

Table 1. Examples of studies employing eDNA in Alaska. Note that data from some of these studies have not yet been published.

Project Description	Target Habitat	Assay Type	Institution(s)	Reference
Detection of invasive pike before and after eradication	Kenai Peninsula Lakes	qPCR	US Fish and Wildlife Service, Alaska Dept. of Fish and Game	Dunker et al. 2016
Detection of wood frogs	Ponds in Interior Alaska	qPCR	University of Alaska Fairbanks	Spangler et al. 2018
Population structure of harbor porpoises	Ocean in Southeast Alaska	metabarcoding	National Marine Fisheries Service	Parsons et al. 2018
Estimating run abundance for sockeye and coho salmon	Auke River in Juneau	qPCR	National Marine Fisheries Service, Oregon State University, University of Alaska Southeast	Levi et al. 2018
Detection of 5 fish species on the North Slope	Lakes in the National Petroleum Reserve	qPCR	Bureau of Land Management, NASA, Utah State University	Rodgers et al. 2017
Mapping juvenile Chinook salmon habitat use	Streams in the Chena River basin	qPCR	University of Alaska Fairbanks	Matter et al. 2018
Detection of multiple fish species	Lakes and streams on the North Slope and in DENA and WRST	metabarcoding	National Park Service, US Geological Survey	Menning et al. 2018
Species composition of Quaternary plant communities	Soils in Interior Alaska	metabarcoding	Various	Willerslev et al. 2014
Detection of ancient mammoths and horses	Soils in Interior Alaska	metabarcoding	Various	Haile et al. 2009
Detection of five loon species	Lakes in northwest Alaska	metabarcoding	National Park Service, US Geological Survey	Not yet published
Analysis of loon diet from scat	Lakes in northwest Alaska	metabarcoding	National Park Service, US Geological Survey	Not yet published
Detection of the invasive aquatic plant <i>Elodea</i>	Lakes and streams in Alaskan national parks	metabarcoding	National Park Service, US Geological Survey	Not yet published
Detection of the invasive aquatic plant <i>Elodea</i>	Lakes and streams across Alaska	qPCR	US Fish and Wildlife Service	Not yet published
Detection of multiple aquatic invasive species	Lakes and streams in Alaskan national parks	metabarcoding	National Park Service, US Geological Survey	Not yet published
Detection of multiple native aquatic and semi-aquatic species	Lakes and streams in Alaskan national parks	metabarcoding	National Park Service, US Geological Survey	Not yet published
Detection of multiple rockfish species	Ocean in Southeast Alaska	metabarcoding	National Marine Fisheries Service	Not yet published