

7th Annual Water and Sanitation Innovations for the Arctic

Friday, January 20th, 2017

WATER, CLIMATE AND HEALTH

A Workshop Cosponsored by:

U.S. Arctic Research Commission and the Centers for Disease Control and Prevention

Friday, January 20th – The Endeavor Room at the Captain Cook Hotel (939 W. 5th Avenue, Anchorage, AK)

ALPHA Alaska Health Summit-associated session of interest: **“Progress Towards Providing In-Home Water and Sanitation Services in Rural Alaska Homes: Healthy Alaskans Indicator #19” – January 18th from 1:30 - 2:45 PM.** Link to ALPHA Alaska Health Summit Schedule can be found at: <http://www.alaskapublichealth.org/health-summit/>

Workshop objectives: •Design a plan for an “asset inventory” of at-risk water and sanitation infrastructure.
•Assess community-based monitoring and response strategies involving health and water-related resources/infrastructure failure. •Provide an update on the knowledge shared at the Water Innovations for Healthy Arctic Homes (WIHAH) Conference.

8:00 A.M. Room is open for participants, coffee will be served

8:30 A.M. Meeting commences

Session 1: Workshop objectives and review of climate change impacts on water systems and health

8:30- 10:00 A.M.

8:30-8:45	Introductions/introductory remarks/WIHAH climate change session recap (C. Rosa, USARC)
8:45-9:00	Background on need for asset inventory (D. Wagner, EPA/B. Griffith, ADEC)
9:00-9:15	Disease/behavioral health impacts presentation (T. Hennessy, CDC)
9:15-9:30	Damage/disruption to water infrastructure (C. Bohan, ADEC)
9:30-9:45	Changes to source water quality or quantity/availability (J. Warren, ANTHC)
9:45-10:00	Water/food security presentation (C. Behe, ICC)

10:00-10:30 A.M. Break

Session 2: Existing climate change impact data and approaches

10:30-noon

10:30-10:45	Waste Erosion Assessment and Review (WEAR) Project (R. Colvin/B. Blankenburg, ADEC)
10:45-11:00	Water Infrastructure funding outlook: WIIN, WIFIA, WRDA update (C. Rosa, USARC)

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| 11:00-11:15 | Water and wastewater system hazard vulnerability analysis in the Y-K Delta region (B. Lefferts, YKHC) |
| 11:15-11:30 | Climate change-related survey results from Arctic Council WASH survey (J. Bressler, AK Section of Epidemiology) |
| 11:30-11:45 | Existing plans to deal with catastrophic failure of community water/wastewater systems: Hazard Mitigation Plans (K. Reeves/K. Isham, AK Division of Homeland Security and Emergency Management) |
| 11:45-noon | Anticipating health risks: approaches to planning for future response to water system failure (T. Hennessy, CDC) |
| noon-1:00 P.M. | <i>Box lunch on site (30 minute lunchtime film: Our Changing Weather video by Maniilaq with introduction by community representative, unconfirmed)</i> |

Session 3: Breakout group assessment activity

1:00 – 2:30 P.M. Short presentation on initial efforts to summarize water- and wastewater-related infrastructure assets in rural Alaska (ANTHC, EPA and ADEC)

Breakout Group Tasks.

- 1) **GROUP A:** Develop an approach to inventory of water and sanitation infrastructure
 - a. Available data: What we have (and where it can be found/accessed) and what we need (note if it needs to be collected or exists but in an unknown site)
- 2) **GROUP B:** Develop a ranking or prioritization of at-risk infrastructure from this inventory
 - a. Ranking criteria scheme with weight applied to each criterion
 - i. (details to follow)

2:30 -3:00 P.M.: *Break*

3:00-4:00 P.M.: Breakout groups report out

4:00-5:00 P.M. Next steps: discussion of ways forward/planning for future drafting of the “action plans”, funding, etc.

5:00 P.M. *Adjourn*

Packet Contents:

- (Agenda)
- Participant list
- PDFs sent via email (these resources will be available, in print, to each breakout group as a reference)
 - On water security, sustainability, and the water-food-energy-climate nexus, Bruce et al. 2013
 - The Arctic Water Resource Vulnerability Index: an integrated assessment tool for community resilience and vulnerability with respect to freshwater, Kliskey et al, 2008
 - Summaries of water/climate-related legislation (USARC compilation)