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.

Significant Information

- In 1970, the Air Force began using the firefighting agent Aqueous Film Forming Foam (AFF) which contained PFOS and PFOA.
- AFF 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.

**IDENTIFY**

203 Installations Require Preliminary Assessments (PAs)

99% of PAs Complete

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

39 BRAC

89 Active/Reserve

75 ANG

30 BRAC

84 Active/Reserve

75 ANG

of those 203, 189 Installations Expected to Require a Site Inspection (SIs)

88% of SIs Complete

**RESPOND**

Air Force Drinking Water Response Actions:

- Bottled water
- Point-of-use filtration
- Whole-house filtration
- Municipal water supply hookup

**PREVENT**

176/176 Installations transitioned to new C6 AFF 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 AFF incinerated

$10.8M Cost to date to replace and incinerate legacy AFF in stockpiles and fire trucks

$447.5M Total expenditure PFOS/PFOA investigations | response actions | prevention

Current as of 26 November 2019
## 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 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, 1 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 Protective Concentration Limits; 213 filtration systems installed, remaining provided bottled water

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

**JB Cape Cod, MA:** One municipal well above LHA; taken offline, wellhead treatment under construction. 2 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; ANG providing bottled water 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

### 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

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

**Harrisburg JAP, 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

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

**Stewart AFB, NJ:** 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

**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

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

### 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**

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