

Status of Notifications to Agricultural Operations for Fiscal Year 2022



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APPENDIX

Status of Agricultural Operation Notifications

I. INTRODUCTION

Section 335(d) of the William M. Mac Thornberry National Defense Authorization Act (NDAA) for Fiscal Year (FY) 2021 (Public Law 116-283), requests the Secretary of Defense to provide an annual report on the Department of Defense's (DoD's) status of providing notifications to agricultural operations located within one mile down gradient of a Military Installation or National Guard facility where a "covered" per- and polyfluoroalkyl substances (PFAS)¹ (1) has been detected in groundwater on base; (2) has been hydrologically linked to a local agricultural or drinking water source; and (3) is known or suspected to be the result of a PFAS release at a Military Installation or National Guard facility located in the United States. This report covers the notifications sent to agricultural operations from April 1, 2021, through March 31, 2022.

II. BACKGROUND

PFAS is a national issue that requires national solutions. Under section 335(a) of the NDAA for FY 2021, DoD was required to provide one-time notifications to certain agricultural operations that alerted them to DoD PFAS sampling information. DoD worked in consultation with the U.S. Department of Agriculture to obtain names and addresses of agricultural operations near Military Installations or National Guard facilities. DoD then reviewed its data from the installations where we are conducting PFAS cleanup assessments to determine if on-installation groundwater could be hydrologically connected to down gradient agricultural operations within one mile of the installation. DoD was required to provide updated test results to agricultural operations that received a notice under section 335(a) and to submit an annual report to Congress under section 335(d). In order to increase transparency of data sharing, DoD extended the notification requirements in section 335(a), to groundwater sampling performed after section 335 the FY 2021 NDAA was enacted. See DoD's memorandum on *Agricultural Operations Notifications and Reporting Requirement* dated November 5, 2021.

III. STATUS OF AGRICULTURAL OPERATIONS NOTIFICATIONS

The Department notified agricultural operations consistent with the requirement in section 335 of the NDAA for FY 2021.

During the period of April 1, 2021, through March 31, 2022, the DoD Components have sent notifications to 1,442 identified agricultural operations pursuant to section 335 of the NDAA for FY 2021. The appendix provides the number and approximate locations of agricultural operations notified; the associated Military Installation or National Guard facility; and the covered PFAS and levels detected in groundwater on base. Since March 1, 2021, the Department has sent notifications to a total of 3,585 agricultural operations. The DoD Components also sent pertinent updated information to 155 previously notified agricultural operations in accordance with section 335(c). Providing these agricultural notifications does not

¹ "Covered PFAS" is defined as perfluorooctane sulfonate (PFOS) that has been detected in groundwater above 70 parts per trillion (ppt), individually or in combination with perfluorooctanoic acid (PFOA); and/or PFOA that has been detected in groundwater above 70 ppt, individually or in combination with PFOS; and/or perfluorobutanesulfonic acid that has been detected in groundwater above 40 parts per billion.

necessarily mean that PFAS is in the groundwater at the agricultural location or that cleanup is required.

IV. CONCLUSION

The DoD Components will continue to prioritize this effort and send additional notifications as agricultural operations are identified pursuant to section 335 of the NDAA for FY 2021.

Appendix: Status of Agricultural Operational Notifications

State	Installation	City	DoD Component	Installation Type	Number of Notifications Sent between April 1, 2021 and March 31, 2022 ²	PFOS Range Detected (ppt)	PFOA Range Detected (ppt)	PFBS Range Detected (ppb)
Alabama	Montgomery Regional Airport (Dannelly Field)	Montgomery	Air Force	National Guard	4	17 - 260	13 - 1,200	-
Arizona	Williams AFB	Mesa	Air Force	BRAC	24	70 - 2,440	70 - 322	-
Arizona	Luke AFB	Phoenix	Air Force	Active	22	93.4-710	72.9-105	-
California	Beale AFB	Beale	Air Force	Active	41	83-3,100	72-7,100	-
California	Castle AFB	Atwater	Air Force	BRAC	21	70 - 19,600	70 - 961	-
California	March Air Reserve Base	Riverside	Air Force	Active	41	76-60,000	75-9,400	-
California	Moffett Field	Sunnyvale	Air Force	National Guard	1	0.96 - 44	70 - 580	-
Colorado	Buckley AFB	Aurora	Air Force	Active	23	300-90,000	190-190,000	-
Delaware	New Castle	New Castle	Air Force	National Guard	2	326 - 12,000	42.1 - 3,950	-
Florida	JACKSONVILLE FL NAS	Jacksonville	Navy	Active	8	0.14 - 106,114	0.19 - 6,742.5	0.00008 - 0.00275
Florida	Avon Park Air Force Reserve	Avon Park	Air Force	Active	23	2,100-21,000	640-1,700	83 - 240
Georgia	Moody AFB	Valdosta	Air Force	Active	24	230-300,000	94-54,000	290
Georgia	Robins AFB	Warner Robins	Air Force	Active	1	75-250,000	72-52,000	-
Georgia	Savannah International Airport	Savannah	Air Force	National Guard	1	29 - 110,000	30 - 3,900	-
Idaho	Mountain Home AFB	Mountain Home	Air Force	Active	37	70-141	72-140	-
Indiana	Fort Wayne Municipal	Fort Wayne	Air Force	National Guard	8	53 - 110	16 - 44	-
Indiana	Grissom Air Reserve Base	Bunker Hill	Air Force	Active	58	920	190	-
Indiana	Grissom AFB	Bunker Hill	Air Force	BRAC	41	70.8 - 114,000	84.5 - 18,000	-
Kansas	Forbes Field	Topeka	Air Force	National Guard	3	27.7 - 2,930	ND - 8,100	-
Louisiana	England AFB	Alexandria	Air Force	BRAC	41	4.9 - 7,150,000	4.01 - 3,820,000	0.00995 - 1,530
Maine	Bangor International Airport	Bangor	Air Force	National Guard	1	98 - 11,700	96 - 2,420	-
Maine	Loring AFB	Limestone	Air Force	BRAC	29	76 - 8,770	115 - 811	-
Massachusetts	Westover Air Reserve Base	Springfield	Air Force	Active	8	290-140,000	160-270,000	-
Michigan	KI Sawyer AFB	Gwinn	Air Force	BRAC	7	87.8-728	70.9 to 57,900	-
Mississippi	MERIDIAN MS NAS	Meridian	Navy	Active	47	0.66 J - 125,000	ND - 22,608.77	ND - 2.717
Mississippi	Jackson	Jackson	Air Force	National Guard	3	22 - 440	21 - 88	-
Mississippi	Key Field	Meridian	Air Force	National Guard	2	26 - 67,000	44 - 4,100	-
Missouri	Richards-Gebaur AFB	Kansas City	Air Force	BRAC	5	4.9 to 12,800	13.1 to 3,460	-
Missouri	Rosecrans Memorial	St Joseph	Air Force	National Guard	2	8.3 - 34,000	2.5 - 5,100	-
Missouri	Whiteman AFB	Knob Noster	Air Force	Active	21	400-28,000	160-58,000	-
New Mexico	Cannon AFB	Clovis	Air Force	Active	11	85-25,000	71-2,800	-
New York	Griffiss AFB	Rome	Air Force	BRAC	15	149 - 60,700	74.5 - 1,100	-
New York	Niagara Falls Air Reserve Station	Niagara Falls	Air Force	Active	12	81-1,200,000	170-110,000	-
New York	Plattsburgh AFB	Plattsburgh	Air Force	BRAC	2	70.9 - 615,000	74.5 - 981,000	-
North Carolina	Seymour Johnson AFB	Goldsboro	Air Force	Active	65	72-300,000	75-100,000	-
North Dakota	Cavalier Air Force Station	Mountain	Air Force	Active	21	96-4,000	87-1,400	-
North Dakota	Grand Forks AFB	Grand Forks	Air Force	Active	75	86 - 35,000	88 - 40,000	-
North Dakota	Minot AFB	Minot	Air Force	Active	77	330-440,000	150-20,000	48-49
Ohio	Mansfield	Mansfield	Air Force	National Guard	8	11 - 640	0.55 - 2,200	-
Ohio	Rickenbacker	Columbus	Air Force	BRAC	33	135 - 14,400	114 - 45,800	-
Ohio	Springfield-Beckley Municipal	Springfield	Air Force	National Guard	22	83 - 2,400	17 - 4,800	-
Oklahoma	Tulsa International Airport	Tulsa	Air Force	National Guard	1	160 - 44,000	45 - 4,000	-
Oklahoma	Vance AFB/Keelman	Enid	Air Force	Active	39	1,100-290,000	160-40,000	-
Oklahoma	Will Rogers International Airport	Oklahoma City	Air Force	National Guard	6	61 - 10,000	9.9 - 3,300	-
South Carolina	McEntire Air Guard	Hopkins	Air Force	National Guard	10	38 - 9,500	2.1 - 550	-
South Carolina	Shaw AFB	Sumter	Air Force	Active	108	71-30,000	76-13,000	-
South Dakota	Ellsworth AFB	Rapid City	Air Force	Active	56	240-150,000	580-22,000	-
South Dakota	Joe Foss Field (Sioux Falls)	Sioux Falls	Air Force	National Guard	1	5.5 - 370,000	3.7 - 21,100	-
Tennessee	McGhee-Tyson	Louisville	Air Force	National Guard	4	160 - 4,300	9 - 630	-
Texas	Bergstrom AFB	Austin	Air Force	BRAC	8	434 to 2,660	23.3 to 2,260	-
Texas	Goodfellow AFB	San Angelo	Air Force	Active	73	106-28,200	87.6-628	0.106-0.986
Texas	Joint Base San Antonio - Lackland, Randolph, Ft Sam Houston, Camp Bullis	San Antonio	Air Force	Active	134	74-680,000	83-130,000	81

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Texas	Reese AFB	Lubbock	Air Force	BRAC	20	70 - 1,820	70 - 5,460	-
Virginia	OCEANA VA NAS	Virginia Beach	Navy	Active	63	ND - 49,300	ND - 10,110.11	ND - 2.79
Virginia	Richmond International Airport Byrd Field	Richmond	Air Force	National Guard	1	59 - 1,680	11.3 - 2,270	-
Washington	WHIDBEY IS WA NAS	Oak Harbor	Navy	Active	23	ND - 46,800	ND - 58,500	ND - 2.09
Washington	BREMERTON WA NAVBASE	Bremerton	Navy	Active	3	ND - 19.39	ND - 177.77	ND - 0.063
Wyoming	FE Warren AFB	Cheyenne	Air Force	Active	2	350-64,000	160-72,000	-
Total Notifications Sent:					1442			

ND - Non-detect

J - The reported result is an estimate. The value is less than the minimum calibration level but greater than the estimated detection limit.

Footnotes:

- 1: The agricultural operations notified are located within one mile down gradient of a Military Installation or National Guard facility where covered per- and polyfluoroalkyl substances (PFAS) (1) has been detected in groundwater on base; (2) has been hydrologically linked to a local agricultural or drinking water source; and (3) is known or suspected to be the result of a PFAS release at a Military Installation or National Guard facility located in the United States.
- 2: Section 335 of the NDAA for FY 2021 defines "covered PFAS" as perfluorooctane sulfonate (PFOS) that has been detected in groundwater above 70 parts per trillion (ppt), individually or in combination with perfluorooctanoic acid (PFOA); and/or PFOA that has been detected in groundwater above 70 ppt, individually or in combination with PFOS; and/or perfluorobutanesulfonic acid (PFBS) that has been detected in groundwater above 40 parts per billion.