

Air Force Civil Engineer Center



Newington Town Meeting

26 September 2017

Battle Ready...Built Right!



Agenda

- **Welcome, Agenda Review and Introduction**
 - Ona Ferguson (Consensus Building Institute)
- **Participant Introductions**
- **Overview of PFOS/PFOA Situation at Pease**
 - Peter Forbes (Air Force Civil Engineer Center)
and Rob Singer (Amec Foster Wheeler)
- **Newington Activities in 2017**
 - Rob Singer (Amec Foster Wheeler) Presentation on activities relevant to Newington (sampling, mitigation, upcoming work)
- **Review of Key Questions**
 - What would participants and neighbors like to better understand?
- **Open Discussion**
 - Comments and questions
- **Adjourn**



Welcome, Agenda Review and Introduction

Ona Ferguson
(Consensus Building Institute)



Welcome, Agenda Review and Introduction

- **What are PFCs?**
- **Why are people worried about them?**
- **How might it affect you?**
- **What is going on at this site?**
- **What are key agencies doing?**



Welcome, Agenda Review and Introduction

- **Air Force is responding to PFOS and PFOA on a nationwide scale**
- **Current focus is on known and potential drinking water impacts because**
 - **USEPA has developed health advisories for these compounds in drinking water (70 ppt)**
 - **The advisories do not apply to groundwater that isn't used as a drinking water source, nor to animals or plants**



Overview of PFOS/PFOA Situation at Pease

Peter Forbes

(Air Force Civil Engineer Center)

&

Rob Singer

(Amec Foster Wheeler)



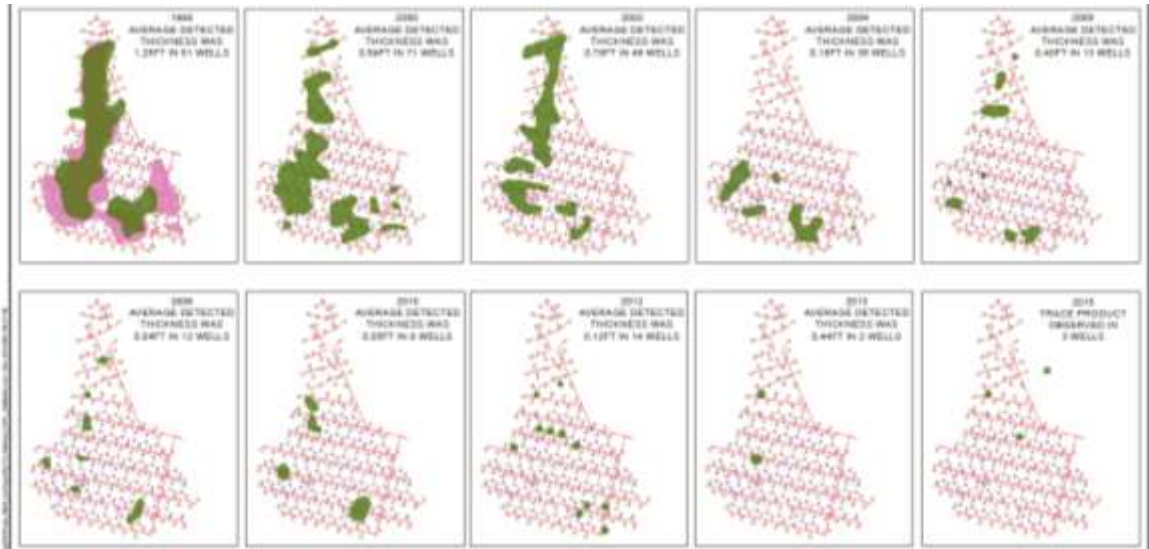
Fire Training Area History

- **Used from 1961 through 1988, AFFF introduced ca. 1970-1974**
- **Burned fuels and used water and fire fighting foam to extinguish the fires**
- **Fire training exercises resulted in fuel and solvent environmental contamination to soil, groundwater and springs**
 - **PFOS/PFOA were not considered contaminants of concern at that time.**
- **The Air Force began investigating and cleaning up fuel and solvents in soil, groundwater and springs in 1984**



Fire Training Area History

- Cleanup has been very successful - over 330,000 pounds of contamination removed



- SVE/AS systems were shut down in 2013 because objectives were met
- The Air Force was working on final “polishing” of this site when PFOS and PFOA were identified



PFOS/PFOA Response Chronology at Pease

- **Summer/Fall 2013 – Air Force samples groundwater at fire training area for PFOS and PFOA**
- **Spring 2014 – Air Force samples the Haven, Smith, and Harrison Wells (public water supply wells on Pease)**
- **May 2014 - Haven well is shut down and Air Fore begins routine sampling of the public water supply wells**
- **Since July 2014 – Multiple investigations to identify PFOS/PFOA sources at Pease and develop strategies for protecting drinking water**
- **May 2016 – USEPA issues a Lifetime Health Advisory (LHA) for PFOS and PFOA, NHDES issues Ambient Groundwater Quality Standards for PFOS and PFOA**

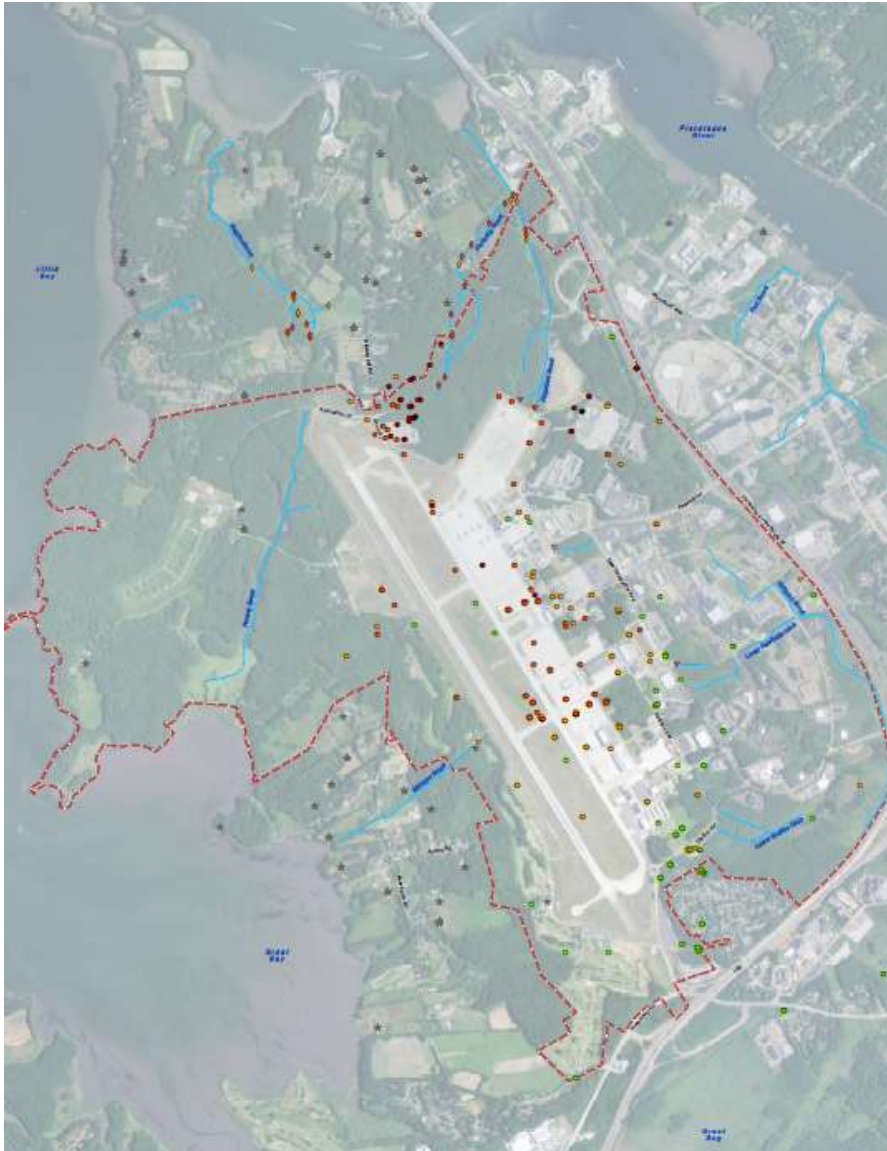


Newington PFOS/PFOA Response – Drinking Water

- **Since summer 2014 the Air Force has been identifying and sampling private drinking water wells in Newington to assess if private wells have PFOS/PFOA above the advisories**
 - **Door-to-door surveys**
 - **Multiple mailers**
 - **>740 properties surveyed**
 - **40 drinking water wells**
 - **4 locations above LHA**
 - **4 locations with Air Force installed carbon treatment**
 - **Quarterly monitoring ongoing by the Air Force**
- **Protecting homeowner privacy is paramount**



PFOS/PFOA Investigation at Pease



To date, the Air Force has invested more than \$25 million in PFOS/PFOA response at Pease

Private Drinking Water Wells:

- 12 with no PFOS/POFA detected
- 20 with low level PFOS+PFOA (3.6 ppt to 35 ppt)
- 1 with 67 ppt PFOS+PFOA
- 4 above the LHA (89 ppt to 870 ppt)
- 3 newly identified wells being sampled



Current PFOS/PFOA Status at Pease

- **Private drinking water wells in Newington and Greenland are being monitored regularly for PFOS and PFOA**
- **Private drinking water wells with PFOS/PFOA above the LHA are being treated and will be offered connection to the public water supply**
- **Public drinking water is being treated to a level as determined safe by USEPA**
- **The public water supply is being monitored regularly by the City**
- **The Air Force is working to prevent further impacts to drinking water supplies**



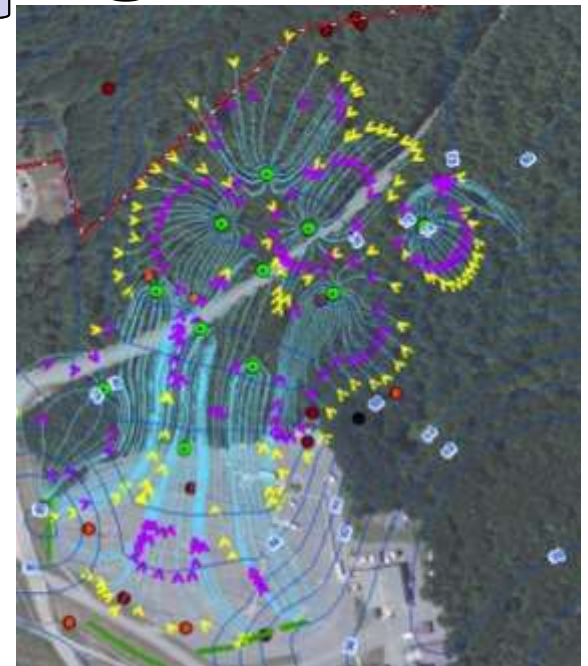
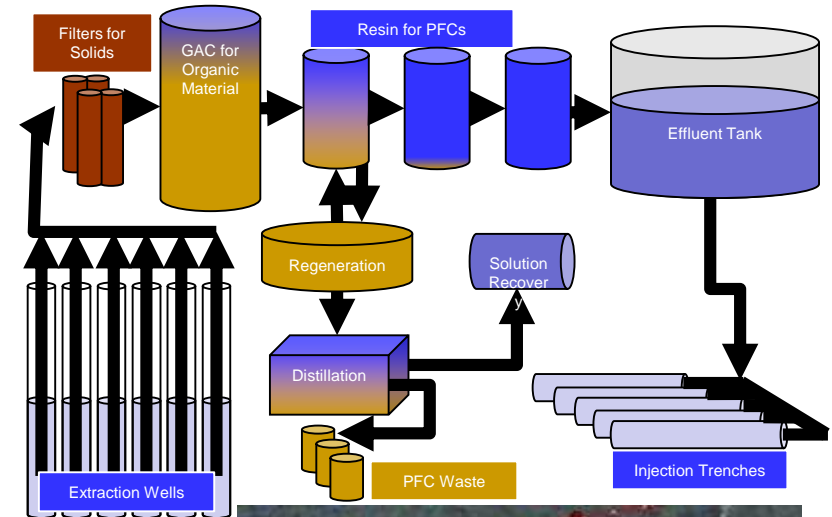
Fire Training Area Interim Mitigation System Update

- **System Facts**

- Design Flow: 200 gallons per minute
- Number of extraction wells: 10
- Treatment process: Particle filters, granular activated carbon, sorbent media, in place regeneration of media

- **Status**

- Construction is underway
- Minimal impacts to Town Forest
- Construction will be substantially complete by end of the year
- Startup in January/February





Newington Activities in 2017/18

- **Air Force is developing follow-on investigation plans across Pease and in Newington**
- **Current focus is on known and potential drinking water impacts because**
- **Future investigations will help us understand where the PFOS and PFOA are and where they are going, so that the appropriate measures can be put in place to continue long-term drinking water protection**



Review of Key Questions

- What would participants and neighbors like to better understand?



Resources for More Information

- Air Force Administrative Record:
<http://afcec.publicadmin-record.us.af.mil/Search.aspx>
- Air Force PFOS and PFOA Response (Nationwide)
<http://www.afcec.af.mil/WhatWeDo/Environment/Perfluorinated-Compounds/>
- US Environmental Protection Agency
<https://www.epa.gov/pfas>
- New Hampshire Department of Health and Human Services:
<https://www.dhhs.nh.gov/dphs/pfcs/index.htm>
- New Hampshire Department of Environmental Services:
<https://www4.des.state.nh.us/nh-pfas-investigation/>
- Agency for Toxic Substances and Disease Registry (ATSDR)
https://www.atsdr.cdc.gov/pfc/health_effects_pfcs.html
- Pease Community Assistance Panel
<https://www.atsdr.cdc.gov/sites/pease/cap.html>
- Pease Tradeport Water Supply Website
<https://www.cityofportsmouth.com/publicworks/water/pease-tradeport-wate>



Open Discussion

- Comments and questions



Adjournment

