

The Navy is identifying potential exposure to certain per- and polyfluoroalkyl substances (PFAS) in private drinking water.

- operations.
- specifically PFOA and PFOS.
- in firefighting foam.
- PFOS.

Why is the Navy Sampling Private Drinking Water Wells Nationwide?

For updates as more information becomes available, visit https://go.usa.gov/xVCV9

The Navy is committed to protecting our neighbors' drinking water and taking responsibility for our previous

In 2016, the EPA established a drinking water lifetime health advisory (70 ppt) for two currently unregulated PFAS,

The most common historical Navy use of PFOA and PFOS was

In 2016, the Navy issued a protective policy to identify and prioritize sites with the potential for exposure to PFOA and

and address the potential for exposure to PFOA and PFOS.

If you have specific questions, please contact the Public Affairs Office at 860-694-5980 or chris.zendan@navy.mil

The Navy has initiated basewide investigations for all Navy installations to identify





SUBASE New London is following the Navy's PFAS Assessment Investigative Process Historic records research/review Interviews and questionnaires Database searches Site visit Local water provider information Findings documented in an Assessment Report 15 areas identified as potential PFAS release areas No sampling for PFAS has been performed to date

Identifying Potential PFAS Sites

For updates as more information becomes available, visit https://go.usa.gov/xVCV9

per- and polyfluoroalkyl substances PFAS perfluorooctanoic acid **PFOA**

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perfluorooctane sulfonate PFOS within SUBASE New London fence line On-base

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Areas of Potential Concern

Potential On-Site PFAS Sites

1	Former Equipment Storag
2	Central Paint Accumulation
3	Paved Storage Area (Alph
4	Hazardous Materials Stor
5	Hazardous Waste Storage
6	Machine Shop (Building 4
7	Potential Former Fire Trai
8	SUBASE New London Fir
9	Vehicle Accident Fire Res
10	Former Fuel Storage Buil
11	Damage Control Center (I
12	Former Sewage Treatmer
13	Fuel Farm
	Potential Off-Si
14	Location of Two Controlle
15	SUBASE New London Fir

EPA	U.S. Environmental Protection Agency	PF
ppt	parts per trillion	PF
PFAS	per- and polyfluoroalkyl substances	Or

Potential PFAS Sites

ge (Building 355 - DRMO)

on Area (Building 174)

ha Lot)

rage (Building 561)

e (Building 562)

40)

ining Location (Building 88)

re Station 1 (Building 107)

sponse (late 1980's)

Iding (Building 548)

Building 465)

nt Plant

ite PFAS Sites

ed Burns (Jackson Drive)

re Station 2

OA perfluorooctanoic acid perfluorooctane sulfonate OS n-base within SUBASE New London fence line

INSTALLATION AREA

For updates as more information becomes available, visit https://go.usa.gov/xVCV9

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- The designated sampling area is located in the direction of groundwater flow from the potential PFAS sites.
- SUBASE and Balfour Beatty Communities -Public Private Venture Housing drinking water is provided by public water supply.
- Based on the results of private drinking water well sampling the Navy may expand the sampling area.

If you are within the designated area, the Navy needs your cooperation to sample your private drinking water well

EPA	U.S. Environmental Protection Agency	PF
ppt	parts per trillion	PF
PFAS	per- and polyfluoroalkyl substances	Or

Off-Base Private Drinking Water Well Sampling

perfluorooctanoic acid perfluorooctane sulfonate n-base within SUBASE New London fence line

DOWNGRADIENT AREA

INSTALLATION AREA

Off-Base Private Drinking Water Well Sampling

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Where Do PFAS Come From?

- Man-made compounds, no natural occurrence.
- Used since 1950s in many products.
- Last a long time in the environment.
- Found in people, animals, and fish around the world.

firefighting foam

stain-resistant carpets

personal care products

nonstick cookware

Per- and Polyfluoroalky Substances (PFAS)

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Protects against potential harmful health effects of lifetime exposures to the general public and sensitive populations

Assumes the majority of overall exposure is from sources other than drinking water.

Is only an advisory and is therefore nonenforceable.

Based on studies of health effects from PFOA and PFOS in laboratory animals.

Considers health effects from exposure to PFOA and PFOS.

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What is the EPA's Lifetime Health Advisory?

Sets a total concentration of 70 ppt of PFOA and PFOS in drinking water.

- Fetuses
- Nursing infants
- Pregnant women
- People with certain health conditions

PFAS in People

- Most people in the U.S. have PFAS in their bodies.
- Levels of PFOA and PFOS are decreasing following their phaseout from use.
- Some PFAS stay in the body a long time.

There is no recommended medical treatment to reduce PFAS in the body.

PFAS Exposure

- Appears to be widespread around the world
- Primarily through ingestion of contaminated food, water, or soil, including accidental ingestion
- Will build up in the body until exposure stops
- Pregnant and nursing mothers may pass PFAS to children
- PFAS typically do not absorb through skin contact

Exposure and Health Effects

For updates as more information becomes available, visit https://go.usa.gov/xVCV9

CDC	Cente
EPA	U.S. Ei
ppt	parts

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Potential Health Effects

More research is needed to determine possible links between PFAS exposure and health effects.

Animals exposed to high levels of PFAS had changes in liver, thyroid, and pancreas function; altered hormone levels; and increased rates of certain cancers.

Limited evidence suggests that potential human health effects may include:

Increased cholesterol levels

Changes in growth, learning, and behavior of the developing fetus and child

Immune system changes

Decreased fertility

Altered hormone function

Increased risk of certain types of cancer

Based on current data, the levels of PFOA or PFOS cannot be linked to an individual's current or future health effects.

per- and polyfluoroalkyl substances PFAS PFOA perfluorooctanoic acid PFOS perfluorooctane sulfonate

Potentially expand the sampling area based on sampling results Continue to communicate with residents Continue on-base PFAS study

Next Steps

If you have specific questions, please contact the Public Affairs Office at For updates as more information becomes available, visit 860-694-5980 or chris.zendan@navy.mil https://go.usa.gov/xVCV9

Ongoing Actions

Continue to work with Federal, State, and Local partners

per- and polyfluoroalkyl substances PFAS perfluorooctanoic acid **PFOA**

PFOS On-base

perfluorooctane sulfonate within SUBASE New London fence line

RESULTS GREATER THAN 70 PPT RECEIVE ALTERNATE WATER FOR DRINKING AND **COOKING WITHIN 24 HOURS**

SUMMARY OF RESULTS WILL BE POSTED ON **INVESTIGATION WEBSITE** HTTPS://GO.USA.GOV/TBD

PRIORITY: Protect Human Health and the Environment

- provide oversight at every step of the process

Environmental Cleanup Process

INVESTIGATION

- Evaluate potential sources
- Determine where and how much contamination exists
- Determine how people and the environment might be exposed

The PFAS evaluation is in its early stages. The first step is to identify potential sources of PFOS/PFOA. The second step is to determine if PFOS/PFOA is actually present. If PFOS/PFOA are not present, then no further action will be necessary.

Environmental Cleanup Process for PFAS

For updates as more information becomes available, visit https://go.usa.gov/xVCV9

Structured process to identify and address the contamination

Public input is welcome throughout the process and is formally solicited at certain points

This process can be lengthy and the Navy is in the early stages

EVALUATING OPTIONS & REMEDY SELECTION

DESIGN, CONSTRUCT, & IMPLEMENT

Determine best way to eliminate exposure

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EPA and Connecticut Department of Energy and Environmental Protection work closely with the Navy and

Long term solution to eliminate exposure to contamination

Maintenance and monitoring

PROCESS COMPLETE

Sampling your private drinking water well is voluntary.

Sampling Process

- The Navy will be sampling drinking water wells in the designated sampling area.
 - Drinking water sample appointments can be made for September 18, 2019 or after, any time from 8:00 am to 7:00 pm.
 - Sample appointments will take less than one hour.
- We need property owner permission to:
 - Agree to sampling and complete the questionnaire.
 - Schedule your appointment.
 - An adult (18 years or older) must be present during sampling.

We Need Your Cooperation – **Drinking Water Sampling Process**

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Two Ways to Schedule an Appointment

1. SCHEDULE YOUR APPOINTMENT HERE TODAY 2. SCHEDULE AN APPOINTMENT AFTER TODAY, CALL 1-860-694-5980

Off-base Drinking Water Well Sampling

- Team will consist of up to three members and will include at least one Navy representative.
- An adult (18 years or older) must be present at the time of sampling.
- Sample will be collected from the closest available point to the well (before treatment, if possible).
- Water will be run for no more than 15 minutes before sampling.
- Simple hand-held equipment will be used.
- Samples will be analyzed according to EPA guidelines following strict quality control and quality assurance protocols.
 - You'll be notified of results in approximately 30 days.

Sign Up for Your Sampling Appointment Here

For updates as more information becomes available, visit https://go.usa.gov/xVCV9

Samples will be collected by a team of qualified professionals

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