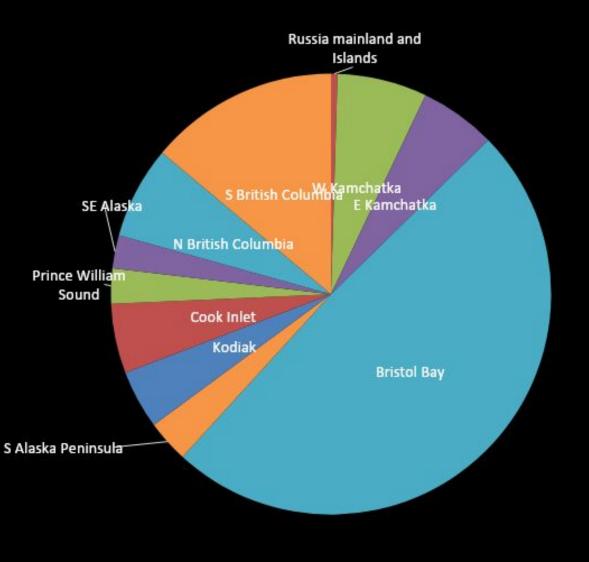
Pebble Mine: A case study in science and policy relative to a NON-transboundary mine

Sarah O'Neal (via Carol Ann Woody) University of Washington Agua Dulce Freshwater Consulting

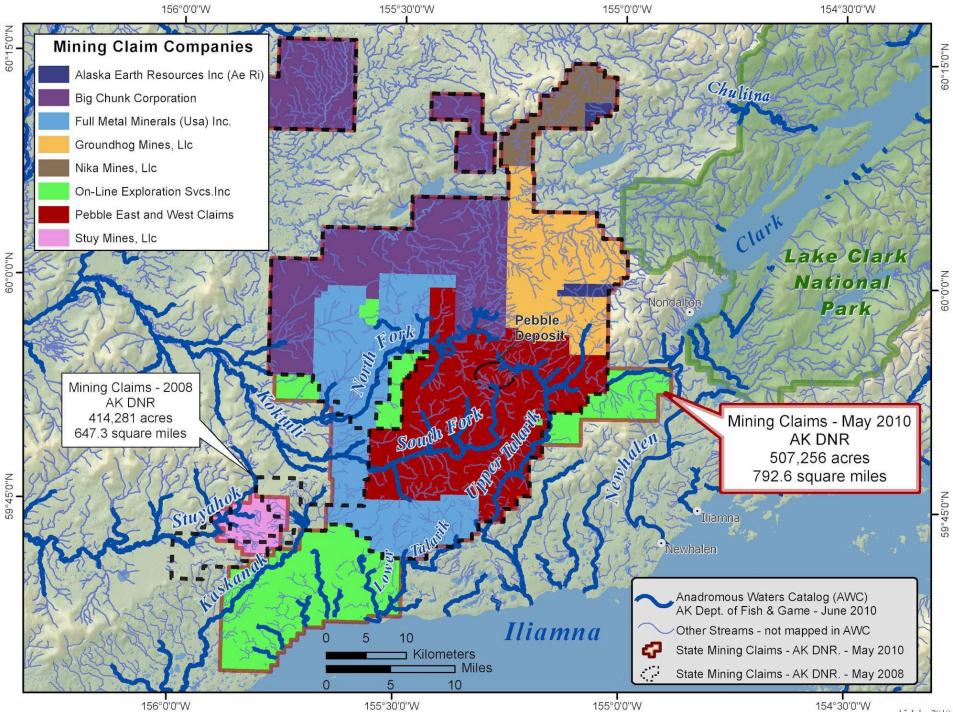


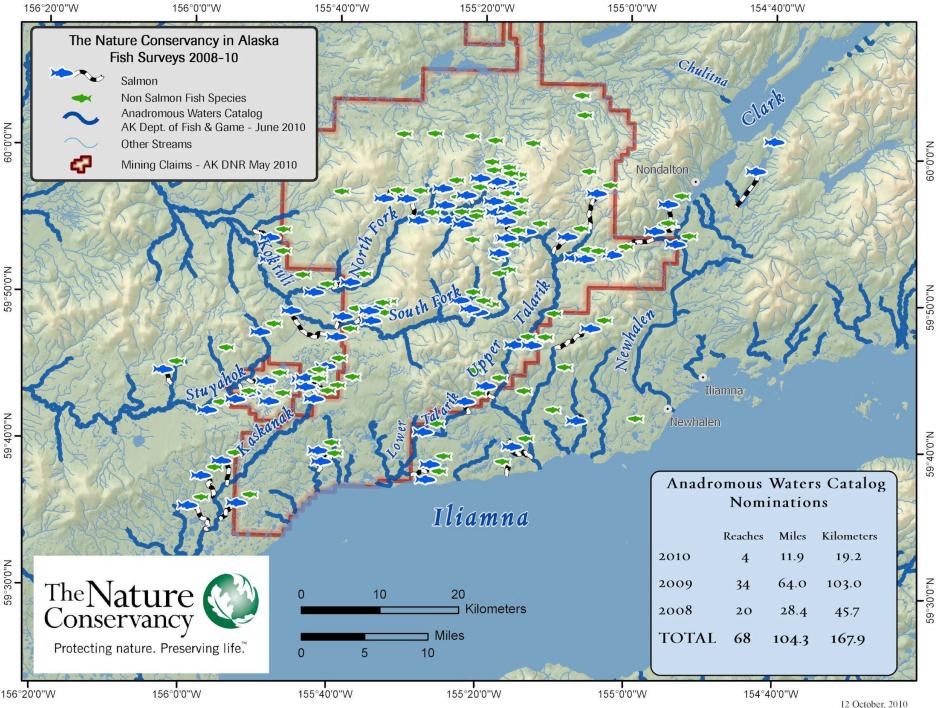
Nearly half of the world's sockeye salmon are from Bristol Bay





From Ruggerone et al. 2010





Industry Science



TELEVISION - RADIO - NEWS - EDUCATION - SUPPORT -

Panels Discuss Studies for Pebble Mine in Anchorage

By Daysha Eaton, KMXT - Kodiak - October 2, 2012

Sale Prode



Photo. wichael weilord

ABOUT US

CONTRIBUTI

(Former) Agency Science

DO MORE SURF

conservative Bristol Bay Watershed Assessment: Alaskans would

nates impacts of industrial development to salme

Trans textuit touseer wattive bission bay valuetation assessment: Auassans would bion resources for a nonrenewable, privately owned mineral resource and a mineral resource and a

EPA's Pebble assessment sells Bristol Bay salmon

An Assessment of Potential Mining Impacts

An Assessment of Potential Mining Impacts on Salmon Ecosystems of Bristol Bay, Alaska

CONCLUSION: "The Assessment found that mining the headwaters of these river systems could cause harm to the valuable fishery in-ANCHORAGE DAILY NEWS Bristol Bay."

DAILY NEWS

Author: Margaret Baum

as biased, manipulative

process was week against a way review it headwaters of the Bristol Bay watershed.

to EPA's own guidelines.

Northern Dynasty trashes federal Pebble report

Advocates for a massive copper, gold and molybdenum mine in Southwest Alaska fired another round of menore this work againer a draft foderal recent accessing the time and error of such a mine or the

In its 205-page submission to the U.S. Environmental Protection Agency, Northern Dynasty Minerals 131 albeit the FDA's draft document and the process to complete it "biased, manipulative and contract In its 205-page submission to the U.S. Environmental Protection Agency, Northern Dynasty Minerals Ltd. called the EPA's draft document and the process to complete it 'biased, manipulative and contrary to EPA's own outdolinee'.

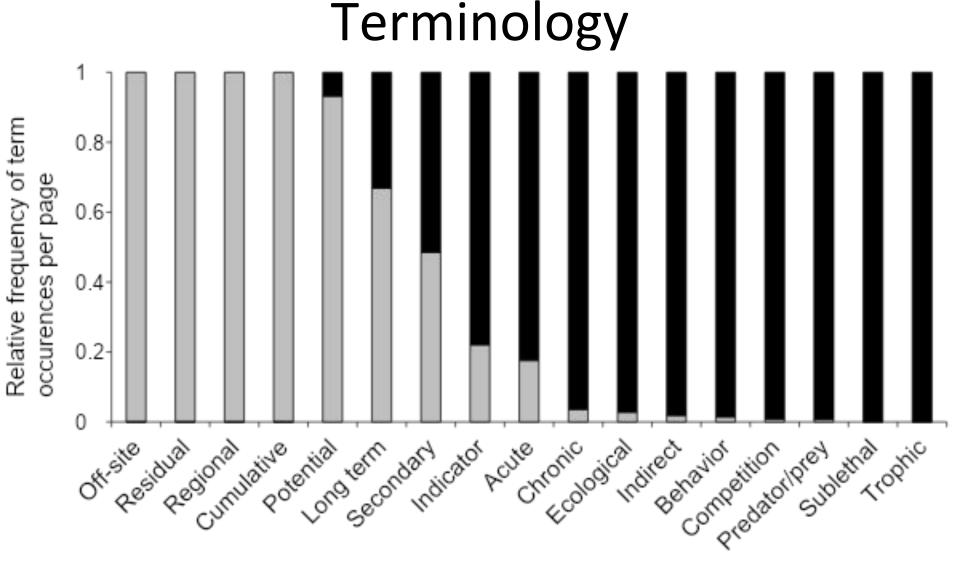
Advocates for a massive copper, gold and molybdenum mine in Southwest Alaska fired another ro protest this week against a draft federal report assessing the pros and cons of such a mine at the headwarters of the trient Ray watersheat

NGO and University Science

EPA protocol (was EMAP now NARS)
Physical habitat
Diatoms
Macroinvertebrates
Fish

Additional •eDNA •Evaluation of

Evaluation of non-traditional bioindicators (sculpin)
Comparison between science and permitting



NEPA documents Ecological literature

(New) Agency "Science"

Pebble Project EIS

CONCLUSION: "No population-level impacts would be expected for fish..."

EPA: The draft EIS lacks critical information and likely underestimates the risk the project poses to water quality and aquatic resources

DOI: The DEIS was so inadequate that it precludes meaningful analysis

Thank you, and questions?



Photo: Michael Melford