

**IMPACTS OF PRODUCED WATER ON LARCH FOREST (*LARIX CAJANDERI*, PINACEAE) IN NORTHERN  
SAKHALIN**

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**SUMMARY**

*Larix cajanderi*-*Ledum palustre* and *Larix cajanderi*-*Pinus pumila*-*Ledum palustre* forest sites (19 ha) at Dagi river watershed (North Sakhalin, 52°06'34" N, 143°01'46" E) were damaged by accidental spills of produced waters. Pollution caused almost complete die-off of larch stands and death of understorey plants. We have not observed active natural revegetation in two years since the last spill. Secondary forest pest and fire hot spots formed within the limits of disturbance. Affected sites require soil remediation and larch plantation establishment. The measures needed to address negative impacts on forest ecosystem are suggested.

Key words: larch forests, Dahurian larch, oil spill, salinization, anthropogenic impact, plant community disturbance, Sakhalin.