Significant Information

- In 1970, the Air Force began using the firefighting agent Aqueous Film Forming Foam (AFFF) which contained PFOS and PFOA.
- AFFF is the most efficient extinguishing method for petroleum-based fires and is widely used across the firefighting industry, to include all commercial airports, to protect people and property.
- On May 19, 2016, the EPA established a lifetime health advisory (LHA) level of 70 parts per trillion for PFOS and/or PFOA in drinking water. The LHA is non-regulatory and not enforceable; however, under the Comprehensive Environmental Response, Compensation and Liability Act the Air Force uses it to determine an acceptable level of PFOS/PFOA in drinking water.

Perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) are synthetic fluorinated organic chemicals that were used in many industrial and consumer products such as nonstick cookware, stain-resistant fabric and carpet, some food packaging and specialized foam.

PFOS and PFOA are part of a family of synthetic fluorinated chemicals called per- and polyfluoroalkyl substances (PFAS). PFOS and PFOA are the only two compounds of this group with established Environmental Protection Agency health advisories for drinking water.

Air Force PFOS/PFOA Snapshot

Perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) are synthetic fluorinated organic chemicals that were used in many industrial and consumer products such as nonstick cookware, stain-resistant fabric and carpet, some food packaging and specialized foam.

PFOS and PFOA are part of a family of synthetic fluorinated chemicals called per- and polyfluoroalkyl substances (PFAS). PFOS and PFOA are the only two compounds of this group with established Environmental Protection Agency health advisories for drinking water.

**Air Force Drinking Water Response Actions:**
- Bottled water
- Point-of-use filtration
- Whole-house filtration
- Municipal water supply hookup

**PFOS/PFOA Actions to Date**

- **176/176** Installations transitioned to new C6 AFFF in stockpiles and fire trucks
- **$5.3M** Cost for ecologic system kits for fire vehicles
- **99%** Installations finished retrofitting vehicles with ecologic system kits
- **979,000** Gallons of legacy AFFF incinerated
- **$10.8M** Cost to date to replace and incinerate legacy AFFF in stockpiles and fire trucks

**Total Expenditure**

- **$447.5M**

**Identify**

- **203** Installations Require Preliminary Assessments (PAs)
  - **99%** of PAs Complete
  
**Respond**

- **189** Installations Expected to Require a Site Inspection (SIs)
  - **87%** of SIs Complete

**Prevent**

- **39** BRAC
- **89** Active/Reserve
- **75** ANG

*Estimated completion for last base, Joint Base Elmendorf-Richardson, Alaska, is Spring 2020.*
Installations Status Update

On-base Air Force Drinking Water Response Actions

Mountain Home AFB, ID: Two on-base drinking water wells above LHA; 1 filtration system installed; bottled water provided for second well

New Boston AFS, NH: One on-base drinking water well above LHA; filtration system installed

Wright-Patterson AFB, OH: Two wells above LHA, filtration system installed

Off-base Air Force Drinking Water Response Actions

Former Castle AFB, CA: Two resident wells above LHA, bottled water provided

Former K.I. Sawyer AFB, MI: One residential well above LHA; filtration system provided

Former March AFB, CA: One public well above LHA; shut off, cooperative agreement in place. 2 residential wells above LHA; connected to municipal water supply

Former Pease AFB, NH: Two municipal wells above LHA; filtration system installed. Remaining provide bottled water

Former Mather AFB, CA: One municipal well above LHA; Air Force to fund operation and maintenance of treatment system

Former Pease AFB, NH: Two municipal wells above LHA; 1 shut off, on line with treatment system, cooperative agreements in place. 5 residential wells above LHA, filtration systems installed at 4 residences, 1 residence provided bottled water

Former Plattsburgh AFB, NY: Four residential wells above LHA; 3 filtration systems provided, 1 residence provided bottled water

Former Reese AFB, TX: 231 residential wells and 3 municipal wells above the LHA and/or Texas Commission on Environmental Quality Tier 1 Residential Protective Concentration Limits; 212 filtration systems installed, remaining provided bottled water

Former Wurtsmith AFB, MI: One residential well above LHA; connected to municipal water supply

Former K.I. Sawyer AFB, MI: One residential well above LHA; filtration system provided

Former March AFB, CA: One public well above LHA; shut off, cooperative agreement in place. 2 residential wells above LHA; connected to municipal water supply

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Former Mather AFB, CA: One municipal well above LHA; Air Force to fund operation and maintenance of treatment system

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Former Mather AFB, CA: One municipal well above LHA; Air Force to fund operation and maintenance of treatment system

Former Pease AFB, NH: Two municipal wells above LHA; filtration system installed

Non-drinking Water Response Actions

Burlington ANG, VT
Stewart ANG, NY
Former Chanute AFB, IL
Former March AFB, CA
Former Mather AFB, CA
Former Pease AFB, NH
Former Wurtsmith AFB, MI

Other Drinking Water Response Actions

Barnes ANGB, MA: Two municipal wells above LHA; wells taken offline. Three private wells above LHA for which state is providing alternate water source

Harrisburg IAP, PA: Municipal supplier delivered water with elevated PFOS in 2014; the supplier responded to the problem and conducted periodic monitoring. The current wells utilized and drinking water are currently below the LHA

Joe Foss Field, SD: 10 municipal wells above LHA; alternate water supply provided by other municipal wells

Martinsburg ANG, WV: One municipal well above LHA. GAC system installed by city and functioning starting in December 2017

New Castle ANG, DE: 14 municipal wells above LHA; all have carbon treatment installed

Stewart ANG, NY: City of Newburgh drinking water reservoir above LHA; alternate water provided through New York State aqueduct. State-funded public drinking water system for Newburgh construction is complete but not operating

JB McGuire-Dix-Lakehurst, NJ: Two on-base backup wells above LHA; filtration system installed; new deep well and treatment building under design as permanent solution. 6 off-base wells above LHA; 3 filtration systems installed, 3 properties provided bottled water. Installing connection to municipal water as permanent solution

Eielson AFB, AK: GAC system installed at on-base water treatment plant. 170 off-base private wells above LHA; 165 water systems installed, 5 residences provided bottled water. AF signed interim ROD. $43.1M cooperative agreement signed with City of North Pole to connect residents to municipal water. Construction to begin spring 2020

JB Cape Cod, MA: One municipal well above LHA; taken offline, wellhead treatment under construction. 3 residential wells above LHA, 1 receiving bottled water; 9 filtration systems installed; 108 municipal water connections complete

Gabreski ANGB, NY: County wells above LHA; 1 residential well above LHA; drinking water provided from the city to the residence

Toledo ANG, OH: One off-base residential well above LHA. Residence connected to municipal water supply; well closed

Cannon AFB, NM: Three off-base drinking water sources above LHA; bottled water provided

Dover AFB, DE: Five off-base residential wells above LHA; filtration system installed at 1 residence, bottled water provided to remaining 4 locations

Ellsworth AFB, SD: 23 off-base residential wells serving 94 residences above LHA; 2 residences connected to base water supply, 2 residences connected to city water; filtration system installed at 17 residences, 73 residences provided bottled water

Fairchild AFB, WA: Two municipal wells above LHA; filtration system installed. 90 off-base residential wells above LHA; 84 filtration systems installed, remaining provided bottled water

Luke AFB, AZ: One off-base residential well above LHA; bottle water provided

Peterson AFB, CO: 42 municipal wells above LHA; wells taken offline, 10 back on line with treatment systems. 6 off-base locations provided bottled water; 21 private wells above LHA; 27 residences provided filtration systems; 1 location connected to municipal water supply; 1 ion exchange system installed at a mobile home park

Both On-base and Off-base Air Force Drinking Water Response Actions

Horsham ANG, PA: Under Administrative Order. 2 on-base drinking water wells above LHA; temporary carbon filtration installed and bottled water provided. 61 off-base private wells and 5 municipal wells above LHA. Currently providing alternate water sources to surrounding townships while carbon filtration systems are constructed

Eielson AFB, AK: GAC system installed at on-base water treatment plant. 170 off-base private wells above LHA; 165 water systems installed, 5 residences provided bottled water. AF signed interim ROD. $43.1M cooperative agreement signed with City of North Pole to connect residents to municipal water. Construction to begin spring 2020

JB McGuire-Dix-Lakehurst, NJ: Two on-base backup wells above LHA; filtration system installed; new deep well and treatment building under design as permanent solution. 6 off-base wells above LHA; 3 filtration systems installed, 3 properties provided bottled water. Installing connection to municipal water as permanent solution

Current as of 7 November 2019