

**FEATURE PROJECT**

# **HYDROELECTRIC DAM INVESTIGATION USING GEOPHYSICS**

Alaska, USA





## Alaska Cooper Lake Dam

ConeTec recently completed a geophysical site investigation at Cooper Lake Dam in Alaska.

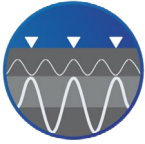
Mobilized from Seattle, the team used surface geophysics to profile the dam.

The goal was to better understand ground conditions and analyze seismic stability without disturbing the dam structure, an objective ideal for surface geophysical methods, which are entirely non-invasive.





# SCOPE OF WORK



- Geophysical seismic data to support stability analysis of the dam
- Four separate geophysical testing arrays, each with 2D MASW and Seismic Refraction.
- Total array length: 2,000 ft (610 m)
- Depths of interest: surface sediment deposits down to glacial till (< 100 ft / 30 m)





## THE FIELD TEAM



*Chugach and our McMillen team were impressed with the hard work and positive attitude of Amber and Emily on site. I have a high opinion of working with ConeTec from my days in Vancouver, and I'm glad to see that the US team is also strong.*

*- Bryant W.  
McMillen*





## OUTCOME

- ➔ The data collected will help the client characterize the seismic stability of the dam and identify if further investigations are required.



BETTER INFORMATION,  
**BETTER DECISIONS**



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