

# GREENLAND SAFE WATER ACTION COAKLEY LANDFILL FACT SHEET

December 16, 2016

## Concern Started With a Seacoast Pediatric Cancer Cluster

- NH DHHS identified two pediatric cancer clusters in Seacoast 5-town area (RMS and PPB).
- The PPB and RMS cancer clusters are the only ones ever acknowledged in the State of New Hampshire. Some of these children have died.

## The Current PFC Standard Does Not Consider Prenatal and Infant Exposure

- In May, 2016, the USEPA standard was 600 parts per trillion (add PFOA + PFOS)
- 7 months later an EPA temporary, emergency rule of 70 ppt was implemented (NH).
- Why have at least three states much lower PFC standard than EPA or NH?
  - Vermont - 20 ppt
  - New Jersey – 40 ppt (proposed 14 ppt)
  - Pennsylvania – proposed 5 ppt
    - States based their lower PFC standards on studies that show impacts to mammary development, breastmilk and formula delivery to babies, i.e., the most vulnerable.

## Contaminated Groundwater Is Migrating Outside The GMZ

- Groundwater flows from Coakley in all directions into Greenland, Rye and North Hampton. (See Attachment B)
- PFC and 1,4-dioxane Contamination is migrating
  - PFCs exceed other state criteria in 4 private wells outside of the GMZ.
  - Highest PFC concentration outside of GMZ is 33.7 parts per trillion (ppt).
  - EPA states: “1,4-dioxane is migrating off-site” (See EPA Fourth 5-Year Review, September 2016).

## Contamination Is Discharging To Surface Water Outside The GMZ, Without Mitigation

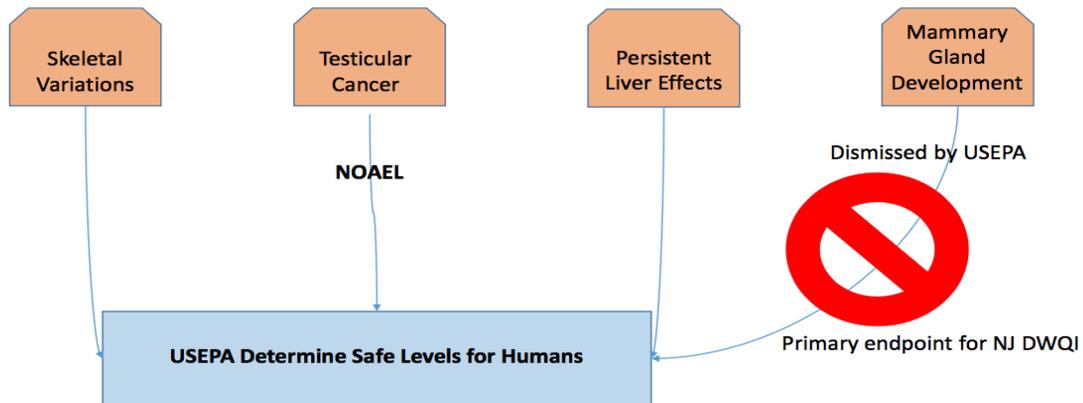
- PFCs were detected in surface water
  - Berry’s Brook at 194.9 ppt
  - Little River at 10.8 ppt.

## Our Case for Municipal Water For Residents Around Coakley

- Precedence for municipal water to prevent drinking contaminated water
  - In 1983, water was supplied to residents in North Hampton due to contamination
  - “Both EPA and NH DES expressed oral and written reservations about the “strong potential” for 10 bedrock wells installed in a proposed development on Breakfast Hill Road...”to cause groundwater contaminant migration from the [Coakley] Site to the proposed residential development.”
  - CLG agreed to pay \$200,000 to install municipal water sourced from Rye to the proposed 10-lot development on Breakfast Hill Road.
- Stone Meadow Way, less than 100 feet from this proposed development, is also at risk for drinking water contamination for pregnant women, children and adults.

# How did this advisory come about?

## Animal Study Endpoints



**Answer:**

EPA and NH Department of Environmental Services omitted the impacts to mammary gland development to get to the 70 parts per trillion (ppt) criteria versus NJ and VT which didn't and issued 40 ppt (14 newly proposed) and 20 ppt, respectively.