

Seismicity, safety, and science.

Everything in Alaska is bigger, including earthquakes. While seismic risk near the Deposit is relatively low, we are taking extraordinary steps to protect people and the environment. Mine facilities will withstand the greatest possible seismic activity predicted by science.

1 Our design accounts for Alaska's largest earthquakes.

We used **USGS data** to calculate peak ground acceleration for “**maximum credible earthquakes**” along the very same subduction zone which created the 9.2 magnitude quake in 1964.

2 We assume the maximum quake at the Lake Clark Fault.

There has been **no major seismicity** along the Lake Clark Fault for 11,000 years. That's **since the last Ice Age**. But our facilities are still **designed to withstand** the largest possible quake there.

3 We even assume a floating fault at the mine site itself.

Even though **no evidence of a fault exists**, our mine facilities are designed to remain safe and maintain integrity during a **magnitude 6.5 quake** directly below the Pebble mine site.

Where to learn more...

This is one in a series of fact sheets on the Pebble project. You can find other topics, FAQs, and more by visiting www.PebbleUpdate.com

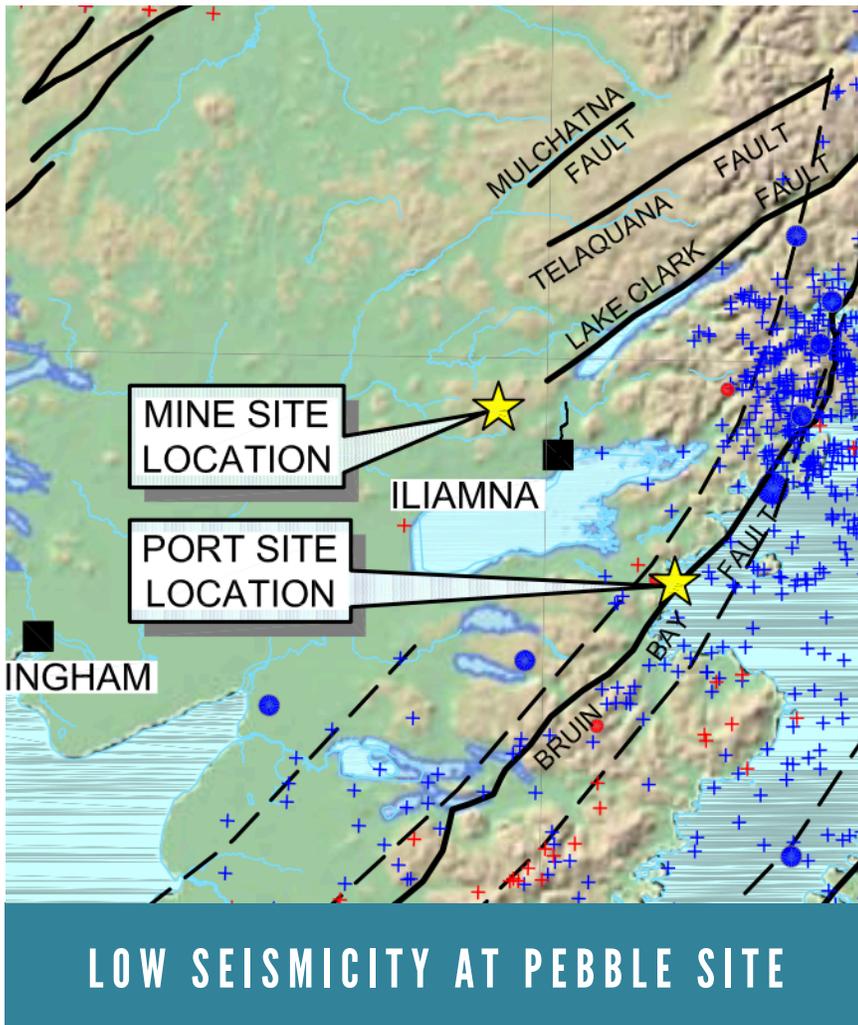


Don't take our word for it.

Even though we've taken a **highly conservative approach** to designing mine facilities to protect people and the environment, we're not asking for blind trust. Every aspect of construction, management, and closure will be **overseen and certified by the Alaska Dam Safety Program**.

Our new plan meets or exceeds the Alaska Dam Safety Program's rigorous requirements, which means **we assume a worst-case earthquake scenario** in every aspect of our design. And while we made significant investments in our own scientific research, we also rely on data from the **United States Geological Survey** and **Alaska's Department of Natural Resources**. What does this mean?

The mine is designed to withstand the greatest possible seismicity predicted by science.



Proven Applied Science

Our design is not based on theory, but construction methods with a time-tested record of success.

- 1** The Las Tortolas tailings storage facility (TSF) in Chile **withstood an 8.8 earthquake** in 2010.
- 2** Although eight major TSFs are nearby, **not a single one was damaged**.
- 3** We will apply and improve the **same technologies**.

“Peak ground” what?

The key to predicting the effect of seismicity is **understanding ground acceleration** — the **energy which travels across distances** and creates surface disruption.

Contact the Partnership

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