



# Why Is the Navy Sampling Drinking Water Wells Nationwide?

**The Navy is currently addressing exposure to PFOA and PFOS in drinking water near NAS Whiting Field and its outlying landing fields.**

- In 2016, the EPA established a lifetime drinking water health advisory (70 ppt) for two PFAS (PFOA and PFOS).
- The Navy issued a policy to address PFOA and PFOS in drinking water.
- The main historical source of PFOA and PFOS was firefighting foam.
  - No longer used for training.
  - Currently only used in lifesaving emergency measures.
- The Navy is investigating all of our installations to identify PFOA and PFOS exposure.



Image: Tosab Photography / unsplash

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## ACRONYMS & ABBREVIATIONS

EPA	U.S. Environmental Protection Agency
NAS	Naval Air Station
OLF	Outlying Landing Field
PFAS	per- and polyfluoroalkyl substances

PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonate
ppt	part(s) per trillion

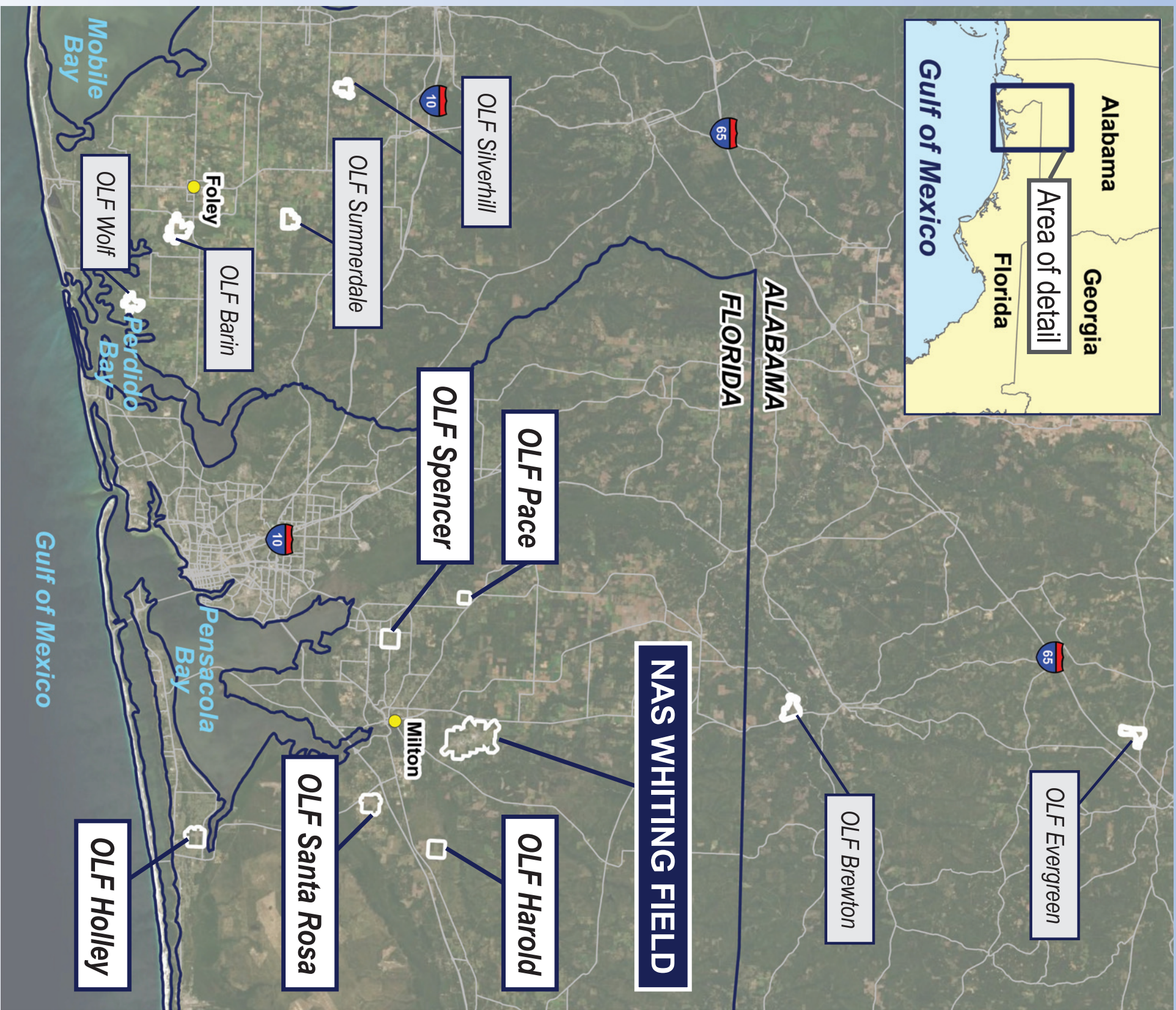
**Note:** "Health advisory" refers to the EPA lifetime drinking water health advisory for PFOA and/or PFOS (70 ppt).





# NAS Whiting Field

## Outlying Landing Fields



**LEGEND**

Base boundary    State boundary    Major road



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ACRONYMS & ABBREVIATIONS			
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# NAS Whiting Field

## On-Base PFAS Release Areas



- 23 PFAS release areas have been identified on NAS Whiting Field.
- Types of PFAS release areas on NAS Whiting Field include:
  - Runways
  - Hangars
  - Fire training areas
  - Fire stations
  - Wastewater treatment plants
  - Sludge disposal
  - Landfills

### LEGEND

- PFAS release area
- Base boundary
- Surface water
- Confirmed groundwater flow direction
- Estimated groundwater flow direction



### ACRONYMS & ABBREVIATIONS

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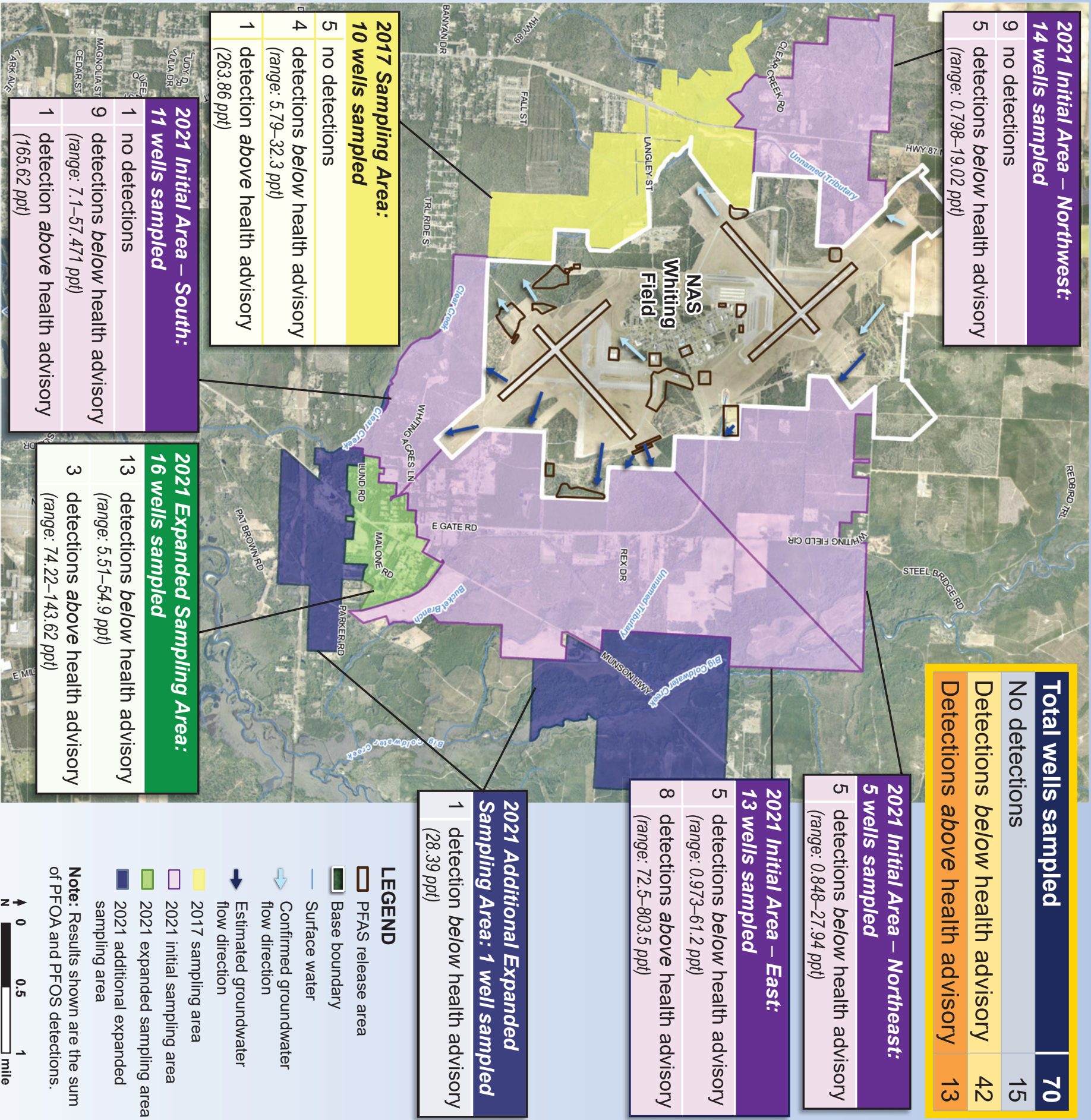
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# NAS Whiting Field Off-Base Drinking Water Sampling Area with PFOA and PFOS Results

All properties with results above the health advisory have been connected to public water.



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# NAS Whiting Field Off-Base Drinking Water Sampling PFOA and PFOS Results

Sampling Area	Sample	PFOS (ppt)	Q	PFOA (ppt)	Q	PFOS + PFOA (ppt)	Result Interpretation
2017 Sampling Area	1	4.86 J		259		263.86	above health advisory
	2	12.9 J		19.4		32.3	below health advisory
	3	3.26 J		7.5 J		10.76	below health advisory
	4	not detected		6.53 J		6.53	below health advisory
	5	not detected		5.79 J		5.79	below health advisory
	6	not detected		not detected		not detected	not detected
	7	not detected		not detected		not detected	not detected
	8	not detected		not detected		not detected	not detected
	9	not detected		not detected		not detected	not detected
	10	not detected		not detected		not detected	not detected
2021 Initial Area – Northwest	11	3.12		15.9		19.02	below health advisory
	12	1.4 J		not detected		1.4	below health advisory
	13	0.831 J		not detected		0.831	below health advisory
	14	0.831 J		not detected		0.831	below health advisory
	15	0.798 J		not detected		0.798	below health advisory
	16	not detected		not detected		not detected	not detected
	17	not detected		not detected		not detected	not detected
	18	not detected		not detected		not detected	not detected
	19	not detected		not detected		not detected	not detected
	20	not detected		not detected		not detected	not detected
2021 Initial Area – Northeast	21	not detected		not detected		not detected	not detected
	22	not detected		not detected		not detected	not detected
	23	not detected		not detected		not detected	not detected
	24	not detected		not detected		not detected	not detected
	25	1.34 J		26.6		27.94	below health advisory
	26	1.99 J		24.1		26.09	below health advisory
	27	0.818 J		8.89		9.708	below health advisory
	28	1.67 J		6.08		7.75	below health advisory
	29	0.848 J		not detected		0.848	below health advisory
	30	39.5		764		803.5	above health advisory
2021 Initial Area – East	31	2.55		206		208.55	above health advisory
	32	6.45		180		186.45	above health advisory
	33	130		34.3		164.3	above health advisory
	34	77.3		19.8		97.1	above health advisory
	35	11.2		71.9		83.1	above health advisory
	36	66.8		12.6		79.4	above health advisory
	37	11.2		61.3		72.5	above health advisory
	38	2.7		58.5		61.2	below health advisory
	39	24.4		5.64		30.04	below health advisory
	40	8.63		3.59		12.22	below health advisory
2021 Initial Area – South	41	4.65		5.19		9.84	below health advisory
	42	not detected		0.973 J		0.973	below health advisory
	43	3.62		162		165.62	above health advisory
	44	0.771 J		56.7		57.471	below health advisory
	45	2.22		50.8		53.02	below health advisory
	46	16.8		25.8		42.6	below health advisory
	47	23.6		17.6		41.2	below health advisory
	48	19.3		13.5		32.8	below health advisory
	49	11.2		4.65		15.85	below health advisory
	50	2.22		9.85		12.07	below health advisory
2021 Expanded Sampling Area	51	1.39 J		6.93		8.32	below health advisory
	52	5.49		1.61 J		7.1	below health advisory
	53	not detected		not detected		not detected	not detected
	54	3.62		140		143.62	above health advisory
	55	1.78 J		103		104.78	above health advisory
	56	3.82		70.4		74.22	above health advisory
	57	not detected		54.9		54.9	below health advisory
	58	5.54		48.6		54.14	below health advisory
	59	7.56		37.4		44.96	below health advisory
	60	not detected		42.9		42.9	below health advisory
2021 Additional Expanded Sampling Area	61	8.29		34		42.29	below health advisory
	62	2.34		31.7		34.04	below health advisory
	63	2.37		28.5		30.87	below health advisory
	64	3.29		23.6		26.89	below health advisory
	65	not detected		25.1		25.1	below health advisory
	66	2.12		20.3		22.42	below health advisory
	67	3.13		11.6		14.73	below health advisory
	68	8.32		not detected		8.32	below health advisory
	69	not detected		5.51		5.51	below health advisory
	70	2.19		26.2		28.39	below health advisory

**Note:** The "Q" columns identify data qualifiers that apply to given results. A "J" (estimated value) indicates the value reported for the analyte is detected below the LOQ. The value reported is considered estimated.

FOR MORE INFORMATION

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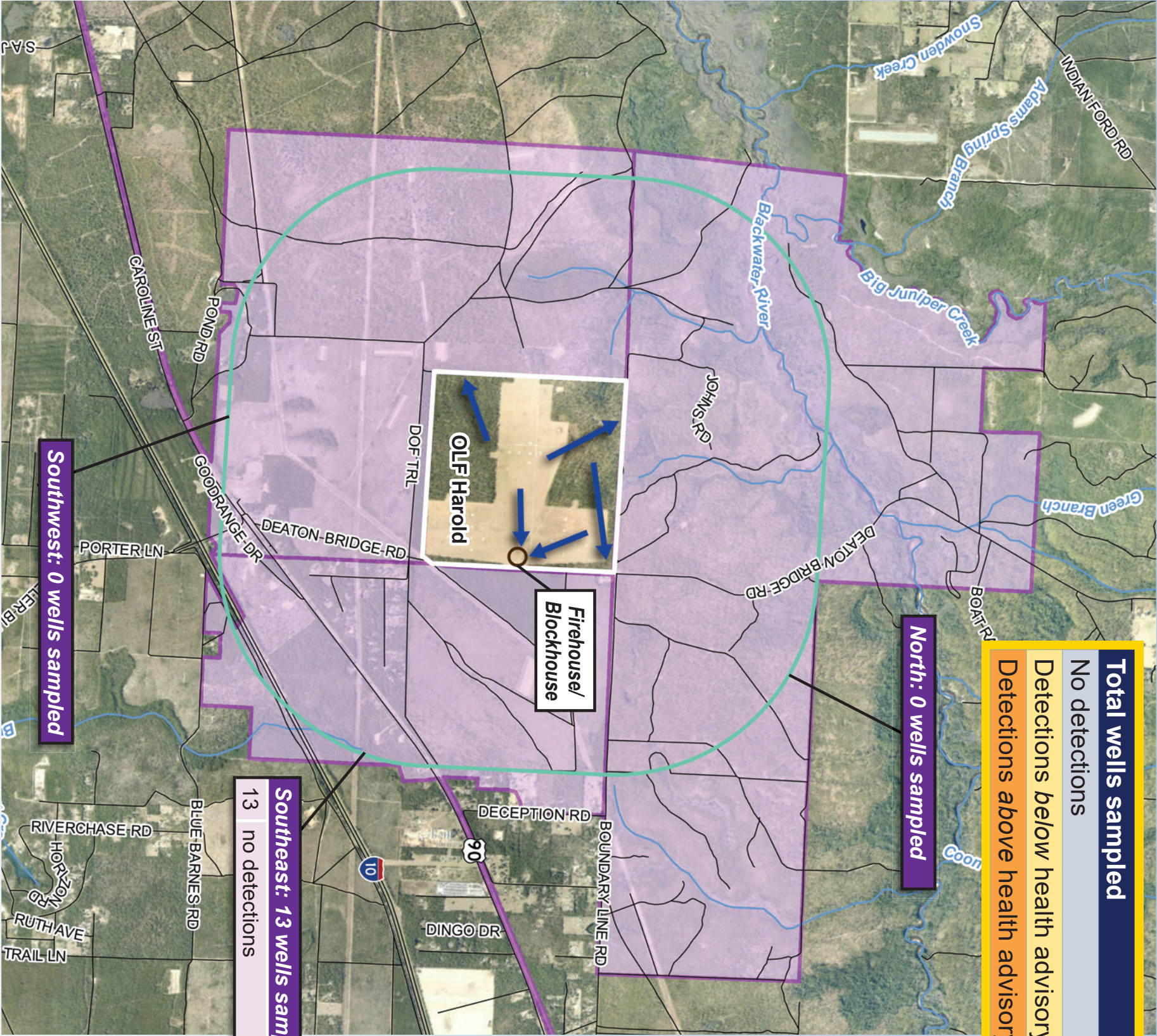
**Note:** "Health advisory" refers to the EPA lifetime drinking water health advisory for PFOA and/or PFOS (70 ppt).





# OLF Harold Off-Base Drinking Water Sampling Area with PFOA and PFOS Results

Total wells sampled	13
No detections	13
Detections below health advisory	0
Detections above health advisory	0



- LEGEND**
- PFAS release area
  - Base boundary
  - Surface water
  - Estimated groundwater flow direction
  - Downgradient 1-mile PFAS release buffer
  - Sampling area



## ACRONYMS & ABBREVIATIONS

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NAS	Naval Air Station
OLF	Outlying Landing Field
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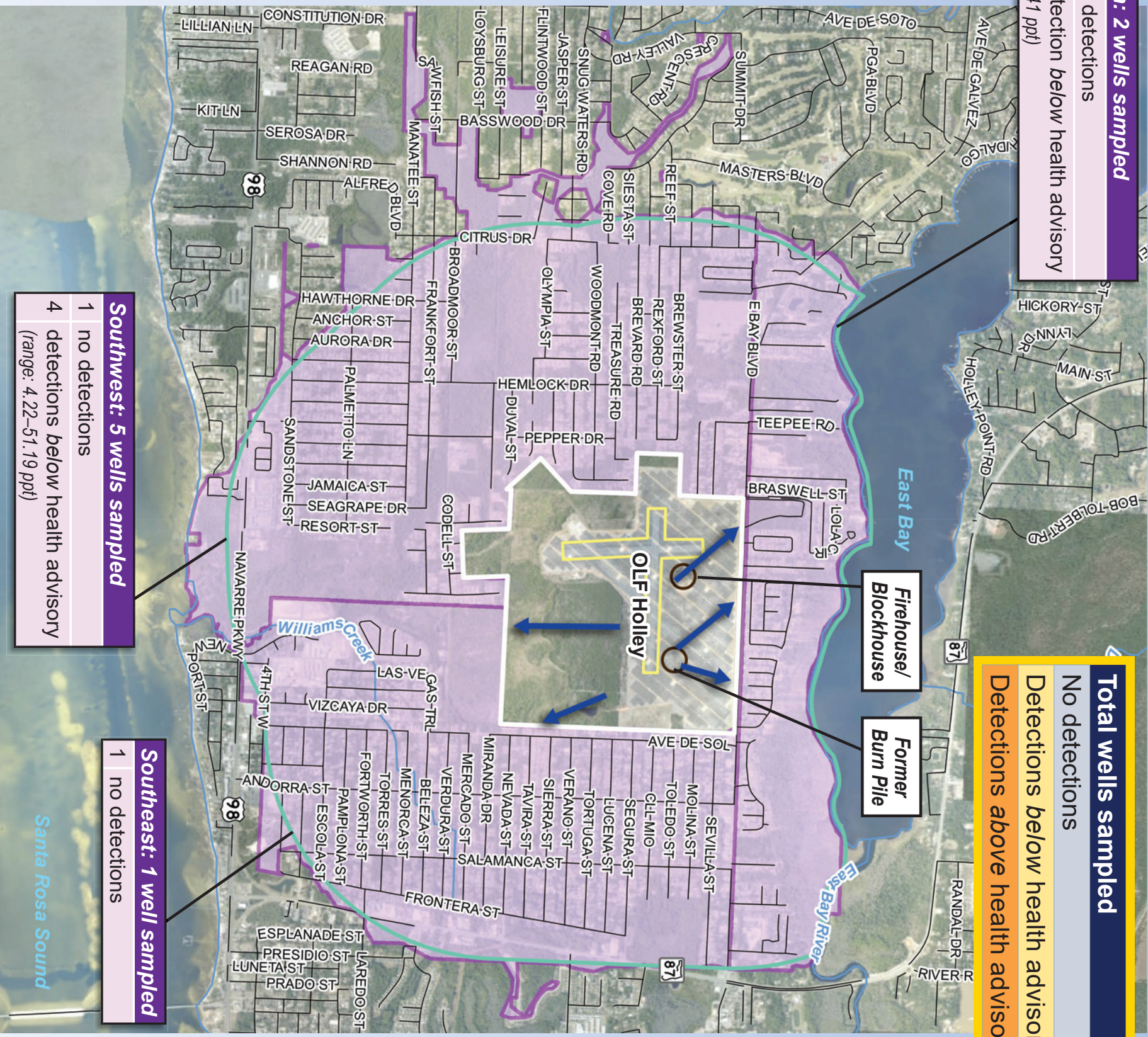


# OLF Holley Off-Base Drinking Water

## Sampling Area with PFOA and PFOS Results

North: 2 wells sampled	
1	no detections
1	detection below health advisory (3.41 ppt)

Total wells sampled	8
No detections	3
Detections below health advisory	5
Detections above health advisory	0



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**Note:** "Health advisory" refers to the EPA lifetime drinking water health advisory for PFOA and/or PFOS (70 ppt).



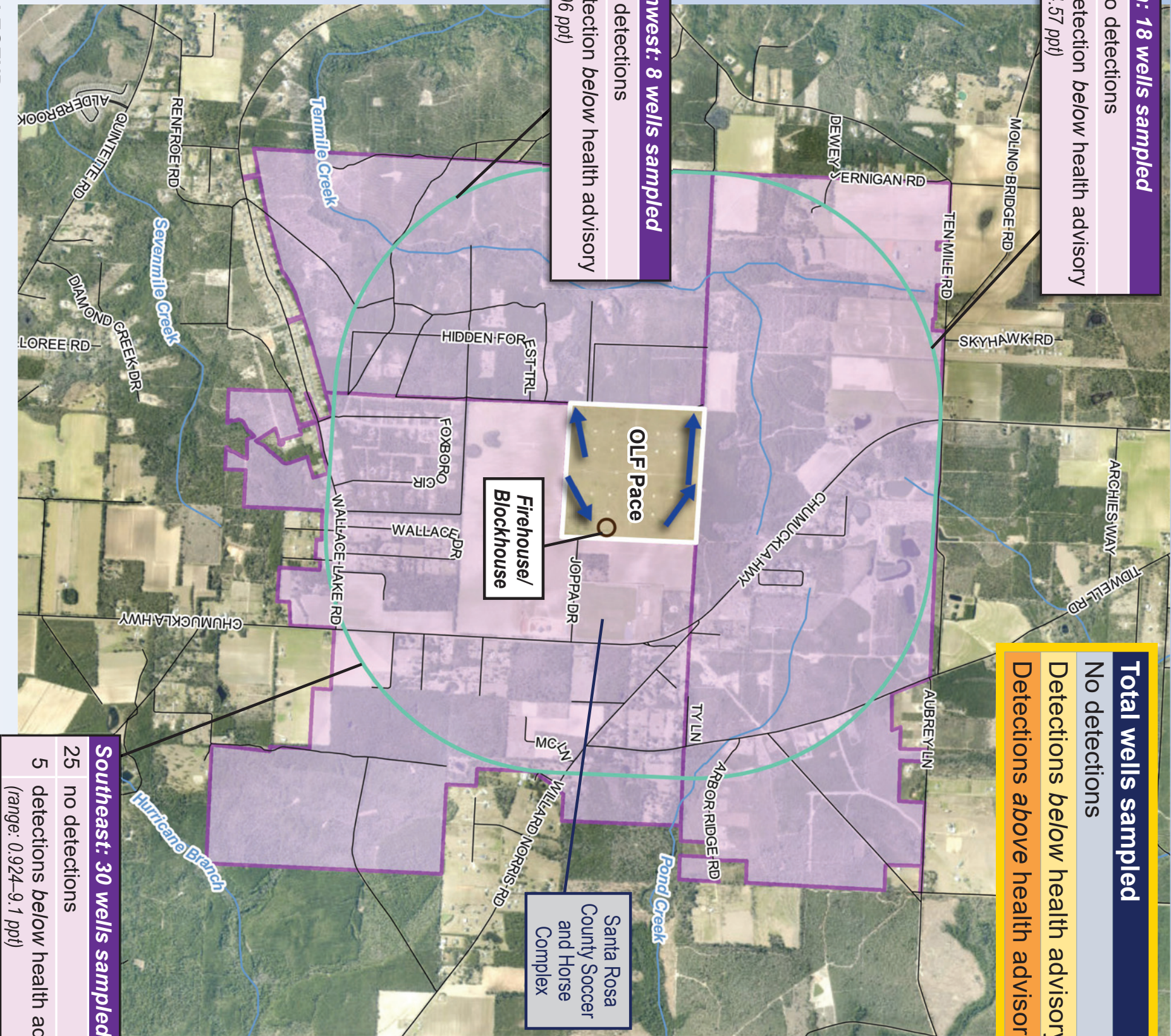


# OLF Pace Off-Base Drinking Water Sampling Area with PFOA and PFOS Results

North: 18 wells sampled	
17	no detections
1	detection below health advisory (4.57 ppt)

Total wells sampled	56
No detections	49
Detections below health advisory	7
Detections above health advisory	0

Southwest: 8 wells sampled	
7	no detections
1	detection below health advisory (3.06 ppt)



Southeast: 30 wells sampled	
25	no detections
5	detections below health advisory (range: 0.924–9.1 ppt)

- LEGEND**
- PFAS release area
  - Base boundary
  - Estimated groundwater flow direction
  - Downgradient 1-mile PFAS release buffer
  - Surface water
  - Sampling area

**Note:** Results shown are the sum of PFOA and PFOS detections.



**FOR MORE INFORMATION**  
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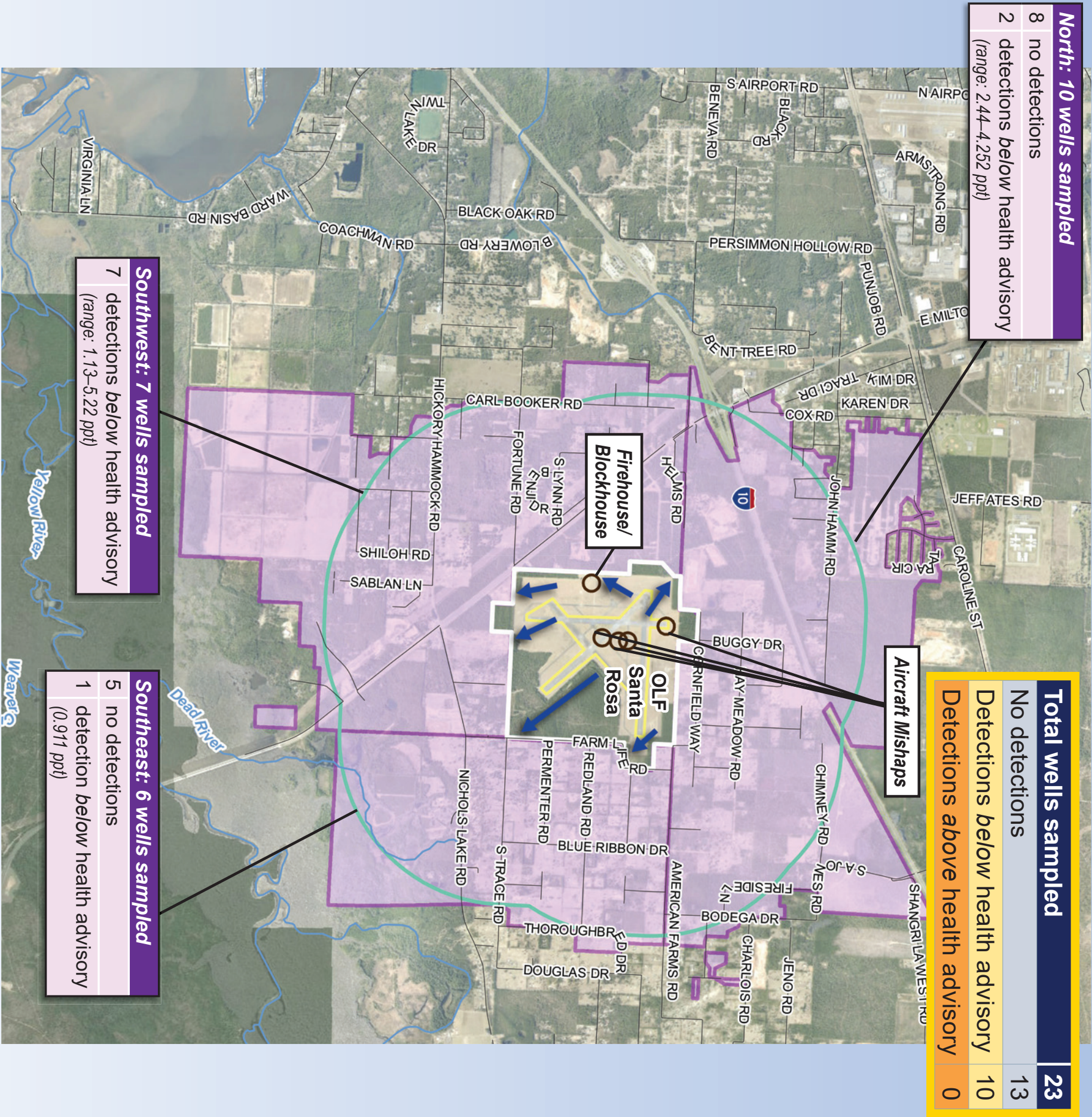
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PFAS	per- and polyfluoroalkyl substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonate
ppt	part(s) per trillion

**Note:** "Health advisory" refers to the EPA lifetime drinking water health advisory for PFOA and/or PFOS (70 ppt).





# OLF Santa Rosa Off-Base Drinking Water Sampling Area with PFOA and PFOS Results



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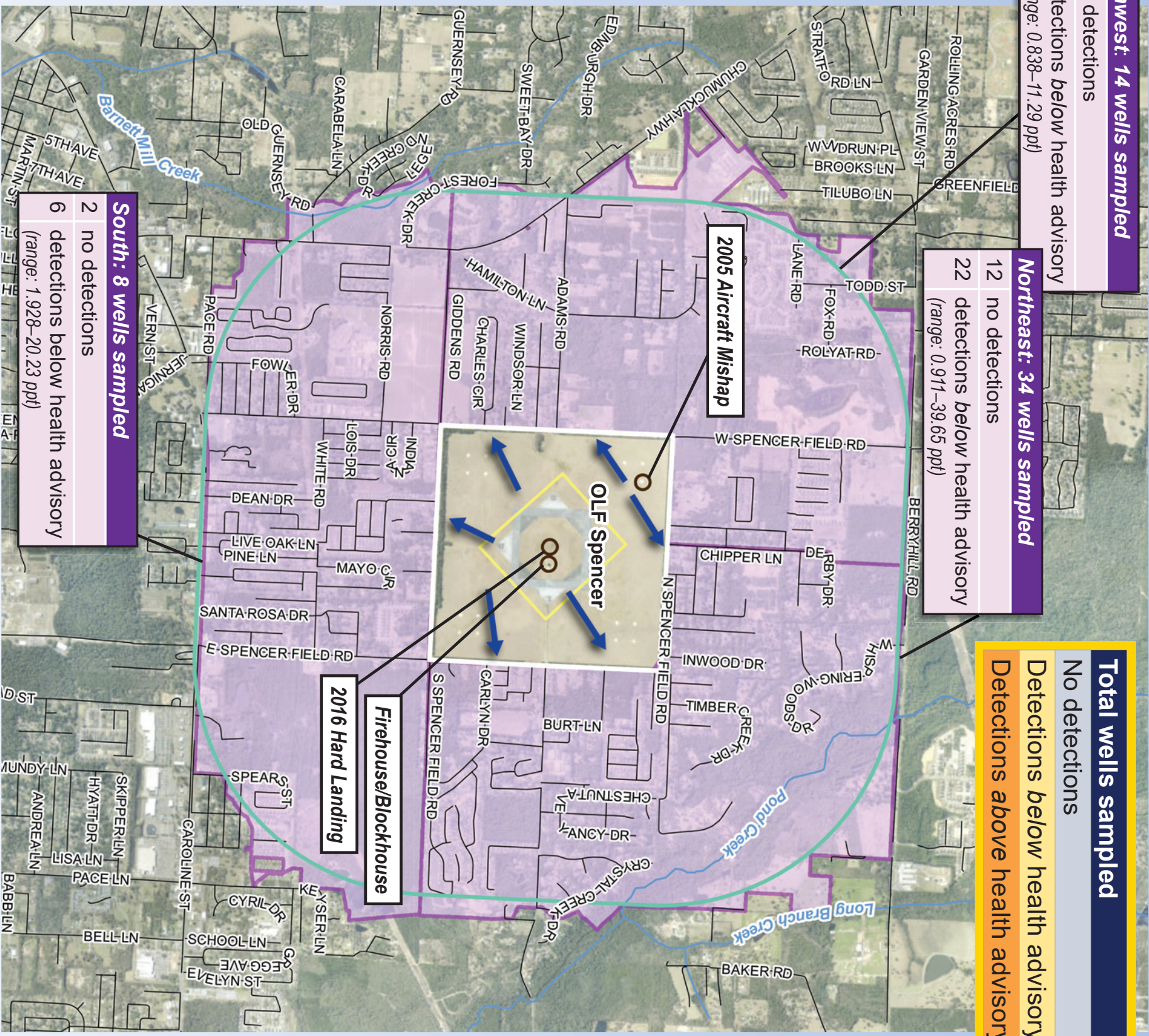
# OLF Spencer Off-Base Drinking Water

## Sampling Area with PFOA and PFOS Results

Northwest: 14 wells sampled	
8	no detections
6	detections below health advisory (range: 0.838–11.29 ppt)

Northeast: 34 wells sampled	
12	no detections
22	detections below health advisory (range: 0.911–39.65 ppt)

Total wells sampled	
No detections	22
Detections below health advisory	34
Detections above health advisory	0



LEGEND	
	PFAS release area
	Runways
	Base boundary
	Surface water
	Estimated groundwater flow direction
	Downgradient 1-mile PFAS release buffer
	Sampling area

**Note:** Results shown are the sum of PFOA and PFOS detections.



### ACRONYMS & ABBREVIATIONS

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NAS	Naval Air Station
OLF	Outlying Landing Field
PFAS	per- and polyfluoroalkyl substances

PFQA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonate
ppt	part(s) per trillion

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# Understanding Data Packages

## Example Data Report

The EPA lifetime drinking water health advisory for PFOA and/or PFOS is 70 ppt (70 ng/L).

1 ng/L = 1 ppt  
nanogram per liter

This section contains sample processing information used by the laboratory.

Sample ID:		EPA Method 537.1									
Client Data			Matrix: Drinking Water			Laboratory Data					
Name:			Date Collected:		20-Jan-21 12:00	Lab Sample:		2101137-08	Column:		BEH C18
Project:						Date Received:		21-Jan-21 10:20			
Location:											
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Sample Size	Analyzed	Dilution
PFBS	375-73-5	ND	0.738	1.48	1.97		B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
PFHXA	307-24-4	53.8	0.738	1.48	1.97		B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
HPPO-DA	1352-13-6	ND	0.738	1.48	1.97		B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
PFHpA	375-85-9	16.9	0.738	1.48	1.97	B	B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
ADONA	919005-14-4	ND	0.738	1.48	1.97		B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
PFHxS	355-46-4	173	0.738	1.48	1.97	D	B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	2
PFOA	335-67-1	162	0.738	1.48	1.97		B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
PfNA	375-95-1	ND	0.738	1.48	1.97		B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
PFOS	1763-23-1	1.54	0.738	1.48	1.97	J	B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
9CI-PF3ONS	756426-58-1	ND	0.738	1.48	1.97		B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
PFDA	335-76-2	ND	0.738	1.48	1.97		B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
MeFOSAA	2355-31-9	ND	0.738	1.48	1.97		B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
EtFOSAA	2991-50-6	ND	0.738	1.48	1.97		B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
PfUnA	2058-94-8	ND	0.738	1.48	1.97		B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
PFDA	307-55-1	ND	0.738	1.48	1.97		B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
PFTrDA	72629-94-8	ND	0.738	1.48	1.97		B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
11CI-PF3OLDS	763051-92-9	ND	0.738	1.48	1.97		B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
PfTrDA	376-06-7	ND	0.738	1.48	1.97		B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
Labeled Standards	Type	% Recovery		Limits		Qualifiers	Batch	Extracted	Sample Size	Analyzed	Dilution
13C2-PFBXA	SURR	89.9		70 - 130			B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
13C2-PFDA	SURR	110		70 - 130			B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
d5-EtFOSAA	SURR	89.2		70 - 130			B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
13C3-HPPO-DA	SURR	93.2		70 - 130			B1/A0133	23-Jan-21	0.254 L	25-Jan-21 14:24	1
DL - Detection Limit			Results reported to the DL.			When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.					
LOQ - Limit of quantitation											

The result for PFBs:  
**PFBs was *not* detected in the sample.**  
This is reported as “ND” (*not* detected).

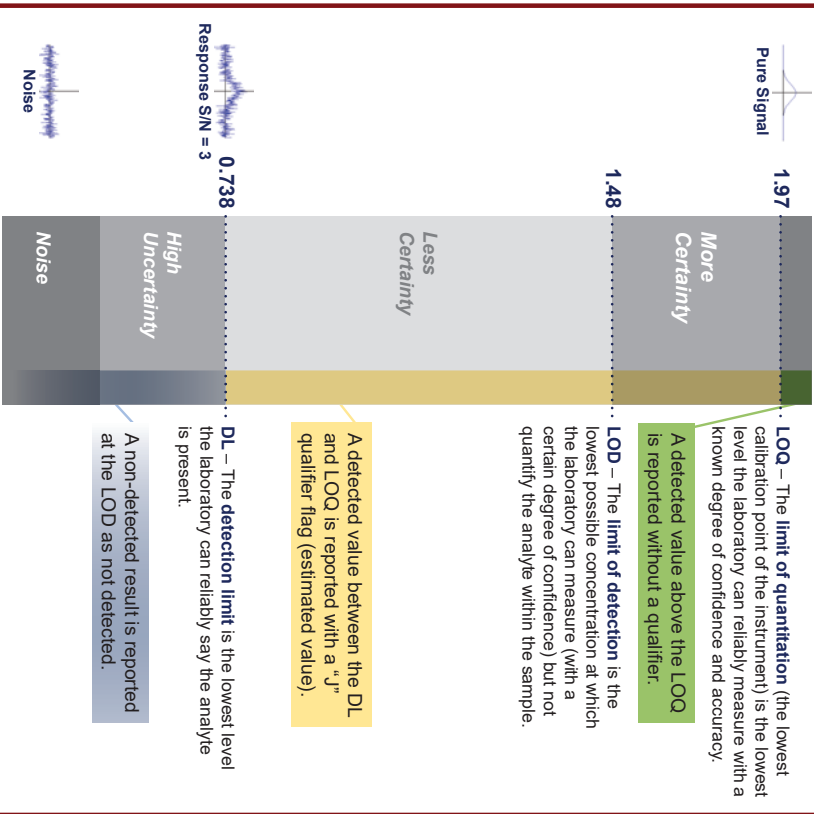
The result for PFOA:  
**PFOA was detected in the sample at 162 ng/L (162 ppt).**

The result for PFOS:  
**PFOS was detected in the sample at 1.54 ng/L (1.54 ppt).**  
The “J” qualifier means that the PFOS was detected but the amount detected is estimated.

A **surrogate** is a substance similar to the analytes of interest.

- Not found naturally in the substance.
- Intentionally added to the sample at a known amount to monitor the performance of the sample’s preparation and analysis.

### Instrument Measurements and Analytical Reporting



This column identifies the data qualifiers that apply to a given result. Possible laboratory qualifiers are:

- “B” (**Blank**) – this analyte was also detected in the method blank.
- “D” (**Diluted Sample**) – dilution was required by the laboratory to obtain a sample result within the calibration range. The final result is adjusted for the dilution factor.
- “J” (**Estimated Value**) – indicates the value reported for the analyte is detected below the LOQ. The value reported is considered estimated.

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# Per- and Polyfluoroalkyl Substances (PFAS)

## What Are PFAS?

- Family of manufactured chemicals.
- PFOA and PFOS are the most studied and understood.
- Found in the environment around the world (in air, water, soil, animals, plants, as well as in people).
- Last a long time in the environment.
- Used since 1940s in many products, such as:



Image: U.S. Navy / Photographer's Mate 3rd Class Tommy Gilligan  
firefighting foam



Image: freepik.com  
stain-resistant carpets and fabrics



Image: Kyle Boone / unsplash  
water-resistant fabrics



Image: freepik.com  
personal care products



Image: Valeria\_Aksakova / freepik  
nonstick cookware



Image: freepik.com  
food packaging

## What Is the EPA Lifetime Drinking Water Health Advisory for PFOA and PFOS?

- It is a combined level of PFOA and PFOS of 70 ppt in drinking water.
- It is intended to protect against harmful health effects to sensitive populations and the general public, for lifetime exposure.

## How Was the EPA Lifetime Drinking Water Health Advisory Calculated?

- It is based on studies of health effects from PFOA and PFOS in laboratory animals.
- It assumes 20 percent of overall exposure is from drinking water, and 80 percent of overall exposure is from other sources.
- It considers information regarding health effects in people exposed to PFOA and PFOS, including the fetuses or nursing infants of mothers who are exposed.

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# PFAS Exposure and Health Effects

## Do People Have PFAS in Their Bodies?

- CDC estimates that most people in the U.S. have PFAS in their bodies.
- PFAS can build up in the body.
- Reducing exposure to PFAS can reduce levels in the body.

## How Can People Be Exposed to PFAS?

- PFAS may be in drinking water, food, indoor dust, some consumer products, and workplaces.
- Non-occupational exposures can occur by drinking water or eating food that contain PFAS.
- Exposure is minor through skin contact when bathing, showering, or swimming.
- Mothers with PFAS in their bodies can transfer PFAS to their fetuses or nursing infants.
  - CDC advises that based on current science, the benefits of breastfeeding appear to outweigh the risks for infants exposed to PFAS in breastmilk.

## How Can People Reduce Exposure to PFAS in Drinking Water?

- Use an alternative water source for drinking, cooking, brushing teeth, and making baby formula.
- Certain certified filters can reduce PFAS in drinking water.

FOR MORE INFORMATION  
about certified PFAS filters:  
visit <http://www.nsf.org>  
or scan the QR code →



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### ACRONYMS & ABBREVIATIONS

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## What Are the Potential Health Effects?

- Scientists are still learning about how exposure to PFAS affects people's health.
- Studies indicate possible health effects could include:
  - Increased cholesterol levels.
  - Changes in liver enzymes.
  - Increased risk of high blood pressure and preeclampsia in pregnant women.
  - Immune system effects.
  - Small decrease in infant birth weight and changes in growth.
  - Increased risks of certain types of cancers (testicular and kidney).
- Levels of PFAS in drinking water do not predict health impacts.

## Are Blood Tests Available for PFAS?

- Blood testing for PFAS is available but is *not* a regular test offered by a doctor.
  - Blood test results can't tell you if PFAS exposure will cause current or future health problems.
  - Blood test results can't provide information on treatment.

**Chemical exposures do not always lead to health effects.**



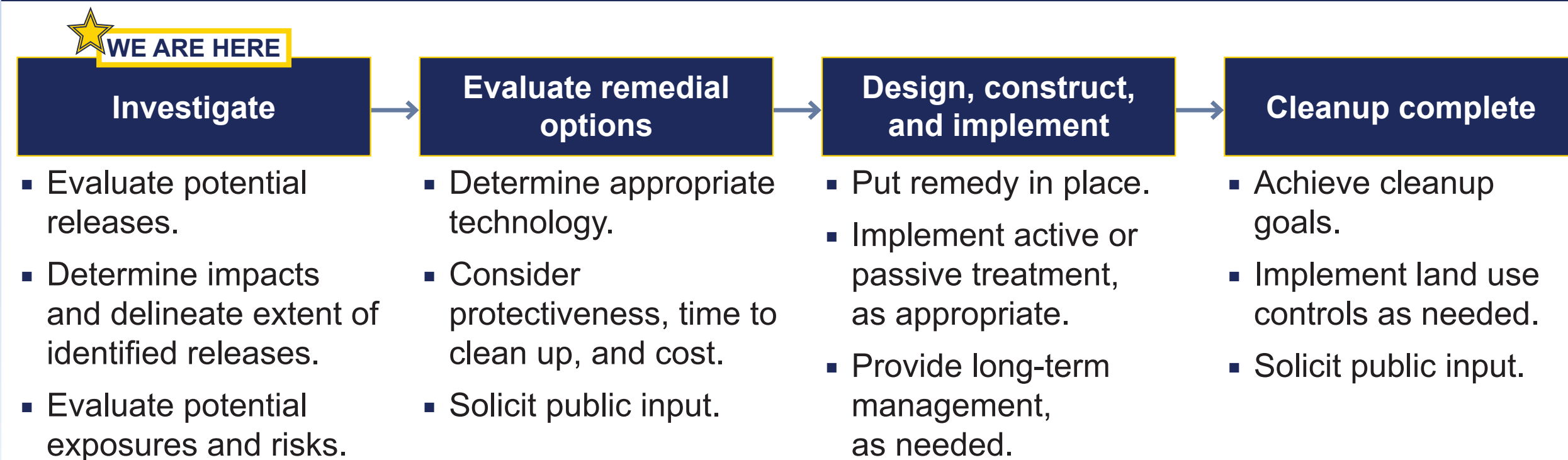


# Environmental Cleanup Process

## PRIORITY: Protect Human Health and the Environment

- The structured regulatory process, shown below, is being used to identify and clean up past environmental releases at NAS Whiting Field and its outlying landing fields.
- The Florida Department of Environmental Protection and EPA are working closely with the Navy and are providing oversight at every step of the process.
- Public input is welcomed throughout the process and is formally solicited at certain points.
- From beginning to end, this process will be lengthy.

## PFAS Environmental Cleanup Process



FOR MORE INFORMATION  
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EPA	U.S. Environmental Protection Agency
NAS	Naval Air Station
OLF	Outlying Landing Field
PFAS	per- and polyfluoroalkyl substances

PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonate
ppt	part(s) per trillion

**Note:** "Health advisory" refers to the EPA lifetime drinking water health advisory for PFOA and/or PFOS (70 ppt).





# NAS Whiting Field On-Base PFAS Drinking Water Investigation

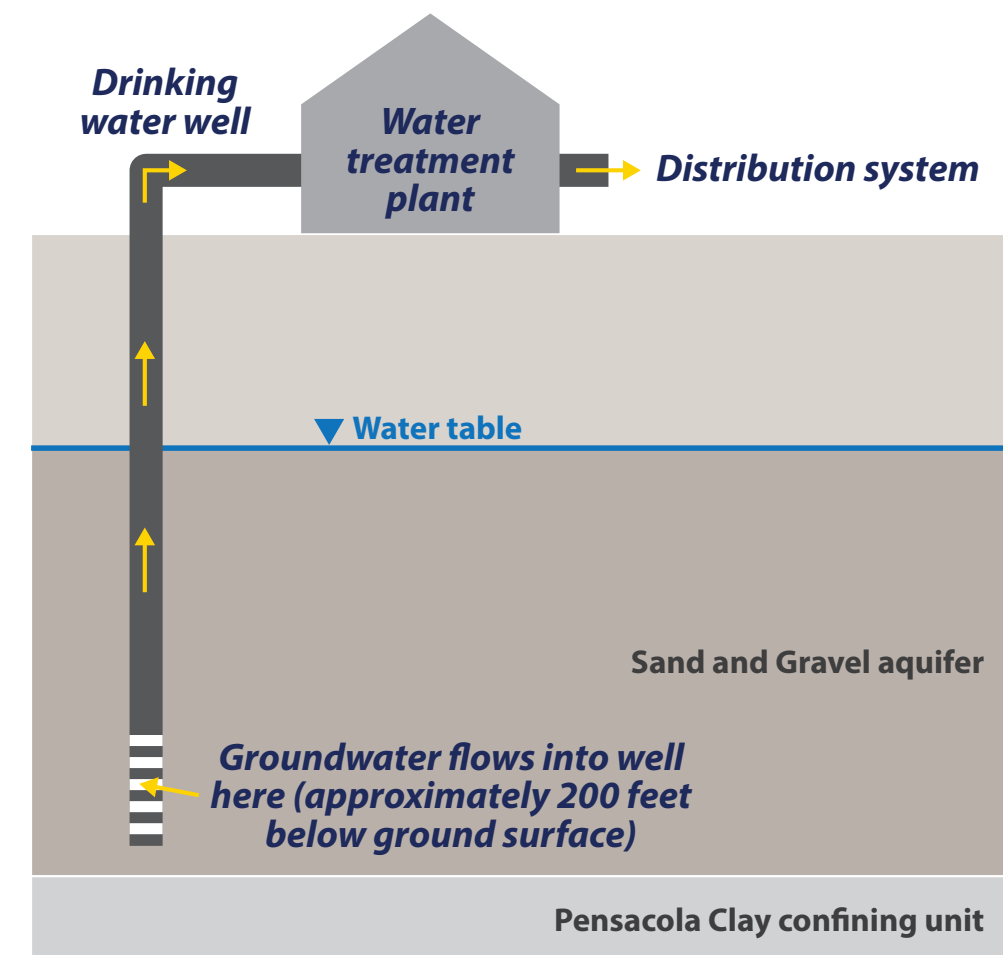
- Drinking water at NAS Whiting Field is supplied by three on-base wells.
- In 2016, the on-base water supply was tested for six different PFAS, and none were detected.
- In late 2020, NAS Whiting Field resampled the on-base drinking water, and PFOA and PFOS were detected above the health advisory.
- On-base residents and employees were notified, and an alternative drinking and cooking water source was provided until a long-term solution was implemented.

- The water filtration system was modified to remove PFAS.
- No PFAS have been detected above the health advisory in the treated drinking water.
- On-base water supplies will continue to be monitored.

FOR MORE INFORMATION  
about on-base drinking water results:  
visit <http://go.usa.gov/xASbN>  
or scan the QR code →



## NAS Whiting Field Water Distribution



FOR MORE INFORMATION  
visit <http://go.usa.gov/xAEQF>  
or scan the QR code →



### ACRONYMS & ABBREVIATIONS

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# Sign Up for Your Sampling Appointment

## Off-Base Drinking Water Well Sampling

- The Navy will be sampling drinking water wells in the sampling areas.
- Sampling is at no cost to you.
- Drinking water samples will be collected **Monday, June 13** through **Saturday, June 18, 2022**.
- Sampling appointments are available on these days **8 a.m.–5 p.m.**

*Additional times are available upon request*

- The property owner must give permission for sampling and is asked to complete the questionnaire.
- Sampling takes less than an hour.
- An adult must be present at the property during sampling.

## Sampling Process

- Samples will be collected by a team of experienced contractors:
  - Team will consist of two members.
  - The water sample will be collected as close to well as possible.
  - Water will run for 5 minutes prior to collection.
- Samples will be collected and analyzed according to EPA guidelines.

**The Navy will provide bottled water for cooking and drinking if PFOA and/or PFOS are above the EPA health advisory (70 ppt).**

FOR MORE INFORMATION  
visit <http://go.usa.gov/xAEQF>  
or scan the QR code →



### ACRONYMS & ABBREVIATIONS

EPA	U.S. Environmental Protection Agency	PFOA	perfluorooctanoic acid
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