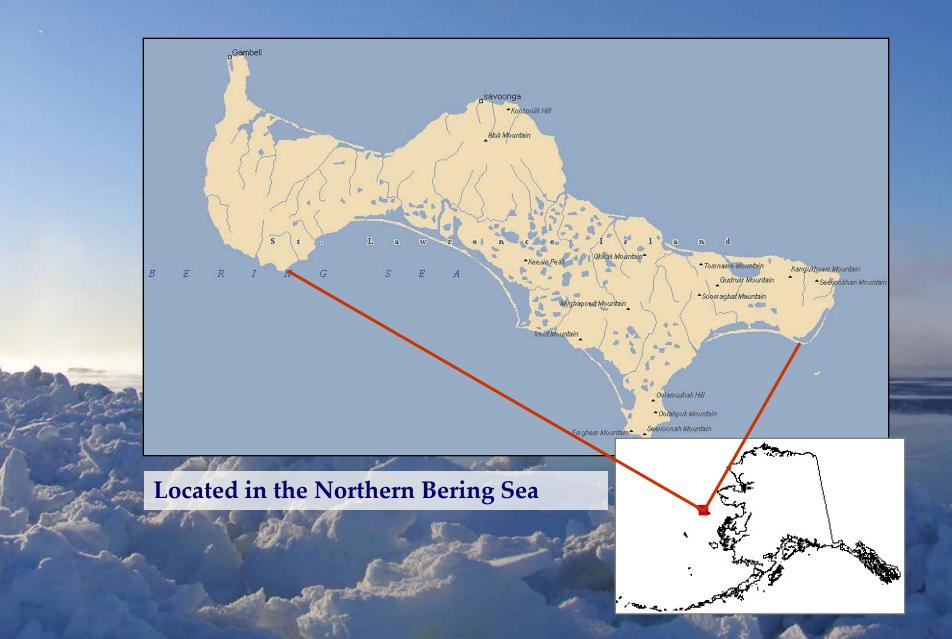


Community-Based Participatory Research on St. Lawrence Island: How Yupik Residents are Helping Identify Persistent Pollutants

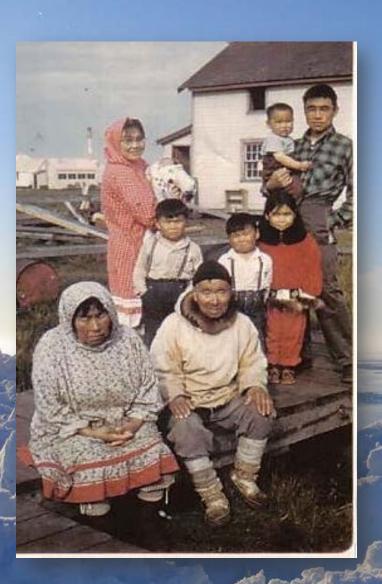
Vi Waghiyi, Tribal Member, Native Village of Savoonga and Environmental Health and Justice Program Director, Alaska Community Action on Toxics

> vi@akaction.org (907) 222-7714 www.akaction.org

Where is St. Lawrence Island?



Voices of Our Ancestors

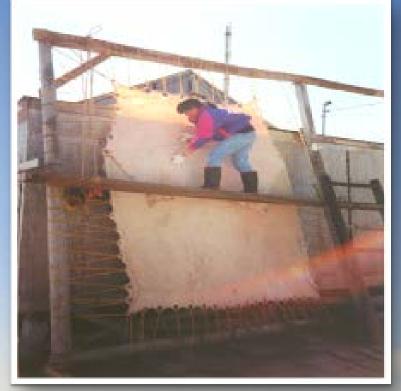






Traditional ecological knowledge is our foundation for living in harmony today

- "Our Traditional Ecological Knowledge is a way of life intended by our Creator to live in harmony with our lands, waters and environment. It is the foundation of our cultural beliefs. Foremost is the highest respect for our Creator and living as the Creator intended as keepers of our Mother Earth—as stewards, caretakers, conservationists, and scientists. We have our own laws which protect our communities."—Delbert Pungowiyi, President, Native Village of Savoonga
- "We have always been a vigilant people. Our community-based research enables us to be vigilant at the molecular level."—Merle Apassingok, Native Village of Gambell





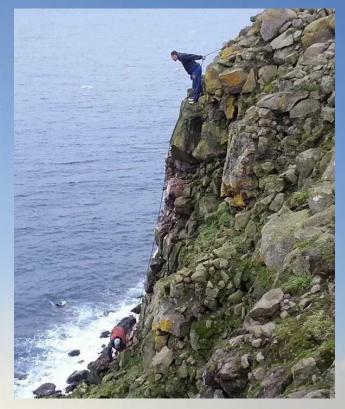


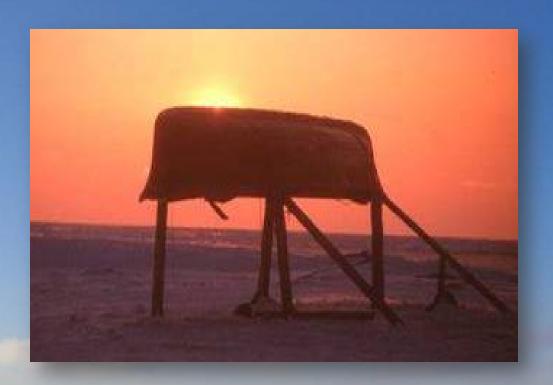




Traditional ecological knowledge includes health, environment, and culture

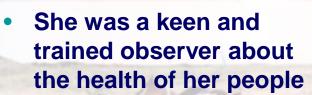
- Our traditional knowledge is shared with each other. Our parents and grandparents are our first teachers. Our environment is well taken care of. We live in harmony with each other and take care of each other, our families, and our neighbors as one.
- We understand what is happening to our health and we have no doubt. Present day, we are not believed. It is so painful for our people.—Harriet Penayah, Elder and former Community Health Aide



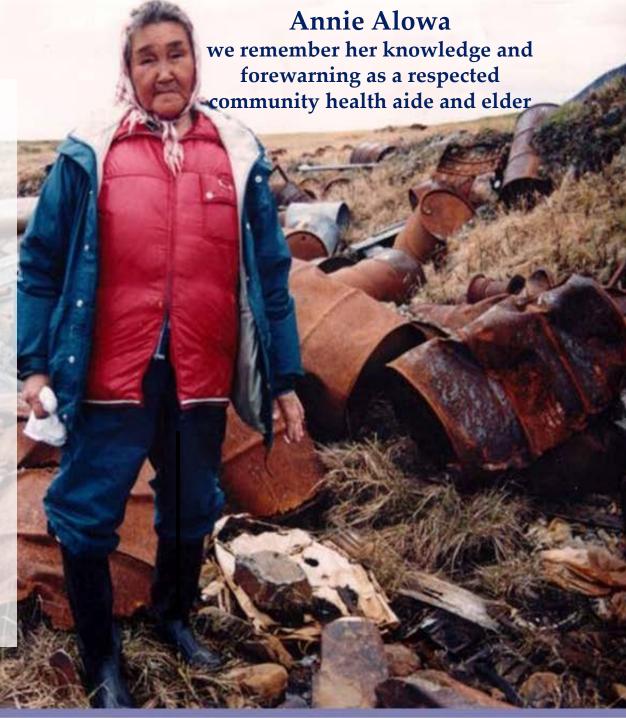


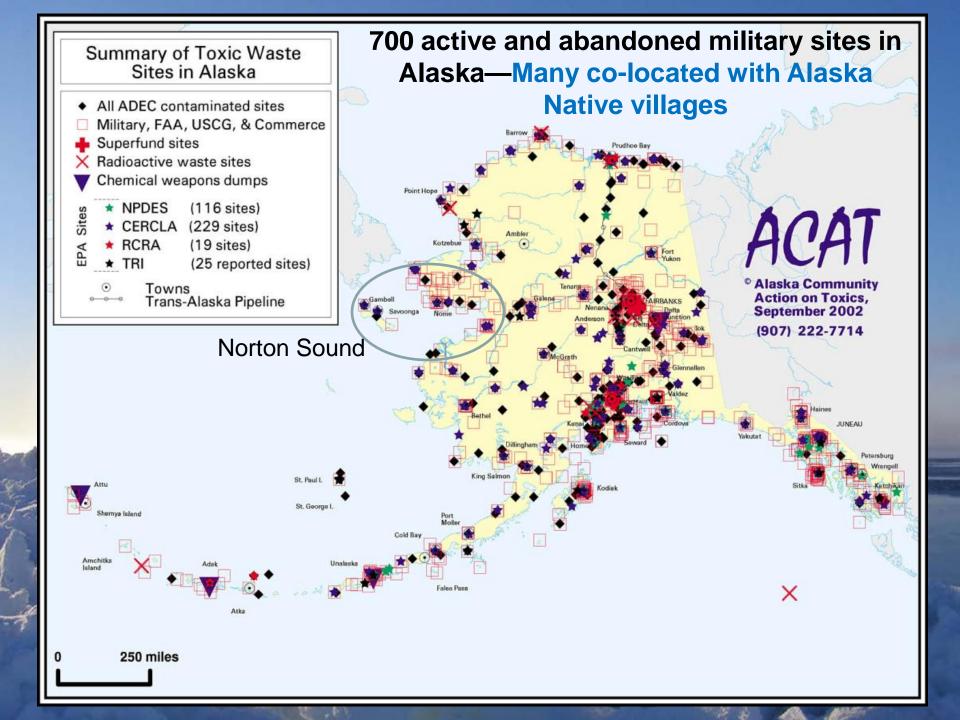






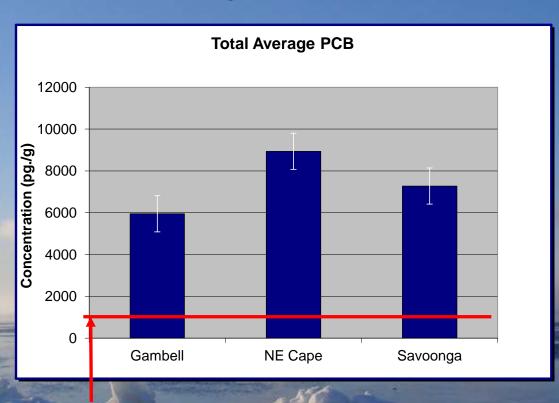
- She observed higher rates of cancers among the people whose families lived and worked at Northeast Cape
- She witnessed
 miscarriages and low
 birth weight babies,
 especially among those
 families closely
 associated with
 Northeast Cape
- She inspires our work everyday!





PCBs in Blood Serum of St. Lawrence Island People

- Levels of PCBs in the blood of St. Lawrence Island Yupik people 6-9 times higher than average in lower-48 populations
- Evidence of PCBs accumulating in the Arctic via global transport
- Military contamination also a significant source
- Published in the International Journal of Circumpolar Health



Average for populations in the Lower 48

Health Disparities Witnessed by the Yupik People of St. Lawrence Island—

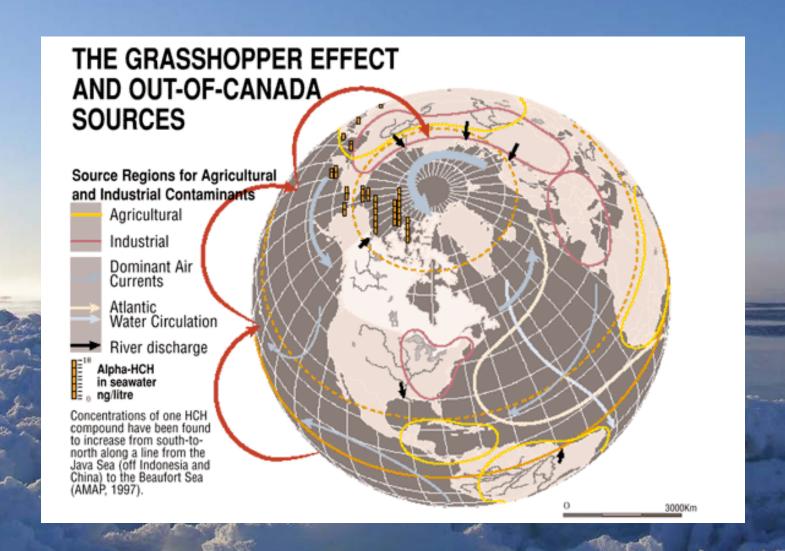
"Diseases never or rarely seen before in our people..."

High rates of:

- Cancers—drastically increasing in our people since the military occupation; a cancer crisis
- Thyroid disease
- Diabetes
- Heart disease
- Low birth weight babies, premature births, still births, miscarriages
- Other reproductive health problems
- Learning and developmental disabilities



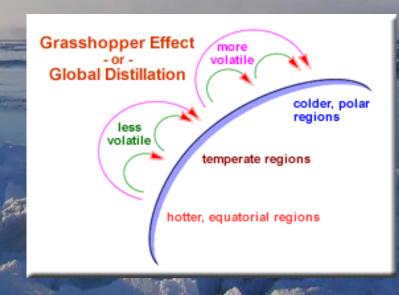
Global Transport of Persistent Chemicals into the Arctic

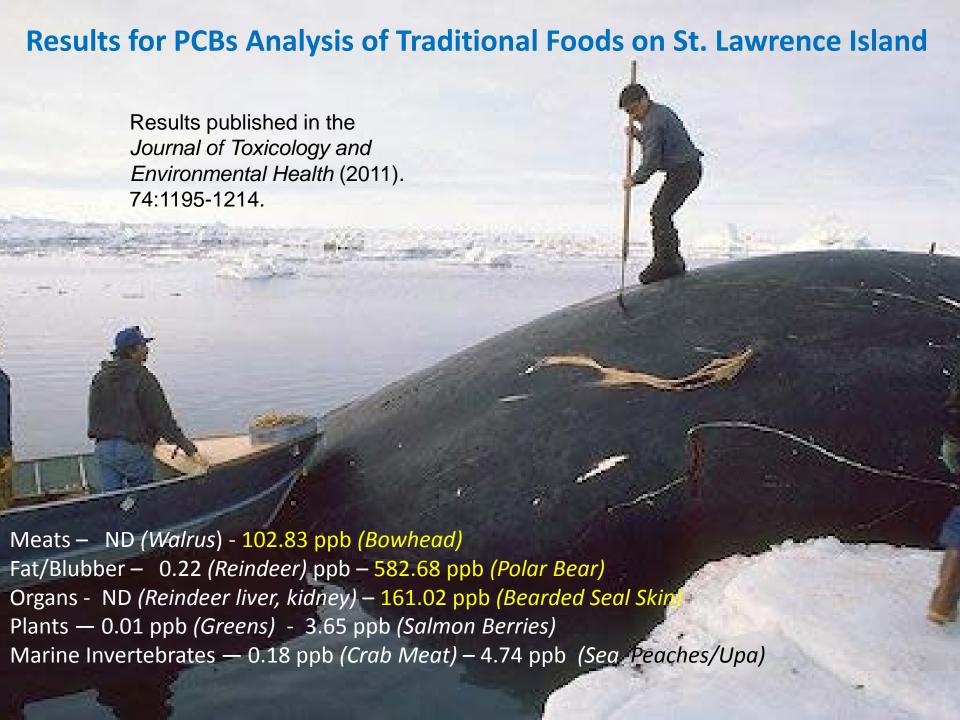


Contaminants in the North

- The north has become a hemispheric sink for pesticides and other industrial chemicals
- Northern food webs favor the deposition and retention of persistent, bio accumulative toxics
- Contaminants in the north threaten the health of peoples that rely on traditional diets of fish and marine mammals
- Global warming enhances the mobilization and transport of contaminants from local and distant sources







EPA Fish Consumption Guidelines for PCBs

- Unlimited Consumption for non-cancer risks (all diseases <u>except</u> cancer): 5.9 ppb
- Unlimited Consumption for cancer risk: 1.5 ppb

As the levels go higher, the EPA recommends fewer meals per month

Example of EPA's Guidelines

See	100 ppb	300 ppb
Non cancer risk (diseases other than cancer)	No more than one meal a month	No more than one meal every other month
Cancer risk	Do not eat	Do not eat

17 Years of Community-Based Participatory Research and Policy Engagement

- Foundation of elder knowledge and community leadership
- Fostering collaborations with academic researchers
- Training of community health researchers
- Emphasis on community-right-toknow, capacity building and empowerment
- Community-based research Institute
- Training for health care providers
- Work on policy change with other environmental health and justice organizations on state, national, international levels





Community-based Research Institute



Organizing with Youth, Women, and Elders to Achieve Health, Human Rights, Environmental and Reproductive Justice



Human rights training for youth





2nd Norton Sound Indigenous Women's Gathering 2017

Indigenous Peoples Have a Vital Role in Stockholm Convention







The Language of the Stockholm Convention

- "Aware of the health concerns...in particular impacts upon women and children and, through them, upon future generations."
- "Conscious of the need for global action..."
- "Acknowledging that precaution underlies the concerns of all the Parties and is embedded within this Convention..."
- "Determined to protect human health and the environment..."

 "Acknowledging that the Arctic ecosystems and Indigenous communities are particularly at risk..."

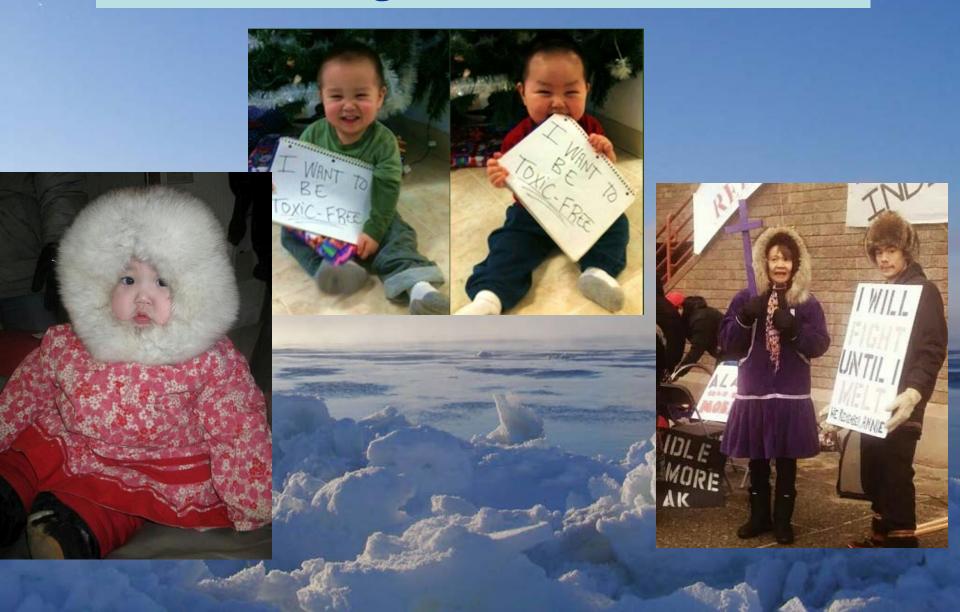




"The chemicals present in our bodies are passed onto our Indigenous children and harm their ability to learn our languages, songs, stories, and knowledge."

Intervention of Vi Waghiyi, St. Lawrence Island Yupik Mother and Grandmother, Representing the Global Indigenous Caucus at the Stockholmm Convention on Persistent Pollutants in May 2015

Protecting Future Generations





"We don't want any of you to fight with each other, but work together to clean it up for our sake." – Annie Alowa
Thank You. Igamsiqayugviikamsi

Join Us!



www.akaction.org 907-222-7714

