

UNCLASSIFIED



Per- and Polyfluoroalkyl Substances in Groundwater

Briefing for the Committees on Armed Services of the Senate and the House of Representatives pursuant to Senate Report 117-130, page 128, accompanying the National Defense Authorization Act for FY 2023

September 2023

The estimated cost of this report or study for the Department of Defense is approximately \$3,470 for the 2023 Fiscal Year. This includes \$1,800 in expenses and \$1,670 in DoD labor.

Generated on 2023 Aug 15 RefID: 5-2481C08

UNCLASSIFIED

Purpose

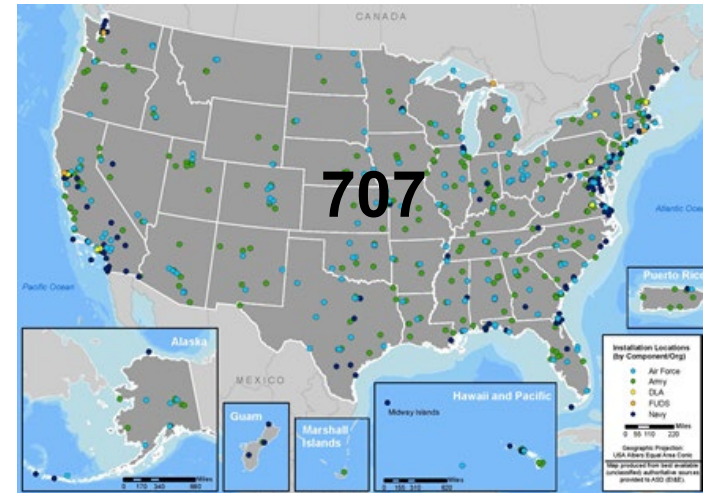


- Senate Report 117-130, page 128, accompanying the National Defense Authorization Act for FY 2023, requested the Secretary of Defense to provide a briefing on the status of remedial investigations (RIs) related to the release of per- and polyfluoroalkyl substances (PFAS) in the proximity of groundwater aquifers that serve as a primary or secondary source of drinking water in the United States, which are at or adjacent to military installations, facilities of the National Guard, or Formerly Used Defense Sites (FUDS), including communities within an aquifer designated as a sole source aquifer by the Administrator of the U.S. Environmental Protection Agency (EPA) under section 1424(e) of the Safe Drinking Water Act (SDWA) (42 U.S. Code [U.S.C.] 300h-3(e))



PFAS Cleanup Status

- DoD is committed to cleaning up our PFAS releases as quickly as possible. DoD follows the Federal cleanup law – the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).
- As of March 31, 2023, DoD is conducting PA/SIs for the use or potential release of PFAS at 707 DoD installations and National Guard facilities.



Removal Actions (Short-Term)

PA/SI

Preliminary
Assessment/Site
Inspection

RI/FS

Remedial Investigation
/Feasibility Study

RD/
RA-C

Remedial Design/
Remedial Action-
Construction

RA-O

Remedial Action-
Operations

LTM

Long-Term
Management



PFAS Cleanup Status

- DoD has completed PA/SIs at 425 DoD installations and National Guard Facilities.
- DoD has initiated RIs at 275 DoD installations and National Guard Facilities.
 - 245 of the 275 locations are estimated to be in the proximity of groundwater aquifers that serve as a primary or secondary source of drinking water including communities within an aquifer designated as a sole source aquifer by the Administrator of the U.S. Environmental Protection Agency (EPA) under section 1424(e) of the Safe Drinking Water Act (SDWA) (42 U.S. Code [U.S.C.] 300h-3(e)).



UNCLASSIFIED

DoD RI Status Summary Using EPA Drinking Water Source Information*

DoD Component	Number of Installations Where the RI is Underway	Number of Installations Where the RI is Planned
Army	87	88
Navy	61	33
Air Force	94	68
Defense Logistics Agency	1	4
FUDS	2	1
Total	245	194

* This table provides a summary of the status of PFAS RIs at military installations, National Guard facilities, and FUDS properties that are in the proximity of groundwater aquifers that serve as a primary or secondary source of drinking water in the United States, including communities within an aquifer designated as a sole source aquifer by the EPA Administrator under section 1424(e) of the SDWA. The accompanying spreadsheet provides the status of PFAS RIs by military installation, National Guard facility, and FUDS property. The data is as of March 31, 2023.

UNCLASSIFIED



Conclusion

- DoD is committed to mitigating PFAS in the drinking water it supplies, as well as addressing releases to the environment resulting from DoD activities.
- The Department has responded quickly with short-and long-term actions to ensure that no one is drinking water with PFOS or PFOA above 70 ppt.
- The Department is preparing to implement EPA's national drinking water standard, once final.
- DoD has made significant progress and continues to address the effects of PFAS releases to protect the health of its Service Members, their families, the DoD civilian workforce, and the communities in which DoD serves.



References

- The Department used EPA Drinking Water Mapping Application to Protect Source Water (<https://geopub.epa.gov/DWWidgetApp/>) to determine which DoD installations or National Guard Facilities were at or adjacent to primary and secondary drinking water sources.
 - The applicable layers used:
 - Drinking Water Intakes per HUC-12: This map service/dataset provides the number of drinking water system surface water source facilities for each HUC-12. Drinking water system source facility location data were obtained from the Safe Drinking Water Information System/Federal Version (SDWIS/FED) and indexed to HUC-12 units in the NHDPlus version 2.1 National Watershed Boundary Dataset snapshot (Feb 2012). HUC 12 source facility counts include active surface water facilities (i.e., intakes, reservoirs, infiltration galleries, and springs) with valid locations.
 - Drinking Water Wells per HUC-12: This map service/dataset provides the number of drinking water system groundwater source facilities for each HUC-12. Drinking water system source facility location data were obtained from the SDWIS/FED and indexed to HUC-12 units in the NHDPlus version 2.1 National Watershed Boundary Dataset snapshot (Feb 2012). HUC-12 source facility counts include active ground water facilities (i.e., wells) with valid locations.
 - Sole Source Aquifers (SSAs): This dataset includes all available SSA coverages.
 - 2010 US Estimated Private Domestic Wells: This map provides estimated private domestic wells for the United States by Census block and block group.

Per- and Polyfluoroalkyl Substances in Groundwater: Remedial Investigation Status by Military Installation, National Guard Facility, and Formerly Used Defense Sites Property

DoD Component	State/Territory	Installation Type	Installation Name	Remedial Investigation Status
Army	Alabama	National Guard	AASF #1 R W Shepherd Hope Hull	Planned
Army	Alabama	National Guard	AASF #3 Bates Field Mobile	Planned
Army	Alabama	Active	Anniston Army Depot	Underway
Army	Alabama	Active	Fort Rucker	Underway
Army	Alabama	Active	Redstone Arsenal	Underway
Army	Alaska	National Guard	Bethel AAOF	Planned
Army	Alaska	National Guard	Bryant Airfield- JBER	Planned
Army	Alaska	Active	Fort Greely	Underway
Army	Alaska	Active	Fort Wainwright	Underway
Army	Alaska	Active	Fort Wainwright - Haines Pipeline Facilities	Planned
Army	Alaska	National Guard	Nome AAOF	Planned
Army	Arizona	National Guard	Camp Navajo	Planned
Army	Arizona	Active	Fort Huachuca	Planned
Army	Arizona	National Guard	Papago Military Reservation	Underway
Army	Arizona	National Guard	Silver Bell Army Heliport	Underway
Army	Arizona	Active	Yuma Proving Ground	Underway
Army	Arkansas	Active	Pine Bluff Arsenal	Planned
Army	California	National Guard	Camp Roberts	Planned
Army	California	National Guard	Camp San Luis Obispo	Planned
Army	California	Active	Fort Hunter Liggett	Underway
Army	California	Active	Fort Hunter Liggett - Parks Reserve Forces Training Area	Underway
Army	California	Active	Fort Irwin	Planned
Army	California	BRAC	Fort Ord	Planned
Army	California	National Guard	JFTB Los Alamitos	Underway
Army	California	Active	Military Ocean Terminal Concord	Underway
Army	California	National Guard	NG Sacramento Mather (AASF)	Planned
Army	California	Active	Presidio of Monterey - Sharpe Army Depot	Underway
Army	California	BRAC	Riverbank Army Ammunition Plant	Planned
Army	California	National Guard	Roseville Armory	Underway
Army	California	Active	Sierra Army Depot	Underway
Army	California	BRAC	Sierra Army Depot BRAC	Planned
Army	California	National Guard	Stockton AASF	Underway
Army	Colorado	National Guard	Buckley Air Force Base AASF	Planned
Army	Colorado	Active	Fort Carson	Underway
Army	Connecticut	National Guard	Groton AVCRAD and TASMG Hangar 2	Planned
Army	Connecticut	National Guard	Windsor Locks AASF	Underway

Per- and Polyfluoroalkyl Substances in Groundwater: Remedial Investigation Status by Military Installation, National Guard Facility, and Formerly Used Defense Sites Property

DoD Component	State/Territory	Installation Type	Installation Name	Remedial Investigation Status
Army	Florida	National Guard	Brooksville RC, AASF #2	Planned
Army	Florida	National Guard	Camp Blanding	Planned
Army	Georgia	Active	Fort Benning	Underway
Army	Georgia	Active	Fort Benning - Camp Merrill	Planned
Army	Georgia	Active	Fort Gordon	Underway
Army	Georgia	Active	Fort Gordon - Gillem Annex	Underway
Army	Georgia	Active	Fort Stewart	Underway
Army	Georgia	Active	Fort Stewart - Hunter AAF	Underway
Army	Georgia	National Guard	Winder Barrow County Airport (enclave)	Underway
Army	Hawaii	National Guard	Kalaoloa Facility (Former Barbers Point-NAS)	Planned
Army	Hawaii	National Guard	Waiawa Unit Training Equipment Site (UTES)	Planned
Army	Idaho	National Guard	Gowen Field Boise/Airport Training Area	Planned
Army	Illinois	National Guard	Chicago (Midway Armory, AASF #2)	Planned
Army	Illinois	National Guard	Decatur AASF #1	Planned
Army	Illinois	National Guard	Peoria AASF #3 and AASF #4	Planned
Army	Illinois	Active	Rock Island Arsenal	Planned
Army	Illinois	BRAC	Savanna Army Depot	Underway
Army	Indiana	National Guard	Camp Atterbury/Range 36 ATG	Planned
Army	Indiana	BRAC	Fort Benjamin Harrison	Planned
Army	Indiana	National Guard	Muscatatuck Urban Training Center	Planned
Army	Indiana	BRAC	Newport Chemical Depot	Planned
Army	Indiana	National Guard	Shelbyville AASF	Underway
Army	Iowa	National Guard	Boone AASF	Planned
Army	Iowa	National Guard	Camp Dodge Johnston Training Site	Planned
Army	Iowa	National Guard	Davenport AASF	Underway
Army	Iowa	Active	Iowa Army Ammunition Plant	Underway
Army	Kansas	Active	Fort Leavenworth	Underway
Army	Kansas	Active	Fort Riley	Underway
Army	Kansas	National Guard	Salina AASF #2	Planned
Army	Kentucky	Active	Blue Grass Army Depot	Underway
Army	Kentucky	BRAC	Bluegrass Army Depot BRAC	Planned
Army	Kentucky	National Guard	Boone National Guard Center - AASF	Underway
Army	Kentucky	Active	Fort Campbell	Underway
Army	Kentucky	Active	Fort Knox	Underway
Army	Kentucky	National Guard	W.H. Ford Regional Training Center	Planned
Army	Louisiana	National Guard	Camp Beauregard	Planned

Per- and Polyfluoroalkyl Substances in Groundwater: Remedial Investigation Status by Military Installation, National Guard Facility, and Formerly Used Defense Sites Property

DoD Component	State/Territory	Installation Type	Installation Name	Remedial Investigation Status
Army	Louisiana	National Guard	Esler Field AASF #2	Planned
Army	Louisiana	Active	Fort Polk	Underway
Army	Louisiana	National Guard	Hammond AASF #1	Planned
Army	Maine	National Guard	Bangor Training Site	Planned
Army	Maryland	Active	Aberdeen Proving Ground	Underway
Army	Maryland	Active	Fort Detrick	Underway
Army	Maryland	Active	Fort Meade	Underway
Army	Maryland	BRAC	Fort Meade	Underway
Army	Massachusetts	BRAC	Devens	Underway
Army	Massachusetts	BRAC	Sudbury	Underway
Army	Michigan	National Guard	Grand Ledge AASF	Underway
Army	Michigan	National Guard	Lansing Airport Hangar	Planned
Army	Michigan	National Guard	MTC-H Camp Grayling Airfield (installation-wide PAI)	Underway
Army	Michigan	National Guard	MTC-H Camp Grayling-Cantonment	Underway
Army	Michigan	National Guard	MTC-H Camp Grayling-MATES	Planned
Army	Minnesota	National Guard	Camp Ripley (all AOIs)	Planned
Army	Minnesota	National Guard	Camp Ripley (Installation Wide PA) (Western AOI SI)	Planned
Army	Minnesota	National Guard	Holman Field AASF	Planned
Army	Mississippi	National Guard	AASF Meridian	Planned
Army	Mississippi	National Guard	Camp McCain	Planned
Army	Mississippi	National Guard	Camp Shelby	Planned
Army	Mississippi	National Guard	TASMG Gulfport	Planned
Army	Missouri	Active	Fort Leonard Wood	Underway
Army	Missouri	National Guard	Jefferson City AASF/Armory	Planned
Army	Missouri	Active	Lake City Ammunition Plant	Underway
Army	Missouri	National Guard	Springfield AVCRAD	Planned
Army	Montana	National Guard	Fort William Henry Harrison /JFHQ MT	Underway
Army	Montana	National Guard	Helena Aviation Readiness Center - AASF	Underway
Army	Nebraska	National Guard	Grand Island AASF/RC	Planned
Army	Nebraska	National Guard	Lincoln AASF/Readiness Center	Planned
Army	Nevada	Active	Hawthorne Army Depot	Underway
Army	Nevada	National Guard	Reno AASF	Planned
Army	New Hampshire	National Guard	AASF Concord	Planned
Army	New Hampshire	National Guard	Stafford TS - New Hampshire TS	Planned
Army	New Hampshire	National Guard	State Military Reservation	Planned
Army	New Jersey	National Guard	AASF Main Hangar-cold storage	Planned

Per- and Polyfluoroalkyl Substances in Groundwater: Remedial Investigation Status by Military Installation, National Guard Facility, and Formerly Used Defense Sites Property

DoD Component	State/Territory	Installation Type	Installation Name	Remedial Investigation Status
Army	New Jersey	Active	Picatinny Arsenal	Underway
Army	New Mexico	National Guard	Santa Fe AASF	Planned
Army	New Mexico	Active	White Sands Missile Range	Planned
Army	New York	National Guard	Albany AASF #3/DMNA HQ /FMS #16	Planned
Army	New York	National Guard	Camp Smith/CSMS A	Underway
Army	New York	Active	Fort Drum	Underway
Army	New York	BRAC	Seneca Army Ammunition Plant	Underway
Army	New York	Active	West Point	Underway
Army	North Carolina	Active	Fort Bragg	Underway
Army	North Carolina	Active	Military Ocean Terminal Sunny Point	Underway
Army	North Carolina	National Guard	Morrisville AASF #1	Planned
Army	North Carolina	National Guard	Salisbury AASF #2	Underway
Army	North Dakota	National Guard	Bismarck AASF Complex	Underway
Army	Ohio	National Guard	Green Armory AASF#1	Planned
Army	Oklahoma	Active	Fort Sill	Underway
Army	Oklahoma	National Guard	Lexington AASF #1	Planned
Army	Oklahoma	Active	McAlester Army Ammunition Plant	Underway
Army	Oregon	National Guard	McNary Field Salem AASF	Planned
Army	Oregon	National Guard	MTA Camp Rilea	Planned
Army	Oregon	National Guard	Umatilla Depot	Planned
Army	Pennsylvania	Active	Carlisle Barracks	Underway
Army	Pennsylvania	National Guard	Fort Indiantown Gap	Underway
Army	Pennsylvania	National Guard	Johnstown AASF #2/Readiness Center	Planned
Army	Pennsylvania	Active	Letterkenny Army Depot	Underway
Army	Pennsylvania	BRAC	N Penn	Underway
Army	Pennsylvania	Active	Scranton Army Ammunition Plant	Underway
Army	Pennsylvania	Active	Tobyhanna Army Depot	Underway
Army	Puerto Rico	National Guard	Camp Santiago Joint Maneuver Training Center	Planned
Army	Puerto Rico	National Guard	Fort Allen	Planned
Army	Rhode Island	National Guard	Quonset Point-AASF	Planned
Army	South Carolina	National Guard	Allendale Armory	Planned
Army	South Carolina	Active	Fort Jackson	Underway
Army	South Carolina	National Guard	McCrary Training Site	Planned
Army	South Dakota	National Guard	Rapid City Airport Complex	Underway
Army	Tennessee	Active	Holston Army Ammunition Plant	Planned
Army	Tennessee	National Guard	Jackson Airport Armory/AASF #3	Planned

Per- and Polyfluoroalkyl Substances in Groundwater: Remedial Investigation Status by Military Installation, National Guard Facility, and Formerly Used Defense Sites Property

DoD Component	State/Territory	Installation Type	Installation Name	Remedial Investigation Status
Army	Tennessee	Active	Milan Army Ammunition Plant	Planned
Army	Tennessee	National Guard	VTS Smyrna	Planned
Army	Texas	National Guard	Austin Bergstrom Hangar	Underway
Army	Texas	National Guard	El Campo	Underway
Army	Texas	Active	Fort Bliss	Underway
Army	Texas	Active	Fort Hood	Underway
Army	Texas	National Guard	Grand Prairie (DNAS)	Underway
Army	Texas	National Guard	Martindale - AASF	Planned
Army	Utah	National Guard	AASF-E.J. Garn Aviation Complex	Planned
Army	Utah	Active	Dugway Proving Ground	Underway
Army	Utah	National Guard	Sustained Airborne TNG FAC	Planned
Army	Utah	Active	Tooele Army Depot	Underway
Army	Utah	Active	Tooele Army Depot South (Deseret Chemical Depot)	Underway
Army	Vermont	National Guard	TS Ethan Allen Range	Planned
Army	Virginia	National Guard	AASF Byrd Field	Planned
Army	Virginia	National Guard	Chesterfield Limited AASF	Planned
Army	Virginia	Active	Fort AP Hill	Underway
Army	Virginia	Active	Fort Belvoir	Underway
Army	Virginia	Active	Fort Lee	Underway
Army	Virginia	National Guard	Fort Pickett MTC	Underway
Army	Virginia	Active	JB Myer Henderson Hall	Underway
Army	Virginia	Active	Radford Army Ammunition Plant	Underway
Army	Virginia	BRAC	Vint Hill Farms	Underway
Army	Washington	Active	JB Lewis McChord	Underway
Army	Washington	Active	JB Lewis McChord - Yakima Training Center	Underway
Army	West Virginia	National Guard	Fixed wing AAS	Planned
Army	Wisconsin	Active	Badger Army Ammunition Plant	Planned
Army	Wisconsin	Active	Fort McCoy	Underway
Army	Wisconsin	National Guard	Madison AASF #2	Planned
Army	Wisconsin	National Guard	West Bend AASF #1 / Armory	Underway
Army	Wyoming	National Guard	MTCH Camp Guernsey	Planned
Navy	Alaska	BRAC	Adak AK NAF	Planned
Navy	Alaska	Active	AMCHITKA AK FLTSURSPTDET1	Underway
Navy	Alaska	Active	BARROW AK NARL	Underway
Navy	Arizona	Active	YUMA AZ MCAS	Underway
Navy	California	BRAC	ALAMEDA_NAS	Underway

Per- and Polyfluoroalkyl Substances in Groundwater: Remedial Investigation Status by Military Installation, National Guard Facility, and Formerly Used Defense Sites Property

DoD Component	State/Territory	Installation Type	Installation Name	Remedial Investigation Status
Navy	California	Active	AZUSA CA NCCOSC MORRIS DA	Underway
Navy	California	Active	BARSTOW CA MCLB	Underway
Navy	California	Active	CAMP PENDLETON CA MCB	Underway
Navy	California	Active	CHINA LAKE CA NAWCWPNSDIV	Underway
Navy	California	Active	EL CENTRO CA NAF	Underway
Navy	California	BRAC	El Toro MCAS	Underway
Navy	California	Active	LEMOORE CA NAS	Underway
Navy	California	Active	MIRAMAR CA MCAS	Planned
Navy	California	Active	NAS PT MUGU CA NAVAIRWARC	Underway
Navy	California	Active	NAVBASE CORONADO	Underway
Navy	California	Active	NAVBASE SAN DIEGO	Underway
Navy	California	Active	NAVCOMTELSTA STOCKTON	Underway
Navy	California	Active	PORT HUENEME CA NFELC	Underway
Navy	California	Active	SAN DIEGO CA FASWTC PAC	Planned
Navy	California	Active	SAN DIEGO CA NISE-WEST	Planned
Navy	California	Active	SEAL BEACH CA WPNSUPFAC	Planned
Navy	California	Active	SPAWARSYSCEN PACIFIC SD	Planned
Navy	California	BRAC	Treasure Island NS	Underway
Navy	California	BRAC	Tustin MCAS	Underway
Navy	Connecticut	Active	NEW LONDON CT NSB	Underway
Navy	Florida	Active	CID CORRY STATION	Underway
Navy	Florida	Active	FISC JAX (NWCF)	Planned
Navy	Florida	Active	JACKSONVILLE FL NAS	Underway
Navy	Florida	Active	MAYPORT FL NS	Underway
Navy	Florida	Active	NSWC DIV PANAMA CITY	Planned
Navy	Florida	Active	PENSACOLA FL NAS	Underway
Navy	Florida	Active	SAUFLEY FLD FL NAS	Underway
Navy	Florida	Active	WHITING FLD FL NAS	Underway
Navy	Georgia	Active	KINGS BAY GA NSB	Underway
Navy	Guam	Active	GUAM NAVACTS	Planned
Navy	Guam	Active	NSA ANDERSEN GUAM	Underway
Navy	Hawaii	BRAC	Barbers Point NAS	Planned
Navy	Hawaii	Active	BARKING SANDS HI PMRF	Planned
Navy	Hawaii	Active	JBPHH PEARL HARBOR HI	Planned
Navy	Hawaii	Active	KANEOHE BAY HI MCB	Planned
Navy	Hawaii	Active	NAVFAC HAWAII P HARBOR	Underway

Per- and Polyfluoroalkyl Substances in Groundwater: Remedial Investigation Status by Military Installation, National Guard Facility, and Formerly Used Defense Sites Property

DoD Component	State/Territory	Installation Type	Installation Name	Remedial Investigation Status
Navy	Hawaii	Active	PEARL HARBOR HI FISC	Underway
Navy	Hawaii	Active	PEARL HARBOR HI NSY	Planned
Navy	Illinois	Active	GREAT LAKES IL NSTC	Underway
Navy	Indiana	Active	NAVSURFWARCENDIV CRANE	Underway
Navy	Maine	BRAC	Brunswick NAS	Underway
Navy	Maine	Active	NCTAMSLANT DET CUTLER	Underway
Navy	Maryland	BRAC	Annapolis NSWC Carderock DIV Det	Underway
Navy	Maryland	Active	CHESAPEAKE BEACH MD RESLB	Underway
Navy	Maryland	Active	INDIAN HEAD MD NSWCTRDIV	Underway
Navy	Maryland	Active	PATUXENT RIVER MD NAS	Underway
Navy	Maryland	Active	ST INIGOES MD NAVELEXSYS	Underway
Navy	Massachusetts	BRAC	South Weymouth NAS	Underway
Navy	Mississippi	Active	GULFPORT MS NCBC	Underway
Navy	Mississippi	Active	MERIDIAN MS NAS	Underway
Navy	Nevada	Active	FALLON NV NAS	Underway
Navy	New Jersey	Active	NMC DET EARLE	Underway
Navy	New Jersey	BRAC	Trenton NAWC-AD	Underway
Navy	New York	Active	CALVERTON NY NPRO	Underway
Navy	North Carolina	Active	CAMP LEJEUNE NC MCB	Underway
Navy	North Carolina	Active	CHERRY POINT NC MCAS	Underway
Navy	Pennsylvania	Active	MECHANICSBURG PA NAVICP	Underway
Navy	Pennsylvania	BRAC	Philadelphia NS	Underway
Navy	Pennsylvania	Active	PHILADELPHIA PA NSWCSSES	Planned
Navy	Pennsylvania	BRAC	Warminster NAWC AD	Underway
Navy	Pennsylvania	BRAC	Willow Grove NASJRB	Underway
Navy	Puerto Rico	Active	ROOSEVELT ROADS RQ CGARCA	Planned
Navy	South Carolina	Active	BEAUFORT SC MCAS	Underway
Navy	South Carolina	Active	PARRIS ISLAND SC MCRD	Underway
Navy	Texas	BRAC	Chase Field NAS	Planned
Navy	Texas	BRAC	Dallas NAS	Underway
Navy	Texas	Active	FT WORTH TX NAS JRB	Underway
Navy	Texas	Active	KINGSVILLE TX NAS	Planned
Navy	Texas	Active	MCLENNAN TX NIROP	Planned
Navy	Virginia	Active	CHESAPEAKE VA NSGA NW	Underway
Navy	Virginia	Active	CHESAPEAKE VA STJULCREEK	Planned
Navy	Virginia	Active	CRANEY ISLAND VA NFD/NSC	Planned

Per- and Polyfluoroalkyl Substances in Groundwater: Remedial Investigation Status by Military Installation, National Guard Facility, and Formerly Used Defense Sites Property

DoD Component	State/Territory	Installation Type	Installation Name	Remedial Investigation Status
Navy	Virginia	Active	DAHLGREN VA NSWCTR DIV	Planned
Navy	Virginia	Active	DAM NECK VA	Planned
Navy	Virginia	Active	LITTLE CREEK VA NAVPHIBSE	Planned
Navy	Virginia	Active	NMC DET YORKTOWN	Underway
Navy	Virginia	Active	NORFOLK VA FISC	Planned
Navy	Virginia	Active	OCEANA VA NAS	Underway
Navy	Virginia	Active	PORTSMOUTH VA NORFOLK NSY	Underway
Navy	Virginia	Active	QUANTICO VA MCCOMBDEV CMD	Planned
Navy	Virginia	Active	WILLIAMSBURG VA FISC CA	Planned
Navy	Washington	Active	BREMERTON WA NAVBASE	Planned
Navy	Washington	Active	INDIAN ISLAND WA NAVMAG	Planned
Navy	Washington	Active	KEYPORT WA NUWC DIV	Underway
Navy	Washington	Active	MANCHESTER WA FUELDPTPSND	Planned
Navy	Washington	Active	OSO JIM CREEK WA NRS	Planned
Navy	Washington	Active	PUGET SOUND WA NAVSHIPYD	Planned
Navy	Washington	Active	WHIDBEY IS WA NAS	Underway
Navy	West Virginia	Active	ROCKET CTR WVA WV ABL MNR	Planned
Air Force	Alabama	Active	Maxwell-Gunter AFB	Underway
Air Force	Alabama	National Guard	Montgomery Regional (Dannelly Field)	Planned
Air Force	Alaska	Active	Clear Space Force Station	Underway
Air Force	Alaska	Active	Eareckson AFS	Underway
Air Force	Alaska	Active	Eielson AFB	Underway
Air Force	Alaska	BRAC	Galena Forward Operating Location	Underway
Air Force	Alaska	Active	Joint Base Elmendorf-Richardson	Underway
Air Force	Alaska	Active	King Salmon	Underway
Air Force	Alaska	BRAC	Kulis Air National Guard Base	Underway
Air Force	Arizona	Active	Air Force Plant 44	Underway
Air Force	Arizona	Active	Davis-Monthan AFB	Underway
Air Force	Arizona	Active	Luke AFB	Underway
Air Force	Arizona	National Guard	Morris (Tucson International Airport)	Underway
Air Force	Arizona	National Guard	Sky Harbor International Airport	Planned
Air Force	Arizona	BRAC	Williams AFB	Planned
Air Force	Arkansas	BRAC	Eaker AFB	Planned
Air Force	Arkansas	Active	Little Rock AFB	Underway
Air Force	California	Active	Air Force Plant 42	Planned
Air Force	California	Active	Beale AFB	Underway

Per- and Polyfluoroalkyl Substances in Groundwater: Remedial Investigation Status by Military Installation, National Guard Facility, and Formerly Used Defense Sites Property

DoD Component	State/Territory	Installation Type	Installation Name	Remedial Investigation Status
Air Force	California	BRAC	Castle AFB	Underway
Air Force	California	National Guard	Channel Islands	Planned
Air Force	California	Active	Edwards AFB	Underway
Air Force	California	National Guard	Fresno Air Guard	Planned
Air Force	California	BRAC	George AFB	Planned
Air Force	California	BRAC	March AFB	Underway
Air Force	California	Active	March Air Reserve Base	Underway
Air Force	California	BRAC	Mather AFB	Underway
Air Force	California	BRAC	McClellan AFB	Planned
Air Force	California	National Guard	Moffett Field	Planned
Air Force	California	BRAC	Norton AFB	Planned
Air Force	California	Active	Travis AFB	Underway
Air Force	California	Active	Vandenberg Space Force Base	Underway
Air Force	Colorado	Active	Air Force Plant PJKS	Planned
Air Force	Colorado	Active	Buckley Space Force Base	Underway
Air Force	Colorado	Active	Cheyenne Mountain Space Force Station	Planned
Air Force	Colorado	BRAC	Lowry AFB	Planned
Air Force	Colorado	Active	Peterson Space Force Base	Underway
Air Force	Colorado	Active	Schriever Space Force Base	Planned
Air Force	Colorado	Active	USAF Academy	Underway
Air Force	Connecticut	National Guard	Bradley International Airport	Planned
Air Force	Delaware	Active	Dover AFB	Underway
Air Force	Delaware	National Guard	New Castle	Planned
Air Force	Florida	Active	Avon Park Air Force Reserve	Underway
Air Force	Florida	Active	Eglin AFB	Underway
Air Force	Florida	Active	Homestead Air Reserve Base	Underway
Air Force	Florida	Active	Hurlburt Field	Underway
Air Force	Florida	National Guard	Jacksonville	Underway
Air Force	Florida	Active	MacDill AFB	Underway
Air Force	Florida	Active	Tyndall AFB	Underway
Air Force	Georgia	Active	Moody AFB	Underway
Air Force	Georgia	Active	Robins AFB	Underway
Air Force	Georgia	National Guard	Savannah International Airport	Underway
Air Force	Idaho	National Guard	Boise	Planned
Air Force	Idaho	Active	Mountain Home AFB	Underway
Air Force	Illinois	BRAC	Chanute AFB	Planned

Per- and Polyfluoroalkyl Substances in Groundwater: Remedial Investigation Status by Military Installation, National Guard Facility, and Formerly Used Defense Sites Property

DoD Component	State/Territory	Installation Type	Installation Name	Remedial Investigation Status
Air Force	Illinois	National Guard	Greater Peoria	Underway
Air Force	Illinois	BRAC	O'Hare Air Reserve Station	Planned
Air Force	Illinois	Active	Scott AFB	Underway
Air Force	Indiana	National Guard	Fort Wayne Municipal	Planned
Air Force	Indiana	BRAC	Grissom AFB	Underway
Air Force	Indiana	Active	Grissom Air Reserve Base	Underway
Air Force	Indiana	National Guard	Hulman	Underway
Air Force	Iowa	National Guard	Des Moines	Planned
Air Force	Iowa	National Guard	Sioux Gateway (Sioux City)	Planned
Air Force	Kansas	National Guard	Forbes Field	Planned
Air Force	Kansas	Active	McConnell AFB	Underway
Air Force	Louisiana	Active	Barksdale AFB	Underway
Air Force	Louisiana	BRAC	England AFB	Planned
Air Force	Maine	National Guard	Bangor International Airport	Planned
Air Force	Maine	BRAC	Loring AFB	Underway
Air Force	Maryland	Active	Joint Base Andrews	Underway
Air Force	Maryland	National Guard	Martin State	Planned
Air Force	Massachusetts	National Guard	Barnes Municipal	Planned
Air Force	Massachusetts	Active	Hanscom AFB	Underway
Air Force	Massachusetts	National Guard	Otis ANG (Joint Base Cape Cod -Massachusetts Military Reservation)	Underway
Air Force	Massachusetts	Active	Westover Air Reserve Base	Underway
Air Force	Michigan	National Guard	Alpena	Underway
Air Force	Michigan	BRAC	KI Sawyer AFB	Underway
Air Force	Michigan	National Guard	Selfridge	Underway
Air Force	Michigan	National Guard	WK Kellogg	Underway
Air Force	Michigan	BRAC	Wurtsmith AFB	Underway
Air Force	Minnesota	National Guard	Duluth International Airport	Underway
Air Force	Minnesota	Active	Minneapolis-St Paul Air Reserve Station	Planned
Air Force	Minnesota	National Guard	Minneapolis-St Paul IAP	Planned
Air Force	Mississippi	Active	Columbus AFB	Underway
Air Force	Mississippi	National Guard	Gulfport Biloxi	Planned
Air Force	Mississippi	National Guard	Jackson	Planned
Air Force	Mississippi	Active	Keesler AFB	Underway
Air Force	Mississippi	National Guard	Key Field	Planned
Air Force	Missouri	BRAC	Richards-Gebaur AFB	Planned
Air Force	Missouri	Active	Whiteman AFB	Planned

Per- and Polyfluoroalkyl Substances in Groundwater: Remedial Investigation Status by Military Installation, National Guard Facility, and Formerly Used Defense Sites Property

DoD Component	State/Territory	Installation Type	Installation Name	Remedial Investigation Status
Air Force	Montana	National Guard	Great Falls International Airport	Planned
Air Force	Montana	Active	Malmstrom AFB	Underway
Air Force	Nebraska	National Guard	Lincoln Municipal	Planned
Air Force	Nevada	Active	Creech AFB	Underway
Air Force	Nevada	Active	Nellis AFB	Underway
Air Force	Nevada	National Guard	Reno Tahoe	Planned
Air Force	New Hampshire	Active	New Boston Space Force Station	Underway
Air Force	New Hampshire	BRAC	Pease AFB	Underway
Air Force	New Jersey	National Guard	Atlantic City	Planned
Air Force	New Jersey	Active	Joint Base McGuire-Dix-Lakehurst	Underway
Air Force	New Mexico	Active	Cannon AFB	Underway
Air Force	New Mexico	Active	Holloman AFB	Underway
Air Force	New Mexico	Active	Kirtland AFB	Planned
Air Force	New York	Active	Air Force Research Laboratory Rome	Planned
Air Force	New York	National Guard	Francis S. Gabreski	Underway
Air Force	New York	BRAC	Griffiss AFB	Planned
Air Force	New York	BRAC	Plattsburgh AFB	Underway
Air Force	New York	National Guard	Schenectady Airport	Planned
Air Force	New York	National Guard	Stewart International Airport	Underway
Air Force	North Carolina	National Guard	New London ANGB (Stanly County Airport)	Planned
Air Force	North Dakota	Active	Cavalier Space Force Station	Underway
Air Force	North Dakota	Active	Grand Forks AFB	Underway
Air Force	North Dakota	National Guard	Hector Field	Planned
Air Force	Ohio	BRAC	Gentile Air Force Station	Planned
Air Force	Ohio	National Guard	Mansfield	Planned
Air Force	Ohio	BRAC	Newark AFB	Planned
Air Force	Ohio	BRAC	Rickenbacker	Planned
Air Force	Ohio	National Guard	Rickenbacker	Planned
Air Force	Ohio	National Guard	Springfield-Beckley Municipal	Planned
Air Force	Ohio	National Guard	Toledo Express	Underway
Air Force	Ohio	Active	Wright Patterson AFB	Underway
Air Force	Ohio	Active	Youngstown Air Reserve Station	Underway
Air Force	Oklahoma	Active	Altus AFB	Underway
Air Force	Oklahoma	Active	Tinker AFB	Underway
Air Force	Oklahoma	Active	Vance AFB/Kegelman	Underway
Air Force	Oklahoma	National Guard	Will Rogers International Airport	Planned

Per- and Polyfluoroalkyl Substances in Groundwater: Remedial Investigation Status by Military Installation, National Guard Facility, and Formerly Used Defense Sites Property

DoD Component	State/Territory	Installation Type	Installation Name	Remedial Investigation Status
Air Force	Oregon	National Guard	Klamath Falls	Planned
Air Force	Oregon	National Guard	Portland International Airport	Underway
Air Force	Pennsylvania	National Guard	Biddle ANGB (formerly Horsham/Willow Grove ANG)	Underway
Air Force	Pennsylvania	National Guard	Harrisburg International Airport	Planned
Air Force	Puerto Rico	National Guard	Puerto Rico Muniz International Airport	Planned
Air Force	Rhode Island	National Guard	Quonset Point State Airport	Planned
Air Force	South Carolina	Active	Joint Base Charleston	Underway
Air Force	South Carolina	National Guard	McEntire Air Guard	Planned
Air Force	South Carolina	BRAC	Myrtle Beach AFB	Underway
Air Force	South Carolina	Active	Shaw AFB	Underway
Air Force	South Dakota	Active	Ellsworth AFB	Underway
Air Force	South Dakota	National Guard	Joe Foss Field (Sioux Falls)	Underway
Air Force	Tennessee	Active	Arnold AFB	Underway
Air Force	Tennessee	National Guard	McGhee-Tyson	Planned
Air Force	Tennessee	National Guard	Memphis International Airport	Planned
Air Force	Texas	Active	Air Force Plant 4	Underway
Air Force	Texas	BRAC	Bergstrom AFB	Planned
Air Force	Texas	National Guard	Ellington Field	Planned
Air Force	Texas	Active	Joint Base San Antonio - Lackland, Randolph, Ft Sam Houston, Camp Bullis	Underway
Air Force	Texas	BRAC	Kelly AFB	Planned
Air Force	Texas	BRAC	Reese AFB	Underway
Air Force	Utah	Active	Hill AFB	Underway
Air Force	Utah	National Guard	Salt Lake City	Planned
Air Force	Vermont	National Guard	Burlington	Planned
Air Force	Virginia	Active	Joint Base Langley-Eustis	Underway
Air Force	Virginia	National Guard	Richmond International Airport Byrd Field	Planned
Air Force	Washington	Active	Fairchild AFB	Underway
Air Force	West Virginia	National Guard	EWVRA Shepherd Field (Martinsburg)	Underway
Air Force	West Virginia	National Guard	Yeager (McLaughlin)	Planned
Air Force	Wisconsin	National Guard	General Mitchell	Planned
Air Force	Wisconsin	BRAC	General Mitchell Air Reserve Station	Underway
Air Force	Wisconsin	National Guard	Truax Field	Underway
Air Force	Wisconsin	National Guard	Volk Field	Underway
Air Force	Wyoming	National Guard	Cheyenne Municipal	Planned
Air Force	Wyoming	Active	FE Warren AFB	Underway
DLA	California	Active	DFSP Norwalk	Planned

Per- and Polyfluoroalkyl Substances in Groundwater: Remedial Investigation Status by Military Installation, National Guard Facility, and Formerly Used Defense Sites Property

DoD Component	State/Territory	Installation Type	Installation Name	Remedial Investigation Status
DLA	California	Active	DFSP Ozol	Planned
DLA	California	Active	DFSP San Pedro	Planned
DLA	New Hampshire	Active	DFSP Newington	Planned
DLA	New York	Active	DFSP Verona	Underway
FUDS	California	FUDS	HAMILTON ARMY AIRFIELD	Planned
FUDS	Michigan	FUDS	KINCHELOE AIR FORCE BASE	Underway
FUDS	Rhode Island	FUDS	NAVAL AUX LANDING FIELD	Underway