supplier (see 8.32b).	Bigtree Creek Oxygen levels in the effluent averages 86.5% and lowest reading was 77%. Dalrymple Oxygen levels in the effluent averages 75.3% and lowest reading was 57.8%, and this resulted in daily readings that showed readings above 60%. Ocean falls			
8.33	(methodology in Appendix VIII-2) Requirement: 60% [156,157]	b. Review the results (8.33a) for percentage dissolved oxygen saturation in the effluent to confirm that no measurements fell below 60% saturation.	oxygen levels in the affluent area all above 80%.	Compliant		
	Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems	c. If a single DO reading (as reported in 8.33a) fell below 60%, obtain evidence that the smolt supplier performed daily continuous monitoring with an electronic probe and recorder for a least a week demonstrating a minimum 60% saturation at all times (Appendix VIII-2).				
Footnote	[156	s] A single oxygen reading below 60 percent would require daily continuous monitoring with an	electronic probe and recorder for at least a week demonstrating a minimum 60 percent	saturation at all	times.	
Footnote		[157] See Appendix VI for	r transparency requirements for 8.33.			
	Indicator: Macro-invertebrate surveys downstream from the farm's effluent discharge demonstrate benthic health that is similar or better than surveys upstream from the	a. Obtain documentation from smolt supplier(s) showing the results of macro-invertebrate surveys.	For Big Tree, the report from 2016 is based on samples taken by Mainstream biological and was analysed and written up by Biological based in Victoria. The report states that the water downstream shows no effect on the water and benthos from the hatchery. Dalrymple has seen a slight impact from effluent and the company has			
8.34	discharge (methodology in Appendix VIII-3) Requirement: Yes	b. Review supplier documents (8.34a) to confirm that the surveys followed the prescribed methodology (Appendix VIII-3).	been sampling twice per year. The report in section 3.1.4 states that the macroinvertebrate community upstream and downstream is both classed as Category 4 communities.	Compliant		
	Applicability: All Smolt Producers Using Semi-Closed or Closed Production Systems	c. Review supplier documents (8.34a) to confirm the survey results show that benthic health is similar to or better than upstream of the supplier's discharge.				
	Indicator: Evidence of implementation of biosolids	a. Maintain a copy of smolt supplier's biosolids (sludge) management plan and confirm that the plan addresses all requirements in Appendix VIII-2.	As Ocean falls discharges to the sea its exempt from this indicator. Big tree Creek sludge removal by Able and ready February 2018. Invoice number 16651 and 750 gallons removed. Invoice dated 27/4/18 and number 34978 Details were for Vacuum			
g 35	(sludge) Best Management Practices (BMPs) (Appendix VIII-4)	b. Obtain from smolt suppliers a process flow diagram (detailed in Appendix VIII-2) showing how the farm is dealing with biosolids responsibly.	up fish compost at Dalrymple hatchery. The provider was Walco Industries Ltd, Port Alberni.	Compliant		

bility: All Smolt Producers Using Semi-Closed or	c. Obtain a declaration from smolt supplier stating that no biosolids were discharged into natural water bodies in the past 12 months.	Compilant	
	d. Obtain records from smolt suppliers showing monitoring of biosolid (sludge) cleaning maintenance, and disposal as described in Appendix VIII-2.		



11 Findings
11.1 FEET ANY COLUMN
11.2 ly populated from the species checklist/audit manual
11.3 indard indicator or a CAR requirement
11.4 o your liking (e.g. grading, status, closure deadline, etc.)

11.5 i new rows as needed 11.6 ide as needed - to show the whole text

No refe end		Grade of NC	Description of NC	Evidence	Date of detection	Status	Related VR (#)	Root cause (by client)	Corrective/ preventive actions proposed by UoC and accepted by CAB	Deadline for NC close-out	Evaluation by CAB (including evidence)	Actual date of close- out	Date request for delay received	Justification for delay	Next deadline	Request evaluation by CAB	Date request approved
1	2.1.1	Minor	The sampling test results have not yet been sent to ASC as some of the biological data is not yet been processed, and the intention is to submit it all to ASC at the same time.	The map of the site is available and has been put together internally by Marine Narvest. Sampling has been based on the AUTODEPOMOD system with the stations located accordingly. The site has a soft of the stations of the AUTODEPOMOD system with the stations located accordingly. The site has a soft of the sampling was carried out by qualified staff following the ACx requirements store by the Var Newrop 20th. Effects showing gabs and samples were presented. Sampling was carried out a 75% of pass production for the ide staded shin 40 feb. May 2018. An Oxford -4star meter with appropriate ES probes is used. Results of all the stations of 35 show compliance with the requirements for subplinds. The lowest reading was 5.91, and the highest reading was 1.00. The sampling results have not yet been serted to AC sac some of the biological data is not yet been processed, and the intertion is to Automatical the sampling shall be supplied with the results of the outdated benthis capable of the station of the ACM stations and state of the Value of the Value of the Value of the Value of the Value of the Value of the Value of the Value of the Value of the Value of the Value of Val	08/06/2018	Closed	ма	Not all benthic parameters are complete, and final report has not been written.	Sulfide results are within ASC limits, and will be submitted with a final bemthic report once biological parameters are analysed.	8/9/18 or by agreed plan	Sulfide results are within ASC limits, and will be submitted with a final benthir report once biological. Update from the 7/9/18. Sampling was carried out at peak biomass and dated July 24th 2018 and conducted by Mainstream Environmental. The results show that all a Outside the XF stations and for each regizate, the levels of sulphides were all margin. The lovest reading was 2.3 and the highest reading was 130. Mean results were Station A: 83.7. Station 8: 41.7 and Station C: 48.57. The reference site level was 3.66. Accepted Paul Casburn	7/9/18	NA	NA	NA	NA	NA
2	2.1.2	Minor	The sampling test results have not yet been sent to ASC as some of the biological data is not yet been processed, and the intention is to submit it all to ASC at the same time. Update: A VR has been allowed by ASC number 224.	The map in place as described in 2.1. Option 4 has been chosen for this size. The TT scores are not yet available. Audit update. ACC have granted a VR number 22-k in relation to 2.1.2 and 2.1.3. This VR instand relets on the scientifically power and federally regulated suifides surrogates. Intellet place in the properties of the surrogate intellet place in the place of the place in the place of the place in the place of the place in the place	08/06/2018	Closed	NA.	three months, while samples have been taken, analysis has	Analysis underway by Columbia Science. Results expected in late July, Future cycles will rely on historical data and samples will continue to be taken/analysed at peak blomass.	8/9/18 or by agreed plan	Update from the 7/9/18. Sampling was carried out at peak blomas and dated luly 24th 2018 and conducted by Mainterame Environmental Results are pending. Plan to submit these results when they bocome available accepted. Paul Calbum Update 25/11/18. VR 224 has been allowed.	25/11/18	NA	NA	NA	NA	NA
3	2.1.3	Major	The Macrofaunal results for Heath Bay are not yet available as the results are being analysed and therefore cannot be reviewed for compliance with the standard at this time. There is no historical data for this site.	MHC staff conducted samples at Heath, analysis done by Columbia Science. The Macrofaunal results for heath Bay are not yet available as the results are being analysed and therefore cannot be reviewed for compliance to the standard at this time. There is no historical benthic data for this site. Audit update: Email dated 22/10/18 from Marine Harvest, which shows the results for the stations are 15,13 and 7 non pollution indicator species inside the zone of effect.	08/06/2018	Closed	NA.	three months, while samples have been taken, analysis has	Analysis underway by Columbia Science. Results expected in late July, Future cycles will rely on historical data and samples will continue to be taken/analysed at peak biomass.	8/9/18	Update from the 7/9/18. Sampling was carried out at peak blomass and dated July 24th 2018 and conducted by Mainstream Environmental. Results are pending. Update 3/10/18. An enail was received by the auditor from Shaw analytical dated the 1st of Cotoker. This mail reported that 'A' LEAST 6 Highly Dominant Taxa at the Inside A2EA station. Futher enail added 22/10/18 which shows the results for the stations are 15,13 and 7 non pollution indicator species inside the zone of effect,	22/10/18	NA	NA	NA	NA	NA
4	4.1.1	Minor	There are no quantities of Marine Ingredients shown to allow verification, which the ASC compliant ingredients are greater than the non-ASC compliant Marine Ingredients based on option 2 and Mass balance.	The only feed supplier is Siretting. The location of the production unit is in Richmond BC. Siretting Canada has GAA BAP certification of the Siretting Canada has GAA BAP certification. Cert number INIT/ROADS. SGG is the CB. Siretting also assures. Cert number INIT/ROADS. SGG is the CB. Siretting also assures that Canada the Canada in Ingerdents that nate up oner than 15 cert feet acceptancy has declared that they will be adopting member 2 for mass ablance. They also hold certifications useful oscillations of SGG 90012008, NACCP, BAP and Sirettings Nutrace internal standard.	08/06/2018	Closed	NA .	Oversight from feed supplier	E mail sent from Marine Harvest Canada dated 6th July with information supplied from the feed company FUOS. The period-land 217 – Dec 2017. This broke down the information That was missing from the audit explaing the mass balance.	8/9/18 or by agreed plan	Email and evidence reviewed by the auditor. Evidence accepted. Paul Cashum.	14th July 2018	NA NA	NA	NA	NA .	NA
5	5.1.1	Minor	The Veterinary health plan advises the removal of moribund fish and they should be humanely euthanized however there is no appropriate tool or method in place on site for this action.	Fish health management plan dated October 2017. The updates include requirements for moving fish and refers to the SOP's SM95S, SW 138, SW 812 and FW 260. The plan is submitted to the DFO for part of the license requirements. The Fish health plan was superade by Diane Morrison DVM the company Vet in October 2017.	08/06/2018	Closed	NA NA		Fish bonker has been purchased by site and will be used in future.		Email and evidence reviewed by the auditor. Evidence accepted. Paul Cusburn.	19th July 2018.	NA .	NA	NA	NA	NA

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6 6.5	.1 Majo	The facility has established procedures and policies to protect employees. These are communicated within the furnam Resources policy and the Marine Harvest Code of Conduct section 4.1. Simpleyment of the Conduct section 4.1. Simpleyment of the Conduct section 4.1. Simpleyment of the Conduct section 4.1. Marine Harvest tries to ensure that the employee notice books it setable and safely training is control to training software namagement systems (NAT) varianing is control to the section 4.1 sets of the Health & Safety rules and the section 4.1 sets on the Health & Safety rules All sites shall establish annual safety targets with action plans (what, who, when) All sites shall establish annual safety targets with action plans (what, who, when) All sites shall establish annual safety targets with action plans (what, who, when) All sites shall establish annual safety targets with action plans (what, who, when) All sites shall establish annual safety targets with action plans (what, who, when) All sites shall establish annual safety targets with action plans (what, who, when) All sites shall establish annual safety targets with action plans (what, who, when) All sites shall establish annual safety targets with action plans (what, who, when) All sites shall be shall pass and sites with action plans (what, who, when) A new support of the safety meetings on a regular basis A risk assessment concerning safety shall be made for all policy, equipment, and potentially hazardous materials, with an annual review made of those, considered most critical A vote permit system shall be in place to include clock cut gar opt procedures and to safeguard work in confined spaces All accidents and near-misses while the place and establish place as a set you procedure saint on safeguard work in confined spaces All accidents and near-misses while the place and estable at least once every year All all accidents and near-misses and to safeguar and tested at least once every year All all accidents and near-misses and the p	The operations team training on DATS was as low as 12 percent for some workers and supervisor. It was noted that a lot of health and safety training was not completed or expired. There is no formal process/ management system to show how health safety indiges are managed and dioxed out. Noted on Site was not to stand the safety for t	08/06/2018	Closed	NA	Changes to operations team structure and lack of oversight in specific training for some staff. H&S issues had not been identified in previous safety audits.	Operations leadership developing plan for improving training compliance and noversight for DATS, Blower States (1997), and the states of the s	8/9/18	Operations leadership developing plan for improving training compliance and oversight for DATS. Blower installation compliance and Service of the Compliance	7/9/18	NA	NA .	NA	NA	NA
7 6.100	0.1 Major	"The company holds document for Employment Standards Act for BC for working regulations. The working shift pattern is carried out over two weeks. The shift pattern consists of 8 days on and 6 days off. The averaged hours of the standard out over the same provided by the managers to the payoff and working hours are previded by site managers to the payoff and working hours are provided by site managers to the payoff and working hours are more taken to the standards on the attendance system show that working hours confirmed that are allowed. The shift pattern is agreed before the commercement of employment colors shated the contractive working hours. Workers confirmed that the fucility did not abuse the working hour's regulations and laws."	The shift patterns for the Operations team exceed internationally accepted recommendations. The shift with the highest number of consecutive working days 1.2 d days 1.3 dff. (The daily) working hours are contracted at 10 hours per day)	08/06/2018	Closed	NA NA		Shift pattern to be adjusted to allow time off in 24 days, His term working on hange, to be verified at next ASC audit. Next usit to the company by the social auditor is set at the 3 nd September 2018.	8/9/18	Shift pattern to be adjusted to allow time off in 2 digs, HT team working on changes, to be writted at mat ASC sudd. Next vivil to the company by the social audior is set at the Ard September 2018. On the week beginning the 20 disperiment 2018 and the series of the ASC sudds. At that time the conduct 3 further ASC sudds. At that time the review of this KO on this site was carried out. The two individuals who were working excessive hours from the operations team had received new contracts and they were given rest periods during their shift. The company had provided an email of undertaking and the social auditor has accepted their corrective actions. Also this size was snot raised again on the other 3 audits taking place for the same Con low the same conjugation. Accepted Leon Reed.	7/9/18	NA	NA	NA	NA	NA
3 6.10	0.2 Majo	The employees are paid a premium rate for overtime hours they are paid 150% for the first 2 hours and 200% for any hours worked after that. The time and attendance system confirmed that overtime is infrequent. The employees confirmed that overtime is rare and is voluntary.	The review of the working hours found; Operations workers are working more than 16 hours per day on a regular base. The highest number of working hours in one day was 51 hours. Ret periods are between shifts are a low as 5 hours. 2d days continuous shift patterns are being used with excessive overtime. There have been some improvement since July 2017 but still needs some controls to ensure that working hours are compliant with the requirements set by ASC.	08/06/2018	Closed	NA	Changes to operations team structure and policy for overtiem have been introduced, but not fully rolled out.	Cap on working hours introduced, which has reduced, which has reduced excessive hours, 188 policy updated to reflect 12 hour cap working hours Policy appears to have reduced overtime as per updated to hear enduced overtime as per updated has been applied in 24 day shift. To he verified at next acts and the tree company for the company office of the company office for further ASC audit for the company office for further ASC audits on the week Deploring the 3rd of September 2018. The same audit ream violated the company office for further ASC audits on the week Deploring the 3rd of September The new 18 and of September The new 18 and working hours on the sale were reviewed since the last audit. Corrective actions the last audit. Corrective actions the last audit.	8/9/18	Cap on working hours introduced, which has reduced excessive hours, its policy updated to reflect 12 hour cap on working hours. Policy appears to have reduced overtime as per guidelines, to be werified at neat auxil. Reads have been applied in 24 day shift. To be werified at neat ASC audit for the company. Next with to the company by the social auditor is set at the 2rd September 2018. The area audit remails test the company office for further ASC audits on the week beginning the 3rd of further ASC audits on the week beginning the 3rd of starter ASC audits on the week beginning the 3rd of starter ASC audits on the week beginning the 3rd of starter ASC audits on the week beginning the 3rd of starter ASC audits on the week beginning the 3rd of starter and overtime had been significantly reduced. Accepted Leon Reed.	7/9/18	NA	NA	NA		

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5	8.3	Minor	There have been some modifications and modernisations to the hatcheries that have not been assessed in the impact accessment.	Biodiversity impact assessment for the hatchery was drawn up in November 2014. There are a series of recommendations at the end of the report mainly to do with the efficient discharge and its effect. Work to on-growing, and the farm is being turned into 1005 re-crociation. There have been one modification to the hatcheries that have not been assessed in the impact assessment.	08/06/2018	Closed	NA.	Recent updates to hatchery not yet reflected.	Cap on working hours introduced, which has reduced, which has reduced excessive hours, Hig policy updated to reflect 12 hour cap working hours. Policy appears to have reduced overtime as per updated in the produced hours and the service of the control of the co		Cap on working hours introduced, which has reduced excessive hours, it in goldey updated to reflect 12 hour op on working hours. Polley appears in which was a reduced to the company by the social source of the company. Next visit to the company by the social southers were worked as next Acc Aud for the company. Next visit to the company office for the company office for the company. Next visit to the company office for the company office for other has a dust for sea at the 3rd September 2018. The same suddit ream visited the company office for forther ACS audits on the week beginning the 3rd of September. The new HR policy had been introduced and working hours on the site were reviewed since the last audit. Corrective actions had been effective, and overtime had been significantly reduced. Accepted Leon Reed.	Extended	Bio diversity assessment being carried out over the summer.	Time required to carry out assessment.	31/12/18	NA	NA
1	8.9	Minor	The calculations are in place for the 2016 energy consumption in Kilojoules use however the 2017 calculations are not yet complete.	All records of fuel and electricity use are recorded for each of the flacities. These records make up part of the reporting into MH or global use of nerely. The hatcheries all record energy use M the calculations are in place for the 2016 energy consumption in Klöljoules use however the 2017 calculations are not yet complete.	08/06/2018	Closed	NA	Changes to key account manager position have resulted in delays in aquiring energy information from supplier	Energy updates completed - BTC 42,581,999k/lmT, 2,065,926 GHG equivalents. Dalrymple 30,850,530 k/lmT, 2,799,343 GHG equivalents. Calcuations now in place. Evidence accepted.	8/9/18 or by agreed plan	Email with data provided. Accepted Paul Casburn	14th July 2018	NA	NA	NA	NA	NA
1	8.10	Minor	Connected to 8.9 the greenhouse gas emissions calculation for 2017 is not yet been completed.	Connected to 8.9 the greenhouse gas emissions calculation for 2017 is not yet been completed.	08/06/2018	Closed	NA NA	Changes to key account manager position have resulted in delays in aquiring energy information from supplier	Energy updates completed - BTC 42,581,999k/lmT, 2,065,926 GHG equivalents. Dalymple 30,850,530 k/lmT, 2,799,343 GHG equivalents. Calcuations now in place. Evidence accepted.	8/9/18 or by agreed plan	Email with data provided. Accepted Paul Calburn	14th July 2018	NA	NA	NA	NA	NA

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ASC Audit Report - Traceablity

10	Traceability Factor	Description of risk factor if present.	Describe any traceability, segregation, or other systems in place to manage the risk.
	The possibility of mixing or substitution of certified and non-certified product, including product of the same or similar appearance or species, produced within the same operation.	There are adequate controls in place to prevent accidental substitution and although deliberate substitution could take place, staff are well trained, and the risk is low. The company is listed on the stock exchange and substituion if it was discovered, would have severe consequences for the company.	The company runs a product CV that accompanies the fish whenever they are moved from a cage including harvest. The CV has all the history for the fish in that cage including hatchery of origin, any medications or treatments, the feed that was used and any other relevant historical information eg family history.
	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.	Only deliberate substitution could take place, staff are well trained. No fish are sold as ASC certified.	Unlikely due to system in place at central harvest facility. The fish are killed on site and are transferred to the harvest unit directly using Refridgerated seawater vessels RSW's. The processing unit is based in Port Hardy and is owned by Marine Harvest. Only Marine harvest fish are harvested and processed in this processing unit. The site fills in a drug declaration sheet at harvest and its given to the Well Boat. The Well Boat also gives a copy of the quantity of fish harvested to the site before it leaves for the processing unit. It is possible, though unlikely, that the harvest boat would have a different site load in seperate holds.
10.3	The possibility of subcontractors being used to handle, transport, store, or process certified products.	The fishing company owned by and called J. Walkus is used to harvest however they only harvest for Marine Harvest Canada.	The same trace system is used as described earlier in the audit. The fish are still under the control of Marine Harvest. The processing unit is also owned by Marine Harvest.
	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 opportunities.	None.

Owned by client

Subcontracted by client



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

Number of sites included in the unit of certification

1	0
1	0

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

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

Site name(s)	Reason(s)
NA	NA

The fish are harvested on site and transported to the Port Hardy processing plant by James Walkus fishing company. There are 3 harvest / killing boats which are the Nicole Joye, Amarissa Joye and the Serina Joye. There are 2 other RSW boats that transport the fish from the point of harvest to the processing plant. They are the Pacific Joye and the Island Joye. The traceability system consisits of a 3 copy document that is filled in on the harvest boat that describes the site, cage number, date, time and fish number harvested plus any other comments. One copy is left on the farm, one copy is left on the harvest baot and the last copy goes to the Processing plant. A further 3 copy document is filled in by the farm itemising the last treatments of anasthetic, antibiotics and lice treatments if any. This document details the withdrawl of any therapeutants of chemicals and is used in the history of the harvest fish. Again the farm keeps a copy, the harvest boat keeps a copy and the processing plant does not procede with processing without their copy.

10.6 Traceablity Determination:

certified by the operation originate from the unit of certification, or

10.6.1 The traceability and segregation systems in the operation The company has GAA BAP certification for all its sites including the processing facility. The processing facility also has MSC CoC are sufficient to ensure all products identified and sold as certification. The farm does not sell the fish as ASC certified. There is a requirement for a chain of custody for when the fish are no longer in the control of the farm.

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.

See 10.6.1



10.6.3 The point from which chain of custody is required to begin

Products are authorised to enter an ASC Chain of Custody certification at the point where the fish is moved from the well boat and delivered directly to the processing plant. From this point the ASC Salmon Standard certificate stops and the ASC CoC certificate takes over.

The harvest plant, "Marine Harvest Canada – Port Hardy", is ASC CoC certified, certificate code ASC-C-00540 the certificate is valid until 14.01.2021. Ref. to www.asc-aqua.org where updated information is available.

As the scope of this ASC Salmon Standard audit is the complete farm and all salmon at the site is included in the scope of this audit, and the fact that the harvest plant has an ASC CoC certification, the risk associated to substitution and mixing of certified with not certified products is very limited or not existing at the site and before the point when the ASC CoC as specified is needed and takes over in the ASC Salmon/ASC CoC certification process

10.6.4 If a sepearate chain of custody certificate is required for the unit of certification

No, not for the unit of certification (Wanx Talis; Heath Bay).

A separate ASC CoC certification is needed as specified earlier in the report for activites e.g slaughtering, processing and trading of certified products performed after the ASC Salmon Standard certificate scope stops.

For Multi-site clients



ASC Audit Report - Closing

12 Evaluation Results

12.1

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

The audit was comprehensive and well executed. The operation understands the ASC requirements and standard.

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

Audit Report Closing.

The principles where full compliance was found is listed below:

Principle 1; "Compliance with all applicable local and national legal requirements and regulations".

Principle 3; "Protect the health and integrity of wild populations".

Principle 7; "Be a good neighbour and conscientious citizen".

For the rest of the principles listed below:

Principle 2; "Conserve natural habitat local biodiversity and ecosystem function".

Principle 4; "Use resources in an environmentally efficient and responsible manner".

Principle 5; "Manage disease and parasites in an environmentally responsible manner".

Principle 6; "Develop and operate farms in a social responsible manner".

Principle 8; " Standards for supplier of smolt".

Full compliance was not found, although most of these were mainly compliant. The audit hence resulted in a limited number of Major and Minor 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. The audit was timed without including harvest activities to allow the farm to benefit from certification during the initially audited production cycle. The QMS system used related to harvest and procedures and methodology used for harvesting salmon at the site/company was assessed. Harvest is planned to be observed and assessed during relevant surveillance audit of the site/company at a later date.

VR used during audit:

VR nr.89 approved 27.9.15 by ASC on indicator 5.4.4. Rationale for use of VR 89 during audit is that VHS is endemic in BC and does not require compulsory culling.

VR nr.91 approved 27.9.15 by ASC on indicator 5.4.4. Rationale for use of VR 91 during audit is that VHS is endemic in BC and does not require compulsory culling.

VR nr.92 approved 23.9.15 by ASC on indicator 8.4. Rationale for use of VR 92 during audit is the smolt producers discharge effluent to seawater not freshwater.

VR nr.141 approved 28.3.16 by ASC on indicator 3.1.7. Rationale for use of VR 141 during audit is that the DFO requirements for Lice levels on farmed salmon is accepted by ASC.

VR nr.224 approved November 2018 by ASC on indicator 2.1.2 and 2.1.3 Rationale for use: BC salmon farms have been granted a variance to Indicators 2.1.2 and 2.1.3 and instead rely on the scientifically proven and federally regulated sulfide surrogates.

VR nr.231 approved 14.7.17 by ASC on indicator 8.4. Rationale for use of VR 231 during audit is that the hatcheries are allowed to measure phosphorus in the effluent water rather than the sludge. VR nr.246 approved 17.1.18 by ASC on indicator 2.3.1. Rationale for use of VR 246 during audit is that the feed companies are allowed to measure the fines rather than the site.

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

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)

This site has the capability to consistently meet the objectives of the ASC salmon standard as required. This is the sites first audit. The site had 5 minor and 4 Major NC and they have been closed. Corrective actions for closing the minors (in the form of a plan or closed where possible) and the Major (in the form of supplied evidence) are approved by DNV GL.

12.2

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123	In cases where BEIA or PSIA is available, it shall be added in full to the audit report. IF these documents are not in English, then a synopsis in English shall be added to the report.	NA
13 Decision		
		Yes. The final certification decision has been taken after closing of the major findings and all minor findings are closed or have an agreed plan in place, as per ASC Farm Certification and Accreditation Requirements Version 2.1 August 2017. • Compliant and thus certified Output Description:
13.1		
13.2	The Eligiblity Date (if applicable)	The Eligiblity Date is the date of certification 06.12.2018 Certificate validity 06.12.2018 - 06.12.2021
13.3	producer? (yes/no)	No, not for the unit of certification (Heath Bay also called Wanx talis). A separate ASC CoC certification is needed as specified earlier in the report for activities e.g slaughtering, processing and trading of certified products performed after the ASC Salmon Standard certificate scope stops.
13.4	If a certificate has been issued this section shall include:	
13.4.1	The date of issue and date of expiry of the certificate.	Certificate validity 06.12.2018 - 06.12.2021
13.4.2	The scope of the certificate	Production of Atlantic salmon (Salmo salar).

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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	Sur	vei	lle	no	:6
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13.4.3

14 1 Next planned	Surveillance
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14.1.1 Planned date

14.1.2 Planned site He

Next audit type

14.2.1 Surveillence 1

14.2.2 Surveillance 2

14.2.3 Re-certification

14.2.4 Other (specify type)

2019 - Specific date not decided at this stage.

Heath Bay

SA 1 - 2019

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