To be included in the "Join Project Program of JSC "Gidrostroy" and VNIRO for the chum salmon study in Lake Lebedinoye"

Minutes of coordination of the monitoring schedule of Lake Lebedinoye in 2013.

The basin of the Kurilka River consists of tributaries that differ in their characteristics, with different conditions of migration and salmon spawning. Lake Lebedinoye is one of the tributaries. The lake is freshwater with a flow-through into the Kurilka River through the Zmejka duct, to the Sea of Okhotsk. The lake area of the spawning grounds is 4,250 square meters and in the tributaries it is 2,500 square meter. According to a survey done by the experts of FGBU "Sakhalinrybvod", the number of chum salmon spawning in the lake was 10-12 thousand fish in 2008 and 2009 (102-107%). After year 2009 the ichthyologists of FGBU "Sakhalinrybvod" did not conduct a survey of the spawning grounds of the lake.

It is necessary to establish an **annual** monitoring program of the spawning grounds for the rational utilization of the salmon that are spawning in the lake and its tributaries.

<u>Purpose of work in 2013</u>: Together with the staff of VNIRO, assess the chum salmon population status in Lebedinoye Lake. Collect the data on the size, weight and age structure of the population; determine the belonging of chum salmon by tags on otolith.

The order of projects: Work on the lake will consist of regular inspections using boats (because the banks are impassable). During the study, the accounting of chum salmon, their place of feeding and spawning, is to be determined along with noting possible impacts on the lake (poaching, etc.). In order not to affect the spawning, the biological material will be collected from fish that have already spawned. The dead fish will then be returned to the lake after analysis. During the study of each area of the lake, the water temperature and oxygen content will be recorded.

Work schedule

№ of mil esto ne	Content of work	Supply	Date	Purpose of the study	Performer
1	Surveying along the shoreline and mouths of streams.	Boat. Thermo- oximeter	October 10-15.2013	Accounting for spawners of pink salmon and chum salmon	On their own
2	Surveying along the shoreline and mouths of streams.	Boat. Scales Register. Knife. Thermo- oximeter	October 25-30.2013	Accounting for spawners of chum salmon	Together with staff of VNIRO
3	Surveying along the shoreline and mouths of streams. Evaluation of spawning. Collection of otoliths. Bio analysis.	Boat. Scales Register. Knife. Weight Scales. Ruler. Thermo- oximeter	November 10-15.2013	Accounting for spawners of chum salmon. Bio analysis. Collection of otolith.	Together with staff of VNIRO
4	Surveying along the shoreline and mouths of streams. Evaluation of spawning. Collection of otoliths. Bio analysis.	Boat. Scales Register. Knife. Weight Scales. Ruler. Thermo- oximeter	November 25-30-2013	Accounting for spawners of chum salmon. Bio analysis. Collection of otolith.	Together with staff of VNIRO
5	Surveying along the shoreline and mouths of streams. Collection of otoliths.	Boat. Scales Register. Knife. Thermo- oximeter.	December 10-15-2013	Accounting for spawners of chum salmon. Collection of otolith.	On their own
6	Assessment of bio analysis, age determination using analysis of scales.		December		VNIRO
7	Otolith examination and tag search.		December- January		VNIRO
8	Writing a report on the results of work		January 2014		VNIRO
9	Establishment of the 2014 work program.		January 2014		Employees of JSC Gidrostroy together with the staff of VNIRO.

The description of the population, and determination of the quantity and dynamics of the chum salmon run will be concluded from the results of the study. This will allow an assessment of the state of the chum salmon population in Lebedinoye Lake, the plan of work for its preservation, as well as determining the required scope of work for the regular monitoring of the lake.

Leading Researcher of the Laboratory for Salmon Reproduction of FGUP VNIRO

B.P.Smirnov

Head of the Hatchery Department of JSC Gidrostroy

V.P. Pogodin