

Lower Cook Inlet 3D Seismic Survey

Mike Dunn, Project Manager

Integrity • Urgency • Ownership • Alignment • Innovation



Hilcorp Alaska – Our Goals

OUR GOALS

- Operate safely and environmentally responsibly
- Invest to develop additional oil and gas production and reserves
- Create efficiencies and innovations that extend field life
- Increase asset values over the long term

BENEFITS

- Provide affordable energy for Alaskans
- Increased royalty payments
- Increase property values and taxes
- Extend the life of existing fields
- More Jobs





Safety lives in our Values

INTEGRITY

Operating safely and maintaining environmental stewardship are the right things to do.

URGENCY

Do the **right thing**, the **right way**, as quickly and **safely** as possible.

OWNERSHIP

We encourage and expect all **employees** and **contractors** to take personal **accountability** and have **ownership** of their own safety and the safety of those around them.

ALIGNMENT

We **all** win when we maintain and encourage safe and environmentally responsible operations.

INNOVATION

We work to **get better every day** in operational safety and environmental monitoring and mitigation



Integrity: Do the Right Thing

Hilcorp recognizes the importance and sensitivities of the Cook Inlet region and our obligation to execute our work in a responsible manner.

Our team will be doing all it can to minimize any potential disturbances.





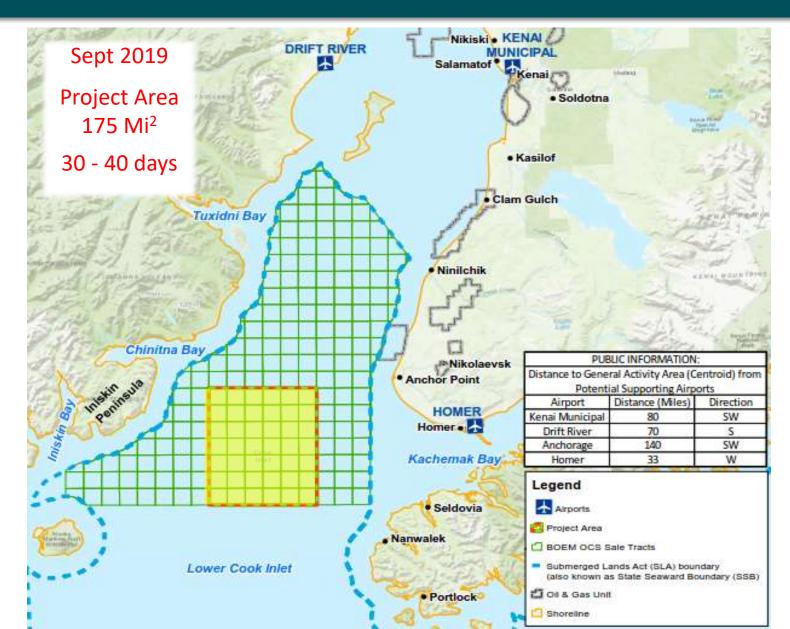








Survey Area: Lower Cook Inlet





Sound Safety



JASCO Applied Sciences provides consulting and research services for assessing and mitigating underwater noise.



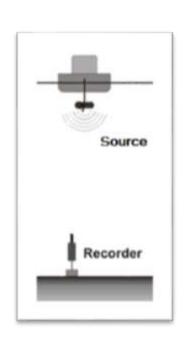
SOUND SOURCE VERIFICATION

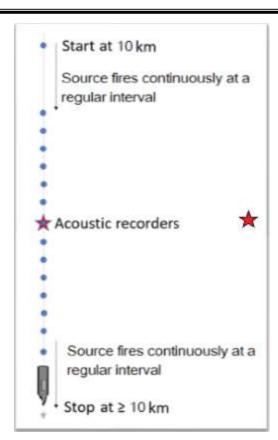
Measurements and Safety Zones Established BEFORE Activity Begins

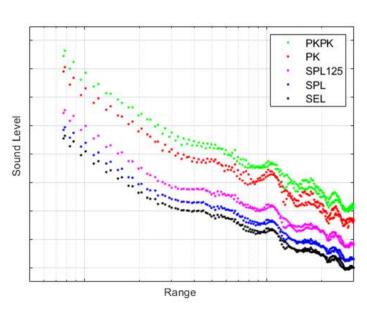


Sound Source Verification

- Two acoustic recorders will be placed on the seafloor to record underwater sound levels while the survey vessel passes by.
- Sound levels will be measured at multiple distances from the seismic source.
- These data will be used to determine the distance from the source to the sound threshold that defines the marine mammal safety zone.









Protected Species Observers (PSO)

PSOs WILL BE IN PLACE ON SEISMIC VESSEL, OBSERVATION

VESSEL, AND HELICOPTER

- Wildlife and Protected Species Monitoring
- Data Collection



PSOs HAVE DIRECT COMMUNICATION WITH VESSEL CREWS

Vessel crews will SHUTDOWN activity if marine mammals are observed within specified distances of work vessels



The Fairweather Science team is composed of experienced environmental professionals with a proven history of successful operations in Alaska, and a strong commitment to safety, professionalism, and environmental responsibility.

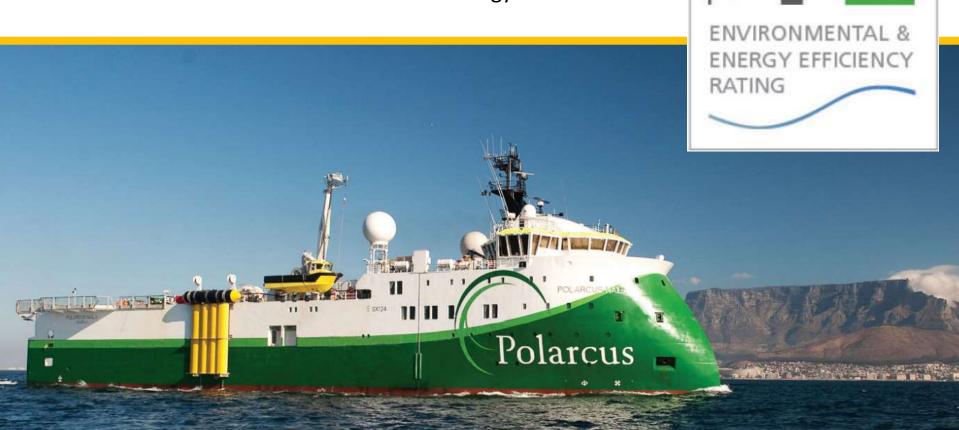




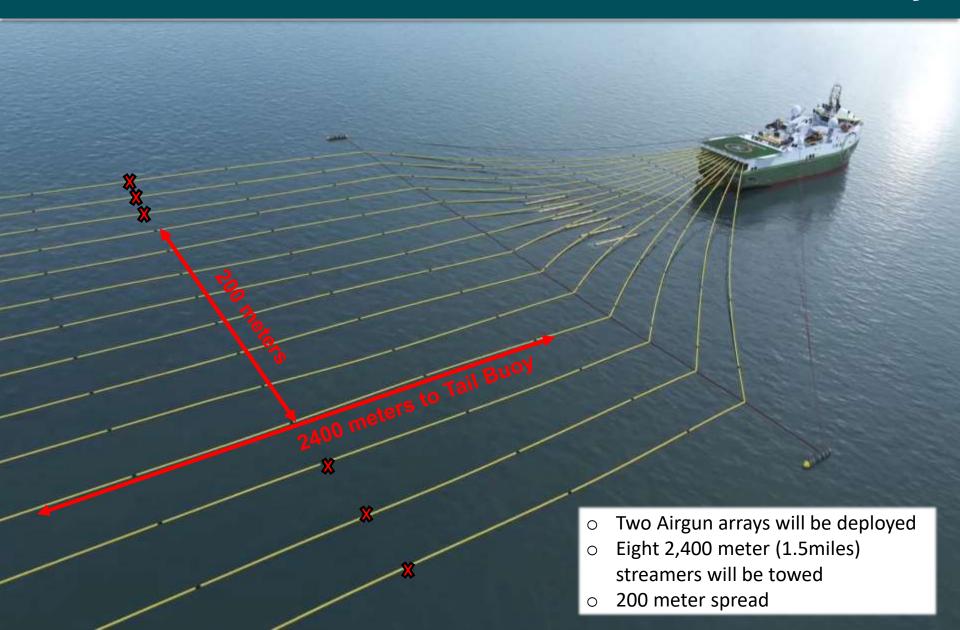
Seismic Vessel: Polarcus Alima

2010 ULSTEIN SX124

- 91 Meter Double Hull Vessel with Helideck
- Diesel-Electric Propulsion
- DNV Clean Design Compliant
- Most advanced commercial seismic technology available











Polarcus

- 3-7hrs per 16 mi. line length dependent on tidal currents
- Vessel speed ~ 4.5 knots
- ~40 days to survey the area









~500m / .27Nm aft of the vessel



- Each streamer head marked with yellow float
- o ~500m / .27Nm aft of vessel

 Each streamer tail marked with yellow navigation buoy- radar reflector, GPS & flashing light

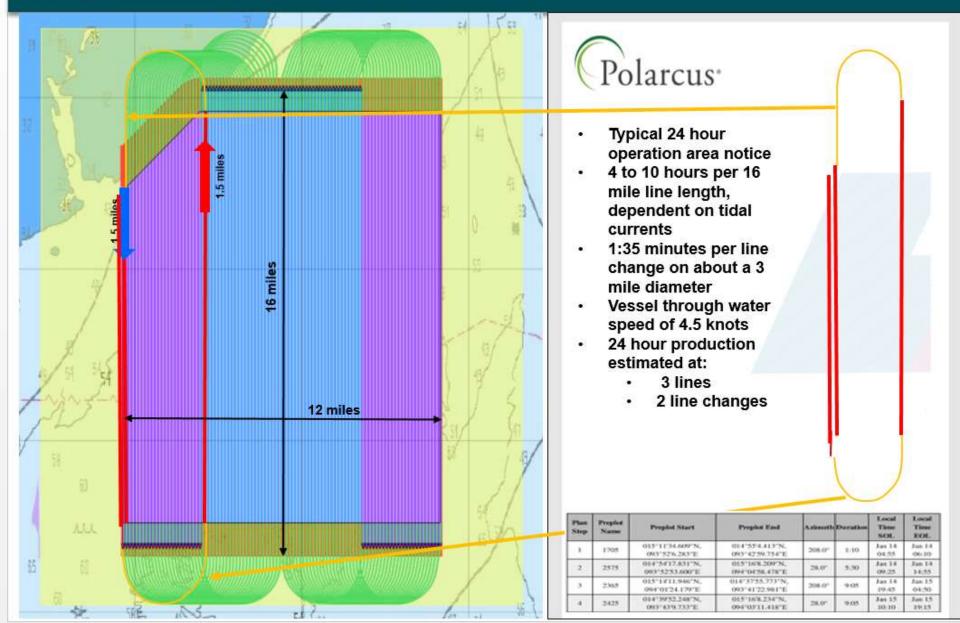
2400m / 1.3Nm aft of vessel





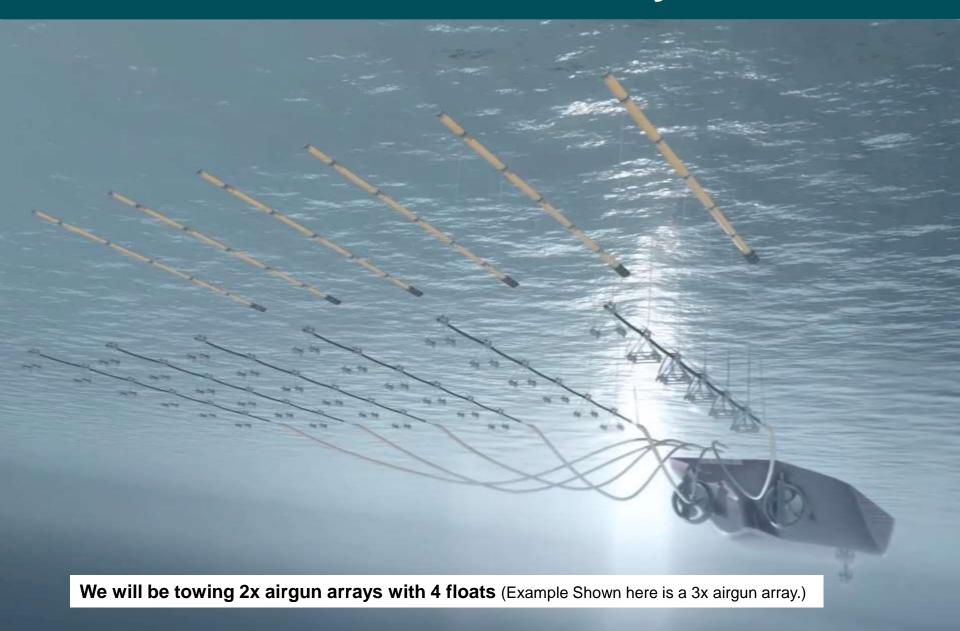


Details of racetrack acquisition & 24 hr look ahead



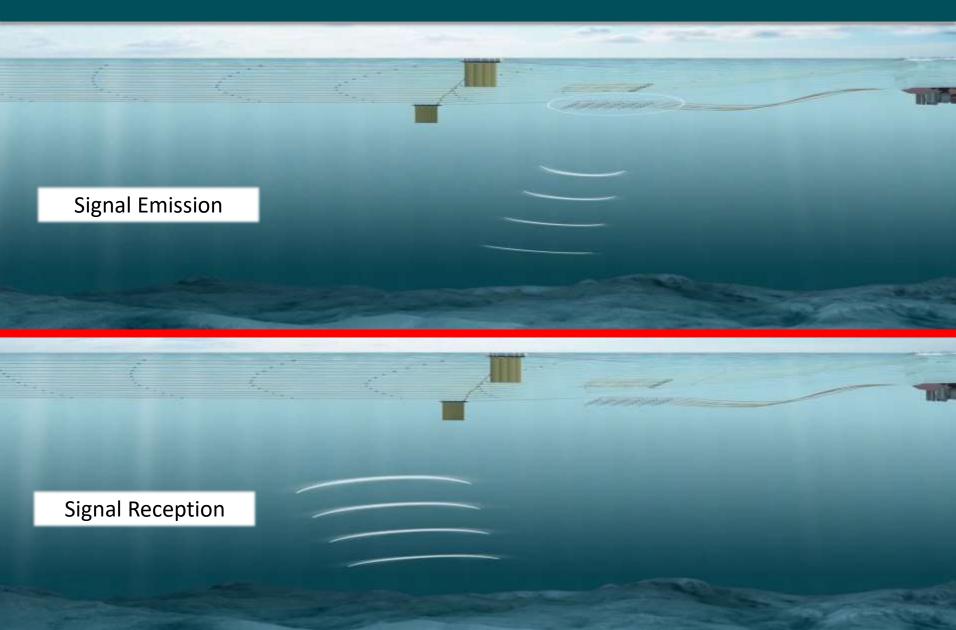


Towed Seismic Array: Subsurface





Seismic Reflection





Subsistence & Community Cooperation

Hilcorp will host a daily call with interested subsistence users and local mariners, to share information on seismic activity for that day.

Our goal is to share information so that all parties can avoid surprises and conflicts.

Calls will begin September 10 and occur daily until operations are completed

Daily call time: 10:00 am

Call in Number: 907-777-8599





A website has been created that will provide public daily updates during the active survey

www.hilcorp.com/3dsurvey





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