Russian Kunashir salmon trap/net

Fishery Improvement Project (FIP) Workplan

Table 1: Workplan Overview

Workplan Version and Date	**Version 2 (May 2024)**
Start date (expected)	**End date** (anticipated month/year)
August 2021	**December 2026**
FIP Lead (organization/individual responsible for Action Plan)	**Improvements recommended by** (meeting/group that supported the development)
1. **ForSea Solutions LLC** 2. **PCF Yuzhno-Kurilsky Ryibokombinat Co., Ltd. (YKRK Co., Ltd.)**	**ForSea Solutions LLC**
FIP Coordinator (organization/individual responsible for reporting on FisheryProgress)	**Workplan developed by** (consultant or person)
ForSea Solutions LLC	**Randy Ericksen**

Acronyms

YKRK	PCF Yuzhno-Kurilsky Ryibokombinat Co., Ltd. (Client-company)
SakhNIRO	Regional Research Institute of Sakhalin as part of VNIRO Russian Federal Research Institute of Fisheries and Oceanography, conducts research of marine and freshwater resources in the Sakhalin-Kuril region to monitor the status of commercial species.
SakhRybVod	The Sakhalin-Kuril regional branch of FSBI Glavrybvod to manage aquatic resources and hatchery operations, collects in-season information on catch and escapement, and controls hatchery permitting and management. SakhRybVod operates a number of hatcheries in Sakhalin.

Unit of Assessment(s)

Table 2. Unit(s) of Assessment (UoA)

UoA 1	Description
Target species (common and scientific name)	Pink (humpback) salmon; *Oncorhynchus gorbuscha*
Stock	Populations of pink salmon spawning in the rivers and lake-river systems of the island of Kunashir and populations of these species that may be intercepted in the coastal areas of Kunashir Island by this fishery.
Geographical area	Administratively, Kunashir Island is part of the Sakhalin Oblast of the Far East Federal Region of the Russian Federation. For management purposes, the fishery is located in the South Kuril (61.04) Fishery Zone
Fishing method or gear type	Coastal trap nets, beach seines and set (anchored) gillnets.
Fishing fleet or group of vessels, or individuals fishing operators pursuing stock	Salmon are collected from trap boxes into the live hold of small boats, called “kungas.” operated by the fishing company PCF Yuzhno-Kurilsky Ryibokombinat Co., Ltd. Kungas are small dories with water-filled hulls towed by small tugboats. All retained fish are required to be delivered to the processing trawlers or the onshore fish processing plant.
UoA 2	**Description**
Target species (common and scientific name)	Chum (dog) salmon; *Oncorhynchus keta*
Stock	Populations of chum salmon spawning in the rivers and lake-river systems of the island of Kunashir and populations of these species that may be intercepted in the coastal areas of Kunashir Island by this fishery.
Geographical area	Administratively, Kunashir Island is part of the Sakhalin Oblast of the Far East Federal Region of the Russian Federation. For management purposes, the fishery is located in the South Kuril (61.04) Fishery Zone
Fishing method or gear type	Coastal trap nets, beach seines and set (anchored) gillnets.
Fishing fleet or group of vessels, or individuals fishing operators pursuing stock	Salmon are collected from trap boxes into the live hold of small boats, called “kungas.” operated by the fishing company PCF Yuzhno-Kurilsky Ryibokombinat Co., Ltd. Kungas are small dories with water-filled hulls towed by small tugboats. All retained fish are required to be delivered to the processing trawlers or the onshore fish processing plant.

FIP Actions

Table 3. Performance Indicator Action Plan Table for Action 1 Rebuild Local Salmon Stocks

Action Number and Name	**#1 Rebuild local salmon stocks**
Action Goal	Rebuild wild Kunashir Island pink and chum salmon stocks within five years
Action Description	Develop and implement a rebuilding plan to increase escapements of wild pink and chum salmon on Kunashir Island to sustainable levels. Conduct an assessment of escapement management targets to determine if they are consistent with maximum sustainable yield (MSY). The MSC Pre-assessment of the fishery found that Kunashir pink and chum salmon escapements have been generally well below management targets over the past decade. The management agencies implemented restrictions on the commercial salmon fishery to rebuild pink salmon stocks that have been in place along the Sea of Okhotsk coast of Kunashir Island since 2014, but these measures have not led to the restoration of the stocks. Improving pink and chum salmon escapements to optimal levels is a necessary step to provide higher returns in future years.
Expected Completion Date	December 2026
Priority	High
Estimated Cost (An estimate of the budget needed to complete the action)	$60,000 USD
Responsible Parties	YKRK, ForSea Solutions, SakhNIRO, SakhRybVod
MSC PI(s) Addressed by the Action	1.1.1 Stock Status, 1.1.2 Stock Rebuilding

Action	**Tasks/ Milestones**	**Responsible (lead)**	**Responsible (supporting role)**	**Starting date**	**Expected completion date**	**Evidence of completion / results**
1 Rebuild local salmon stocks	A. Develop a rebuilding plan for wild Kunashir Island pink and chum salmon	SakhNIRO	YKRK, ForSea Solutions, SakhRybVod	August 2021	April 2024	**April 2024: Completed.** In May 2022, the client submitted the Plan

						for Action 1, which included three sections of activity: 1. Studying the biology and reproduction of local Pink and Chum salmon 2. Improving monitoring during the entry of Pink and Chum salmon spawners to spawning grounds 3. Improving the reproduction of Pink and Chum salmon in the rivers and lakes of Kunashir Island See https://fisheryprogress.org/node/16192/actions-progress#overlay=task/16243
	B. Implement the rebuilding plan	SakhNIRO	YKRK, ForSea Solutions, SakhRybVod	June 2022	December 2026	
	C. Conduct a review of escapement objectives for pink and chum salmon, to determine if revision of the 70% target for filling of spawning area would be appropriate.	SakhNIRO	YKRK, ForSea Solutions, SakhRybVod	August 2021	December 2026	

Table 4. Performance Indicator Action Plan Table for Action 2 Harvest Strategy

Action Number and Name	**#2 Harvest Strategy**
Action Goal	Demonstrate there is a robust and precautionary harvest strategy in place.

Action Description	Describe the harvest strategy in place to achieve wild pink and chum salmon escapement targets on Kunashir Island (including measures that address component population status issues). Describe the monitoring in place that will determine whether the harvest strategy is working. Provide evidence that the harvest strategy is achieving its objectives.
Expected Completion Date	December 2026
Priority	High
Estimated Cost (An estimate of the budget needed to complete the action)	$40,000 USD
Responsible Parties	YKRK, ForSea Solutions, SakhNIRO, SakhRybVod
MSC PI(s) Addressed by the Action	1.2.1 Harvest Strategy

Action	**Tasks/ Milestones**	**Responsible (lead)**	**Responsible (supporting role)**	**Starting date**	**Expected completion date**	**Evidence of completion / results**
2 Harvest Strategy	A. Describe the elements of the harvest strategy that work together to achieve wild pink and chum salmon escapement targets including measures that address component population status issues (ie. early versus late pink salmon, river versus lake spawning chum salmon).	SakhNIRO	YKRK, ForSea Solutions, SakhRybVod	August 2021	**June 2022**	**April 2024: Completed.** The attached document is a summary of reports by Andrey Zhivoglyadov describing the spawner, abundance, and escapement monitoring and results as reported in two Russian language reports by Dr. Zhivoglyadov, "Fishery Survey of the Waterbodies on Kunashir Island (Lake Ilinskoye, the Pervukhina River, and Lake Lagoonnoye) During the Spawning Migration of Pacific Salmon in 2022" ("Report No. 1") and "Description of stocks and reproduction of Kunashir Pink and Chum Salmon (Sakhalin Region)". See https://fisheryprogress.org/node/16192/actions-progress#overlay=task/16247

	B. Describe the monitoring in place to determine whether the harvest strategy is working.	SakhNIRO	YKRK, ForSea Solutions, SakhRybVod	August 2021	June 2022	**April 2024: Completed.** The fishery provided documentation and description of the current harvest strategy and elements that work to achieve wild pink and chum salmon escapement targets in the document "PACIFIC SALMON FISHERY STRATEGY IN THE SAKHALIN REGION IN 2022". See https://fisheryprogress.org/node/16192/actions-progress#overlay=task/16248
	C. Provide evidence that the harvest strategy is achieving its objectives.	SaknNIRO	YKRK, ForSea Solutions, SakhRybVod	July 2023	December 2026	

Table 5. Performance Indicator Action Plan Table for Action 3 Harvest control rules and tools

Action Number and Name	**#3 Harvest control rules and tools**
Action Goal	Demonstrate that there are well defined and effective harvest control rules and tools (HCRs) in place.
Action Description	Define the HCRs that are in place to ensure that the exploitation rate is reduced as the LRP is approached, and are expected to keep escapements fluctuating around target levels. Provide evidence that the tools in use are appropriate and effective in achieving exploitation levels required under the HCRs.
Expected Completion Date	December 2026
Priority	Medium
Estimated Cost (An estimate of the budget needed to complete the action)	$40,000 USD
Responsible Parties	YKRK, ForSea Solutions, SakhNIRO, SakhRybVod, Sakhalin Oblast Fishery Agency
MSC PI(s) Addressed by the Action	1.2.2 Harvest control rules and tools

Action	Tasks/ Milestones	Responsible (lead)	Responsible (supporting role)	Starting date	Expected completion date	Evidence of completion / results
3 Harvest control rules and tools	A. Define the HCRs in place to ensure that the exploitation rate is reduced as the LRP (30% of optimal escapement levels) is approached, and are expected to keep escapements fluctuating around target levels (70-100% of optimal escapement levels).	SakhNIRO	YKRK, ForSea Solutions, SakhRybVod, Sakhalin Oblast Fishery Agency	August 2021	December 2026	
	B. Provide evidence that the tools in use are appropriate and effective in achieving exploitation levels required under the HCRs.	SaknNIRO	YKRK, ForSea Solutions, SakhRybVod	July 2023	December 2026	

Table 6. Performance Indicator Action Plan Table for Action 4 Information and monitoring

Action Number and Name	#4 Information and monitoring
Action Goal	Demonstrate that relevant information is collected to support the harvest strategy.
Action Description	Describe the relevant information that is collected on the fishery, Kunashir pink and chum salmon stock status, population structure, productivity and other fishery removals to support the harvest strategy.
Expected Completion Date	December 2026
Priority	Medium
Estimated Cost (An estimate of the budget needed to complete the action)	$40,000 USD
Responsible Parties	YKRK, ForSea Solutions, SakhNIRO, SakhRybVod

MSC PI(s) Addressed by the Action	1.2.3 Information and monitoring

Action	Tasks/ Milestones	Responsible (lead)	Responsible (supporting role)	Starting date	Expected completion date	Evidence of completion / results
4 Information and monitoring **April 2024: Action Completed**	A. Demonstrate that sufficient relevant information related to pink and chum salmon structure, salmon production, fishery statistics and other data is available to support the harvest strategy, including harvests and spawning escapements for a representative range of wild component populations.	SakhNIRO	YKRK, ForSea Solutions, SakhRybvod	August 2021	April 2024	**April 2024: Completed.** The fulfillment of Task A "Demonstrate that sufficient relevant information...." is confirmed by the reports of the involved researchers (Andrey Zhivoglyadov and Tatiana Tochilina). In their reports, we can find complete information about escapement, fishing, and biological parameters for Pink and Chum Salmon (ENG_Zhivoglyadov_Report_… ; ENG_YKRK_Tochilina Repo…). See https://fisheryprogress.org/node/16192/actions-progress#overlay=task/16254
	B. Demonstrate that wild salmon returns and Kunashir fishery harvests are regularly monitored at a level of accuracy and coverage consistent with the harvest control rule, and one or more indicators are available and monitored with sufficient frequency to support the harvest control rule.	SakhNIRO	YKRK, ForSea Solutions, SakhRybVod	August 2021	April 2024	**April 2024: Completed.** The fulfillment of Task B "Demonstrate that wild salmon returns and Kunashir fishery harvests..." is confirmed by daily catch reports from Kunashir fishing companies, which are received by regulatory authorities (Sakhalin-Kuril Territorial Administration SKTU, SakhNIRO and SakhRybVod), as well as spawning ground examination reports compiled with sufficient frequency by representatives of the Ichthyology Department on Kunashir Island. In addition to the two scientific reports mentioned above under Task A, the annual “Study of Pacific Salmon in the Far East" Bulletin report”,

						reporting on the 2023 fishing season, was published in 2024 (Bulletin 18 (2024)_Бюллетен…), and annual catch reports were provided as well. See https://fisheryprogress.org/node/16192/actions-progress#overlay=task/16255
	C. Provide good information on the harvest of salmon originating from Kunashir Island by other fisheries.	SaknNIRO	YKRK, ForSea Solutions	July 2023	December 2026	**April 2024: Completed.** The fulfillment of **Task C** "Provide good information on the harvest..." is confirmed by data from Tatiana Tochilina's report for 2023 on the catch of Pink and Chum Salmon by other fishing companies on Kunashir. In turn, Tatiana Tochilina received this data from the reports of these companies to the regulatory authorities. See https://fisheryprogress.org/node/16192/actions-progress#overlay=task/16256

Table 7. Performance Indicator Action Plan Table for Action 5 Assessment of stock status

Action Number and Name	**#5 Assessment of stock status**
Action Goal	Demonstrate that there is an adequate assessment of the stock status.
Action Description	Demonstrate that the assessment of the stock status is appropriate to the harvest control rule, is representative of all component stocks (such as early and late pink salmon, and river and lake spawning chum salmon), and that uncertainty is taken into account.
Expected Completion Date	October 2026
Priority	High
Estimated Cost (An estimate of the budget needed to complete the action)	$40,000 USD

Responsible Parties	YKRK, ForSea Solutions, SakhNIRO, SakhRybVod
MSC PI(s) Addressed by the Action	1.2.4 Assessment of stock status

Action	Tasks/ Milestones	Responsible (lead)	Responsible (supporting role)	Starting date	Expected completion date	Evidence of completion / results
5 Assessment of stock status	A. Demonstrate that the assessment is appropriate for the wild pink and chum salmon and for the harvest control rule.	SakhNIRO	YKRK, ForSea Solutions, SakhRybVod	August 2021	April 2024	**April 2024: Completed.** As has been previously noted, stock assessments based on catch and spawner surveys are used to determine forecasts and catch limits. The most complete and updated information on the stock status of the Kunashir pink and chum salmon is available in the reports "Conducting investigations on the habitat and escapement to spawning ground of Pink and Chum Salmon on Kunashir Island (Sakhalin Region) by Andrey Zhivoglyadov and SakNIRO and ": "Collection and analysis of biological and statistical information for the reproduction of Pink and Chum Salmon on Kunashir Island" by Tatiana Tochilina. There are constant revisions of the theoretical basis of stock assessment models and forecasts of potential Pacific salmon catches. All the selected mathematical models are verified, and obtained results are considered after additional information to be introduced into the calculations. The results are widely published in scientific and other biological journals. But the most detailed results of the salmon fishing season are published in the "Bulletin on Pacific Salmon studies in the Far

						East", an annual electronic supplement to the scientific journal "Izvestiya TINRO". Bulletin 18 describing the 2023 fishing season was published in April 2024 (Bulletin 18 (2024)_Бюллетен…). Poor stock status is an ongoing concern. However, the quality of the assessment is not limiting management's ability to respond with an appropriate harvest control rule. The appropriateness of management's response is addressed under Action 9. The available data and annual reports are considered sufficient evidence to demonstrate that the assessment is appropriate for the wild pink and chum salmon and to support a harvest control rule (Task A). Thus, Task A is considered **completed.**
	B. Demonstrate that there is some evidence of coherence between the pink and chum salmon status in indicator streams (monitored streams) and the status of the other populations they represent on Kunashir Island, including selection of indicator stocks with low productivity (i.e., those with a higher conservation risk) to match those of the representative stocks where applicable.	SakhNIRO	YKRK, ForSea Solutions, SakhRybVod	November 2022	December 2024	

	C. Demonstrate that the stock management units are well-defined and include definitions of the major populations with a clear rationale for conservation, fishery management and stock assessment requirements.	SaknNIRO	YKRK, ForSea Solutions, SakhRybVod	July 2022	October 2025	
	D. Demonstrate that the assessment takes uncertainty into account and is evaluating stock status relative to reference points in a probabilistic way.	SakhNIRO	YKRK, ForSea Solutions, SakhRybVod	July 2023	October 2026	

Table 8. Performance Indicator Action Plan Table for Action 6 Enhancement outcome and management

Action Number and Name	**#6 Enhancement outcomes and management**
Action Goal	Demonstrate that effective enhancement and fishery strategies are in place to address effects of enhancement activities on wild stock(s).
Action Description	Describe the measures that have been implemented, or will be implemented, to address the potential for negative effects of enhancement activities on the genetic diversity, local adaptation and reproductive capacity of the wild lake spawning chum salmon stock. Develop and implement a comprehensive strategy to protect the wild lake spawning chum salmon stock from significant negative impacts of enhancement.
Expected Completion Date	December 2026
Priority	Medium
Estimated Cost (An estimate of the budget needed to complete the action)	$50,000 USD
Responsible Parties	YKRK, ForSea Solutions, SakhNIRO, SakhRybVod

MSC PI(s) Addressed by the Action	1.3.1 Enhancement outcomes, 1.3.2 Enhancement management

Action	Tasks/ Milestones	Responsible (lead)	Responsible (supporting role)	Starting date	Expected completion date	Evidence of completion / results
6 Enhancement outcomes and management	A. Describe the measures that have been implemented, or will be implemented, to minimize the potential for negative effects of enhancement activities on the genetic diversity, local adaptation and reproductive capacity of the wild lake spawning chum salmon stock.	YKRK hatchery staff	YKRK, ForSea Solutions, SakhNIRO	August 2021	October 2022	**April 2024: Completed.** Evidence provided by the client for this review demonstrated that existing measures minimize the potential for negative effects of enhancement on the genetic diversity, local adaptation, and reproductive capacity of wild lake chum salmon. Data on the timing of chum salmon entering the Lagunnoye Lake (fish of a mixed origin) and the Pervukhina stream where the hatchery is based (hatchery fish) relative to migration and spawning timing suggests that migration of hatchery fish to the lake spawning grounds is not significant (ENG_Kunashir FIP Action 6. Enhancement Program outcomes and management_Apr Update 2023). Currently, management of the Lagunnoye Lake Salmon Hatchery is considered to minimize the effects of hatchery releases on the wild populations. See https://fisheryprogress.org/node/16192/actions-progress#overlay=task/16263

	B. Develop and implement a comprehensive strategy with associated metrics to protect the wild lake spawning chum salmon stock from significant negative impacts of enhancement.	YKRK hatchery staff	YKRK, ForSea Solutions, SakhNIRO	August 2021	October 2023	**April 2024: Completed.** Recent published data in Russia indicates that the release of hatchery juvenile pink and chum salmon has not significantly influenced population abundance. In their article "Artificial Reproduction and Status of Pacific Salmon Stocks," the authors conclude, "It is unlikely that the increase in stocks was caused by fish hatching alone, since their appearance largely matched the positive trends in the natural long-term dynamics of Pacific Salmon abundance on both coasts" (Makoyedov and Makoyedov, 2022). Currently, management of the Lagunnoye Lake Salmon Hatchery is considered to minimize the effects of hatchery releases on the wild populations. Therefore, this Task is considered to be completed successfully. See https://fisheryprogress.org/node/16192/actions-progress#overlay=task/16264
	C. Demonstrate that there is some objective basis for confidence that the strategy is effective, based on evidence that the strategy is achieving the outcome metrics used to define the minimum detrimental impacts.	YKRK hatchery staff	YKRK, ForSea Solutions, SakhNIRO, SakhRybVod	October 2023	December 2026	

Table 9. Performance Indicator Action Plan Table for Action 7 Enhancement information

Action Number and Name	#7 Enhancement information
Action Goal	Demonstrate that relevant information is collected and assessments are adequate to determine the effect of enhancement activities on wild stock(s).
Action Description	Implement a program to mark salmon releases at the Lagunnoye Lake hatchery. Develop and implement a comprehensive plan to estimate the contribution of hatchery produced fish to the fishery harvest, total escapement (wild plus enhanced) and hatchery broodstock.
Expected Completion Date	December 2026
Priority	High
Estimated Cost (An estimate of the budget needed to complete the action)	$60,000 USD
Responsible Parties	YKRK, ForSea Solutions, SakhNIRO, SakhRybVod
MSC PI(s) Addressed by the Action	1.3.3 Enhancement information

Action	Tasks/ Milestones	Responsible (lead)	Responsible (supporting role)	Starting date	Expected completion date	Evidence of completion / results
7 Enhancement information	A. Implement an otolith marking program for salmon produced at the Lagunnoye Lake hatchery.	YKRK hatchery staff	YKRK, ForSea Solutions, SakhNIRO, SakhRybVod	August 2021	Ongoing (December 2026)	
	B. Develop a comprehensive plan to estimate the contribution of hatchery produced fish to the fishery harvest, total escapement (wild plus enhanced) and hatchery broodstock.	YKRK hatchery staff	YKRK, ForSea Solutions, SakhNIRO, SakhRybVod	August 2021	December 2022	**April 2024: Completed.** Task B is considered complete because the client has stated their intent to work with scientists to estimate hatchery contributions in the escapement, hatchery broodstock, and catch. This is documented in the attached Letter of Intent and is considered to fulfill the task requirement to develop a plan for estimating these

						contributions. See https://fisheryprogress.org/node/16192/actions-progress#overlay=task/16268
	C. Implement the comprehensive plan to provide quantitative information on the impacts of enhancement activities on wild-stock status, productivity, and diversity.	YKRK hatchery staff	YKRK, ForSea Solutions, SakhNIRO, SakhRybVod	January 2023	Ongoing (December 2026)	

Table 10. Performance Indicator Action Plan Table for Action 8 ETP species information

Action Number and Name	**#8 ETP species information**
Action Goal	Demonstrate that relevant information is collected to support the management of UoA and enhancement activities impacts on ETP species.
Action Description	Provide quantitative information on the magnitude of fishery and associated enhancement related impacts, mortalities and injuries and the consequences for the status of Sakhalin taimen.
Expected Completion Date	December 2026
Priority	Medium
Estimated Cost (An estimate of the budget needed to complete the action)	$20,000 USD
Responsible Parties	YKRK, ForSea Solutions, SakhNIRO, SakhRybVod
MSC PI(s) Addressed by the Action	2.3.3 ETP species information

Action	**Tasks/ Milestones**	**Responsible (lead)**	**Responsible (supporting role)**	**Starting date**	**Expected completion date**	**Evidence of completion / results**

8 ETP species information **April 2024: Action Completed**	A. Develop a comprehensive plan to estimate the magnitude of fishery and associated enhancement related impacts, mortalities and injuries and the consequences for the status of Sakhalin taimen.	YKRK hatchery staff here	YKRK, ForSea Solutions, SakhNIRO, SakhRybVod	August 2021	October 2022	**April 2024: Completed.** The client has published its intended research plan to estimate the fishery and hatchery impacts on Sakhalin taimen in the report "Current State and Historical Data on Sakhalin Taimen Population of Kunashir Island" by Sergei Zolotukhin. The publication of this research plan is considered to meet Task A as it lays out a plan for collecting and assessing the data necessary to determine effects on the taimen. See https://fisheryprogress.org/node/16192/actions-progress#overlay=task/16271
	B. Implement the comprehensive plan to estimate the magnitude of fishery and associated enhancement related impacts, mortalities and injuries and the consequences for the status of Sakhalin taimen.	YKRK hatchery staff here	YKRK, ForSea Solutions, SakhNIRO, SakhRybVod	November 2022	December 2025	**April 2024: Completed.** The Zolotukhin report (see Task A) provided extensive information on Kunashir taimen sufficient to meet requirements to complete Task B. See https://fisheryprogress.org/node/16192/actions-progress#overlay=task/16272
	C. Provide a report with quantitative information on the magnitude of fishery and associated enhancement related impacts, mortalities and injuries and the consequences for the status of Sakhalin taimen.	YKRK hatchery staff here	YKRK, ForSea Solutions, SakhNIRO, SakhRybVod	December 2025	December 2026	**April 2024: Completed.** The Zolotukhin report (see Task A) provided adequate quantitative information on Sakhalin taimen sufficient to meet Task C. See https://fisheryprogress.org/node/16192/actions-progress#overlay=task/16273

Table 11. Performance Indicator Action Plan Table for Action 9 Decision making processes

Action Number and Name	#9 Decision making processes
Action Goal	Demonstrate that the fishery-specific and associated enhancement management system includes effective decision-making processes that result in measures and strategies to achieve the objectives, and has an appropriate approach to actual disputes in the fishery.
Action Description	Demonstrate that decision-making processes respond to serious and other important issues identified in relevant research, monitoring, evaluation and consultation, in a transparent, timely and adaptive manner and take account of the wider implications of decisions. Demonstrate that decision-making processes use the precautionary approach and are based on best available information.
Expected Completion Date	December 2026
Priority	Medium
Estimated Cost (An estimate of the budget needed to complete the action)	$20,000 USD
Responsible Parties	YKRK, ForSea Solutions, SakhNIRO, SakhRybVod, Sakhalin Oblast Fishery Agency
MSC PI(s) Addressed by the Action	3.2.2 Decision making processes

Action	Tasks/ Milestones	Responsible (lead)	Responsible (supporting role)	Starting date	Expected completion date	Evidence of completion / results
9 Decision making processes	A. Demonstrate that decision-making processes respond to serious and other important issues identified in relevant research, monitoring, evaluation and consultation, in a transparent, timely and adaptive manner and take account of the wider implications of decisions	SakhNIRO	YKRK, ForSea Solutions, SakhRybVod, Sakhalin Oblast Fishery Agency	August 2021	Annually through December 2026	
	B. Demonstrate that decision-making processes use the precautionary approach and are based on best available information.	SakhNIRO	YKRK, ForSea Solutions, SakhRybVod, Sakhalin Oblast Fishery Agency	August 2021	December 2026	

	C. Demonstrate that information on the fishery's performance and management action is available on request, and explanations are provided for any actions or lack of action associated with findings and relevant recommendations emerging from research, monitoring, evaluation and review activity.	SakhNIRO	YKRK, ForSea Solutions, SakhRybVod, Sakhalin Oblast Fishery Agency	December 2025	December 2026	