

# ARWSWG



## Alaska Rural Water and Sanitation Working Group

*The Working Group's mission is to maximize the health benefits of in-home water and sanitation services in rural Alaska.*

### Membership

Cheryl Rosa & Caitlin Tuberville, USARC

Michael Bruce & Maya Ramaswamy, CDC

Robert Chambers, USDA

Dennis Wagner, USEPA

Tom Wolf, Denali Commission

Chris Fehrman, IHS

Carrie Bohan, ADEC

Sarah Yoder, ADHSS

Brian Lefferts, YKHC

John Warren & Jacqueline Schaeffer, ANTHC

Aaron Dotson, University of Alaska Anchorage

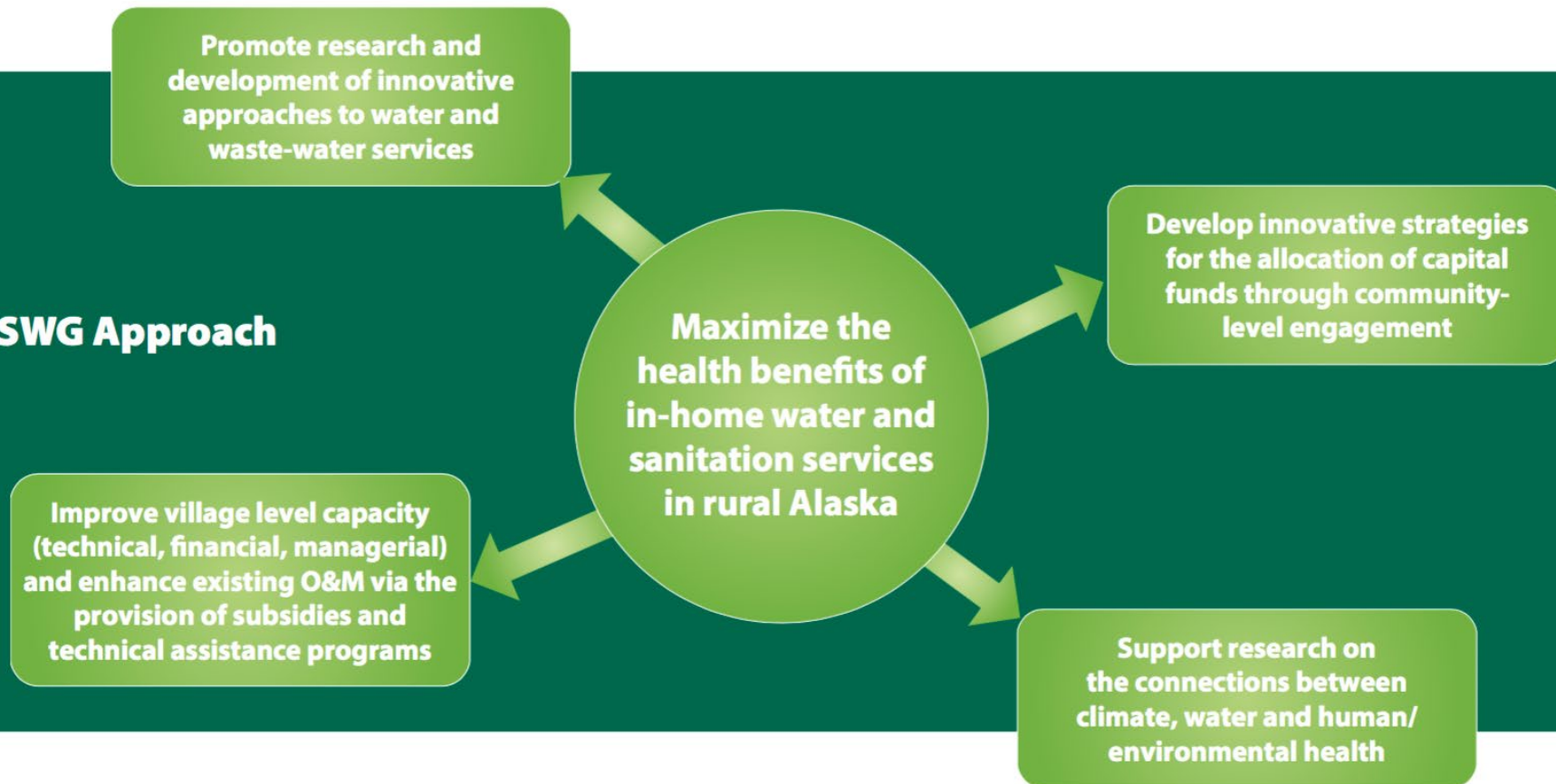
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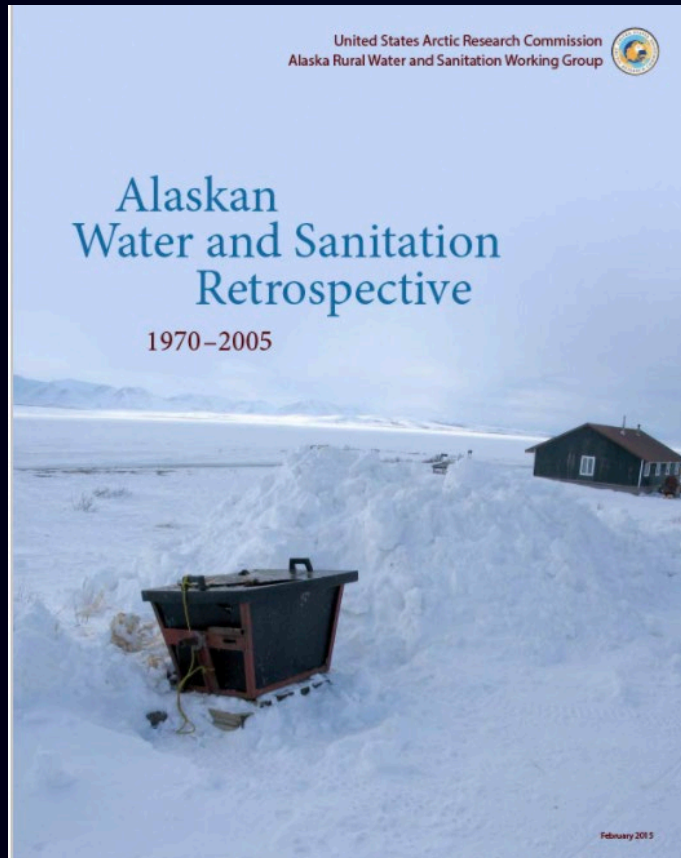
State

Tribal Health

University

## ARWSWG Approach





The purpose of this retrospective was to inform the water and sanitation industry and the general public about technologies deployed in rural Alaskan villages between ~1970 and 2005 and why the majority failed on a technical level or failed to provide adequate water on an as-used basis to improve health outcomes.

[https://www.arctic.gov/uploads/assets/watersan\\_retrospective\\_v2.pdf](https://www.arctic.gov/uploads/assets/watersan_retrospective_v2.pdf)

## **ARSWG Recent/Upcoming/Ongoing Projects and Activities**

- 1) Alaska Water and Sewer Challenge (initiated in 2012)
- 2) Engineering Atlas supporter
  - Coordinating partners, expect small planning workshop
- 3) Development of communication strategy for public & legislature
- 4) ALPHA Conference - Annual Post-Conference Session Organizer

# Alaska Water and Sewer Challenge

- Focused on decentralized water and wastewater treatment, recycling, and water use efficiency
- The primary goal is to significantly reduce the capital and operating costs of in-home running water and sewer in rural Alaska homes
- Project is in Phase 4 – Field System Development and Testing



ANCHORAGE, ALASKA • 2016 SEPTEMBER 18 - 21  
WATER INNOVATIONS FOR HEALTHY  
ARCTIC HOMES  
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## CONFERENCE

WATER INNOVATIONS FOR HEALTHY ARCTIC HOMES

ADDRESSING THE CHALLENGES OF PROVIDING SAFE AND AFFORDABLE  
ACCESS TO HOUSEHOLD RUNNING WATER AND SANITATION IN REMOTE  
ARCTIC AND SUB-ARCTIC COMMUNITIES



### CONFERENCE THEMES

THE IMPACT OF HOUSEHOLD WATER AND SANITATION  
ON ARCTIC HUMAN HEALTH

CLIMATE CHANGE IMPACTS ON WATER AND SANITATION  
INFRASTRUCTURE IN THE ARCTIC

INNOVATIVE ENGINEERING APPROACHES TO INCREASE ACCESS TO WATER  
OF ADEQUATE QUALITY AND QUANTITY, INCLUDING WATER REUSE

METHODS OF OWNERSHIP, OPERATIONS AND MAINTENANCE TO MAXIMIZE  
USEFUL LIFE OF WATER AND SEWER SYSTEMS IN THE ARCTIC

REGULATIONS AND POLICIES AFFECTING ACCESS TO AND THE COST OF  
PROVIDING ADEQUATE QUANTITIES OF WATER IN THE HOME

**ANCHORAGE HILTON  
ANCHORAGE, ALASKA  
SEPTEMBER 18-21, 2016**

International week-  
long workshop held  
in conjunction with  
the US  
Chairmanship of the  
Arctic Council



# Annual Water and Sanitation Innovations for the Arctic

## Workshop: *ALPHA Sessions*

- 2011 – State of Water/Wastewater Affairs
- 2012 – Exploring Innovative Ideas
- 2013 – Update on AK R&D & Assessing Metrics
- 2014 – Future of Washeterias
- 2015 – Wastewater Treatment and Disposal
- 2016 – Education & Outreach in Rural Water and Sanitation
- 2017 – Climate Change, Water, and Health
- 2018 – Investigating impacts of inadequate water provision in rural Alaskan households
- 2019 – Alternative Approaches, Focus on Gray Water Recycling Technologies
- 2020 – Prioritizing Water and Sanitation Capacity Needs
- 2021 – Tracing the Pandemic in Wastewater