

Per- and polyfluoroalkyl substances (PFAS) are a large class of chemicals found in many consumer products, as well as in industrial products such as certain firefighting agents called aqueous film forming foam (AFFF). In the 1970's, the Department of Defense (DoD) began using AFFF, which is the most efficient extinguishing method for petroleum-based fires and is widely used across the firefighting industry, to protect people and property. Under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the Department of the Air Force (DAF) has identified locations where PFAS releases off-base have impacted drinking water. DAF remains committed to fulfilling our PFAS-related cleanup responsibilities and is taking necessary actions to incorporate the EPA's final regulatory standard for certain PFAS under the Safe Drinking Water Act into the current cleanup process.

IDENTIFY & INVESTIGATE

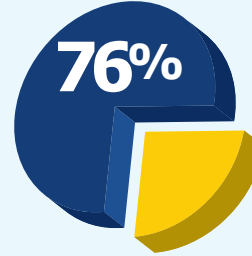
100%

**Preliminary Assessments (PAs) 204/204
and Site Inspections (SIs) 191/191***

BRAC: 39 PAs; 30 SIs

Active/Reserve: 90 PAs; 86 SIs

ANG: 75 PAs; 75 SIs



**Remedial Investigations (RIs)
in progress (146/192)***

BRAC: 22 OF 31 RIs

Active/Reserve: 84 OF 86 RIs

ANG: 40 OF 75 RIs

* PA and SI focused on AFFF-sources; DAF is currently evaluating potential release of PFAS from non-AFFF sources, and if release is confirmed, will include in future RIs

Of the 204 locations, 12 did not have PFAS releases above screening levels; one BRAC location (Former Homestead AFB) did not have SI, and RI was initiated following PA based on sampling done during property leasing

RESPOND

CERCLA DRINKING WATER RESPONSES

37 Installations

Private Drinking Water Wells

- Bottled water • Point-of-use filtration
- Whole-house filtration • New well installation
- Municipal Water Supply hookup

14 Installations

Public Drinking Water Systems

Funded public water purveyors to:

- Install filtration systems
- Perform operation & maintenance

25 Installations (39 projects)

Interim Response Actions

- Installation of groundwater extraction and/or treatment systems
- Removal of PFAS impacted soils
- Retrofit of legacy groundwater treatment systems to treat PFAS
- 5 additional projects planned at 4 other installations



PREVENT

100%

539 hangars, 23 GOCO facilities transitioned from legacy AFFF to C6 AFFF in stockpiles and fire trucks since 2017

PAST ACTIONS

\$10.8M

Cost to date to replace and dispose of legacy AFFF in stockpiles and fire trucks

979,000

Total gallons of legacy AFFF disposed thus far

CURRENT ACTIONS

100%

DAF-operated AFFF hangars locked out/tagged out (539/539) since Apr 2023*; AFFF removal contracts awarded for all facilities

\$12.4M

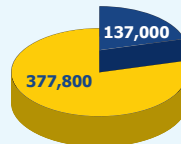
AFFF replacement with fluorine-free foam (F3) completed for all (23/23) GOCOs; two presidential airlift hangars are in progress

In-Progress**

AFFF replacement with F3 in remaining hangars and vehicles

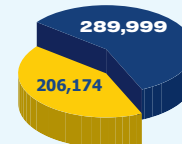
137,000

Gallons of AFFF concentrate in facilities disposed; 377,800 total gallons remaining



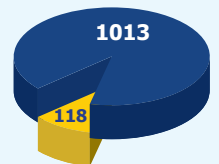
289,999

Gallons of AFFF concentrate in fire vehicles/storage disposed; 206,174 total gallons remaining



1013

Fire vehicles converted to F3; 118 vehicles remaining



\$2.33 Billion Total Force expenditures*** PFAS actions to date

*Does not include hangars at Government Owned Contractor Operated (GOCO) Air Force Plants. Two presidential airlift hangars in service will have F3 by FY25.

**DoD granted a one-year extension for the change out of foam. DAF will meet the new suspense of 1 Oct 2025 for all facilities and vehicles.

***Expenditures as of March 2025

INNOVATIVE TECHNOLOGIES

DAF is currently hosting **43** technology demonstration projects at **19** installations to collaborate with DoD in developing and field testing innovative technologies to treat or destroy PFAS in soil, water and AFFF concentrate

DoD has invested over **\$300M** to-date, to advance technologies to expedite PFAS cleanup and test and develop Fluorine Free Foam (<https://serdp-estcp.mil/>)

DAF funds innovative technologies through the "Broad Agency Announcement (BAA)" and Air Force Research Lab contracts to demonstrate and validate technologies for DAF-specific needs

Installations Status Update*

Active/Reserve Installations

AFP 44: 1 NTCRA EE/CA with GW treatment

Cannon AFB, NM: 2 off-base private drinking water wells impacted; one has 3 FSI and one other property owner declined; NTCRA to mitigate GW migration in Southeast Corner started operation Apr '25, and in North Playa treatment design underway

Davis-Monthan AFB, AZ: No off-base private drinking water wells impacted: 3 public water wells taken offline; Environmental Services Agreement with state regulator for off-base pilot filter system plant O&M, NTCRA EE/CA at base boundary for impacted GW migration

Dover AFB, DE: 9 off-base private drinking water wells impacted: 9 FSI

Eielson AFB, AK: 169 private drinking water wells impacted: 156 connected to municipal water; 10 FSI; 2 BWP; 1 declined. GAC system installed at an on-base water treatment plant

Ellsworth AFB, SD: 25 off-base private drinking water wells impacted: 4 municipal connections, 18 FSI, 2 BW, 1 pending response action

Fairchild AFB, WA: 107 off-base private drinking water wells impacted: 4 municipal connections; 93 FSI; 7 BWP; 3 wells not in use; 2 municipal wells impacted (1 well inactive) and an Environmental Services Agreement with City of Airway Heights for reimbursing drinking water impacts due to PFAS in supply wells. NTCRA include a GW pump and treat system pilot study at FT004

Goodfellow AFB, TX: 33 off-base private drinking water wells impacted: 8 residents connected to municipal source, FSI at 23 off-base wells, 1 BWP until owner brings water well up to code 1 property has no residents. NTCRA with GW pilot study at base boundary to control PFAS migration off base

Homestead ARB, FL: 6 off-base private drinking water wells impacted; FSI at 3 locations; BWP at 2 locations; 1 well not used for drinking water

Hurlburt Field, FL: 1 off-base private drinking water well impacted; homeowner declined.

JBER-Fort Yukon LRRS, AK: No off-base impacts. 1 on-base well impacted: FSI

JB McGuire-Dix-Lakehurst, NJ: 6 off-base private drinking water wells impacted: 4 connected to municipal water, 1 FSI, 1 BWP.

JBSA Randolph, TX: 4 off-base private drinking water wells impacted: FSI at 3 wells and 1 BWP. NTCRA includes pilot study to build a slurry wall and treatment system at base boundary

Little Rock AFB, AR: 5 off-base private drinking water wells impacted: 3 of the 5 on FSI and 2 BWP

Luke AFB, AZ: 3 off-base private drinking water wells impacted: all connected to municipal water. 3 public utility wells impacted and FSI. 2 NTCRA includes an ion-exchange system installed and ongoing treatability study at Valley Utilities, and feasibility study for PTS upgradient of impacted municipal and private wells

McConnell AFB, KS: 3 off-base private drinking wells impacted; 1 location connected to municipal water supply; 2 BWP pending longer term solution

Mountain Home AFB, ID: No impacts to off-base drinking water wells. 2 on-base drinking water wells impacted: one well replaced by non-impacted well; second well decommissioned and facility connected to base drinking water system. Base operates 3 other drinking water wells located in non PFAS impacted areas

New Boston SFS, NH: No off-base private drinking water well impacted. FSI for 1 building using impacted GW source

Peterson SFB, CO: 32 off-base private drinking water wells impacted: 3 municipal hookups, 25 residential wells with FSI, and BWP at one 1 location, 1 pending response action, 2 FSI at mobile home parks; 38 municipal wells FSI. NTCRA includes treatment of PFAS in SW and sediments in Pond 3

Scott AFB, IL: 1 off-base private drinking water well impacted: FSI

Shaw AFB, SC: 62 impacted private drinking water wells: 31 municipal connections, 23 BWP, 6 properties declined, and 2 properties unoccupied. ECD for IRA July '25; 3 mobile home parks pending municipal connection

Tinker AFB, OK: 7 off-base private drinking water wells impacted: 2 FSI, 5 municipal connections. NTCRA with SW and GW pilot study at base boundary

Travis AFB, CA: 3 off-base private drinking water wells impacted: FSI at all 3 locations;

Wright-Patterson AFB, OH: No private drinking water wells impacted. 2 on-base wells impacted, GAC system installed. Implementing 3 NTCRA for 5 AFFF sites to treat PFAS-impacted GW and SW

Former Castle AFB, CA: 3 private wells impacted, FSI at 3. 2 existing groundwater treatment systems with GAC.

BRAC Installations

Former Chanute AFB, IL: IRA to treat discharge from former landfill leachate

Former George AFB, CA: 1 private well impacted; FSI

Former K.I. Sawyer AFB, MI: 1 private well impacted; FSI

Former March AFB, CA: 2 private wells impacted; connected to public water supply; 1 public well impacted and carbon treatment system on-line, cooperative agreement in place. TCRA includes addition of GAC to existing treatment systems

Former Mather AFB, CA: 2 private drinking water wells impacted: BWP for both. 2 public wells impacted; 2 existing groundwater treatment systems with GAC

Former Pease AFB, NH: 5 private drinking water wells impacted: 2 connected to public water supply, 2 FSI, and 1 well shutdown. Also, 7 private drinking water wells above NH MCLs: 3 connected to public water, 1 DAF-FSI, 2 private FSI, 1 BWP by NH. 2 public wells impacted: both carbon treatment systems online, cooperative agreement in place for O&M. IRA for 2 GW treatment systems

Former Plattsburgh AFB, NY: 4 private drinking water wells impacted: 3 FSI, 1 BWP. 3 private wells above NY levels, and State of NY has FSI for these 3 wells

Former Reese AFB, TX: 276 private drinking water wells impacted: 1 municipal connection, 266 FSI, 1 BWP and 8 wells not used for drinking water. IRA includes treatment systems to control migration of PFAS from Picnic Lake

Former Wurtsmith AFB, MI: 1 private drinking water well impacted: connected to public water supply. 8 interim response actions: GW treatment at former FTA (NTCRA), Central Treatment System (TCRA), Mission System retrofits to remove PFAS (NTCRA), former FTA expansion of GW treatment system near Clark's Marsh (IRA), Van Etten Lake GW treatment (IRA), Alert Aircraft Area GW treatment (IRA), Defense Reutilization and Marketing Office and Landfill 030/031 (combined IRA), soil removal at former FTA (TCRA). 3 interim response actions pending contract award: 3 Pipes Ditch (NTCRA), 3 Pipes Ditch Source Area (IRA), Wastewater Treatment Plant (IRA)

ANG Installations

Barnes ANGB, MA: No impacts to off-base private drinking water wells. 2 municipal wells impacted; treatment system online and cost reimbursed to city

Biddle ANGB (Formerly Horsham), PA: 68 off-base private drinking water wells impacted: 67 connected to municipal water; one well removed

Burlington ANGB, VT: TCRA for GW pilot study

Gabreski ANGB, NY: 2 municipal wells impacted, FSI on both; all off-base private drinking water wells connected to municipal water. Cost reimbursement to Suffolk Water Authority

McEntire ANGB, SC: 3 off-base private drinking water wells impacted, FSI

Montana ANGB, MT: 1 off-base private drinking water well impacted, FSI

Morris ANGB, AZ: 3 off-base private drinking water wells impacted, all connected to municipal water. NTCRA includes studies to convert existing pump & treat systems to treat PFAS and reduce migration of PFAS

Otis ANGB (JB Cape Cod), MA: 20 off-base private drinking water wells impacted: 19 municipal connections completed. 1 home owner declined.

Selfridge ANGB, MI: 2 IRAs for SW treatment to resolve a notice of violation to meet state SW standard and NTCRA for soil removal

Shepherd Field (Martinsburg) ANGB, WV: 1 municipal well impacted. GAC system installed and functioning since December '17, and cost reimbursed to City of Martinsburg to install a GAC treatment system

Stewart ANGB, NY: IRA SW treatment

Toledo ANGB, OH: 2 off-base private drinking water wells impacted: 1 residence connected to municipal water supply, 1 BWP

Key

BWP – Bottled Water Provided

ECD – Estimated Completion Date

EE/CA – Engineering Evaluation/Cost Analysis

FSI – Filtration System Installed

FTA – Fire Training Area

GAC – Granular Activated Carbon

GW – Groundwater

IRA – Interim Remedial Action

MCL – Maximum Contaminant Levels

NTCRA – Non-time Critical Removal Action

O&M – Operations & Maintenance

OSD – Office of the Secretary of Defense

PPT – Parts Per Trillion

PTS – Pump-and-Treat System

SW – Surface water

TCRA – Time Critical Removal Action

Air Force Installation and Mission Support Center Public Affairs

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*Data based on previous DoD action level of 70 ppt for PFOA and PFOS. The Air Force is evaluating existing data against recent MCLs issued by the EPA.