# SITE INSPECTION REPORT FOR PER- AND POLYFLUOROALKYL SUBSTANCES AT FORMER FORT CHAFFEE, ARKANSAS

**Prepared** for:



ODCS, G-9, ISE BRAC

Final January 2024

# SITE INSPECTION REPORT FOR PER- AND POLYFLUOROALKYL SUBSTANCES AT FORMER FORT CHAFFEE, ARKANSAS

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Prepared for: ODCS, G-9, ISE BRAC 600 Army Pentagon Washington, DC 20310

**ARS Aleut Remediation** 

663 Emory Valley Rd Oak Ridge, TN 37830

**Prepared by:** 

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AAR – Project Manager

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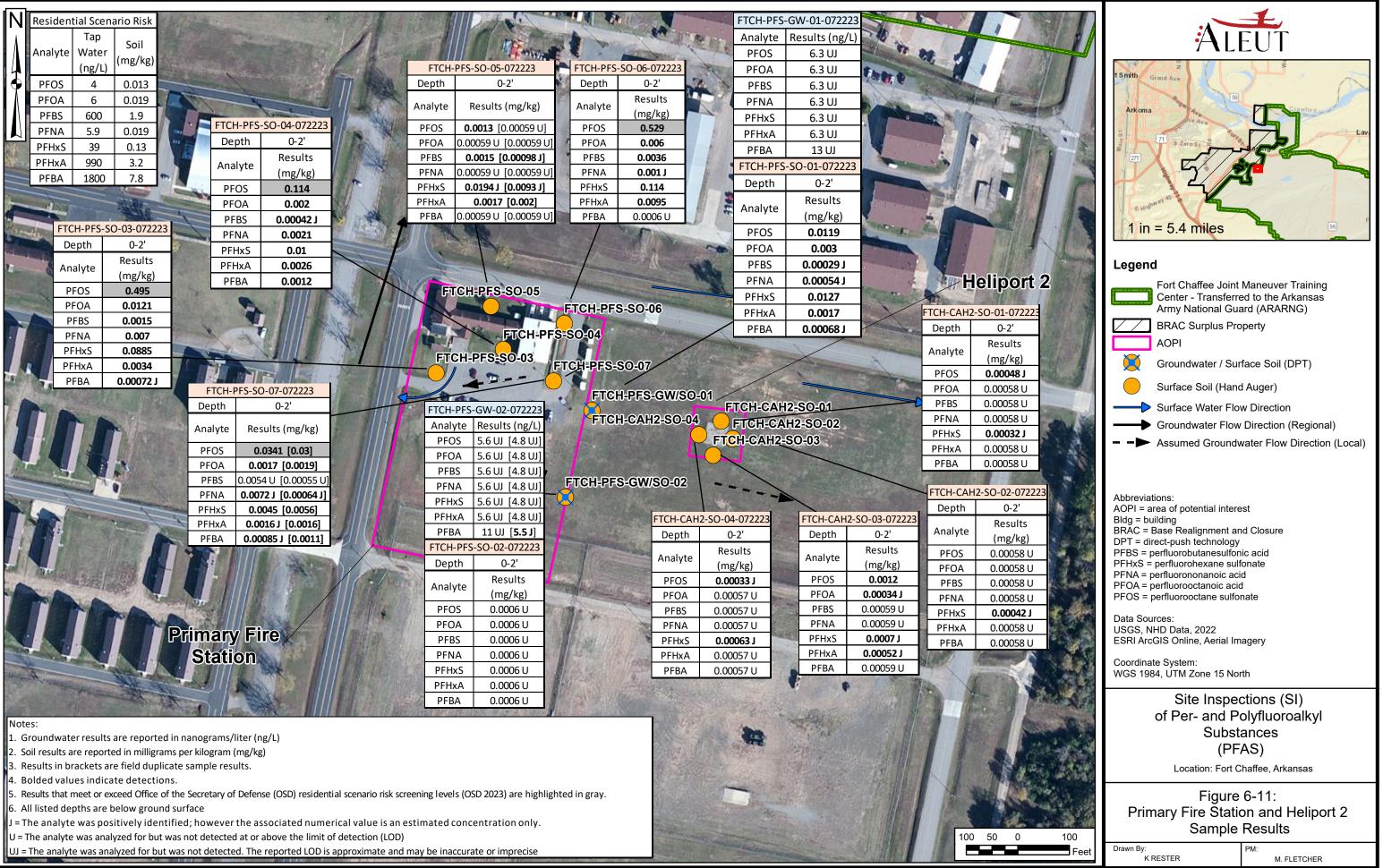
Blake Smotherman

AAR – Deputy Director – Environmental Services Group

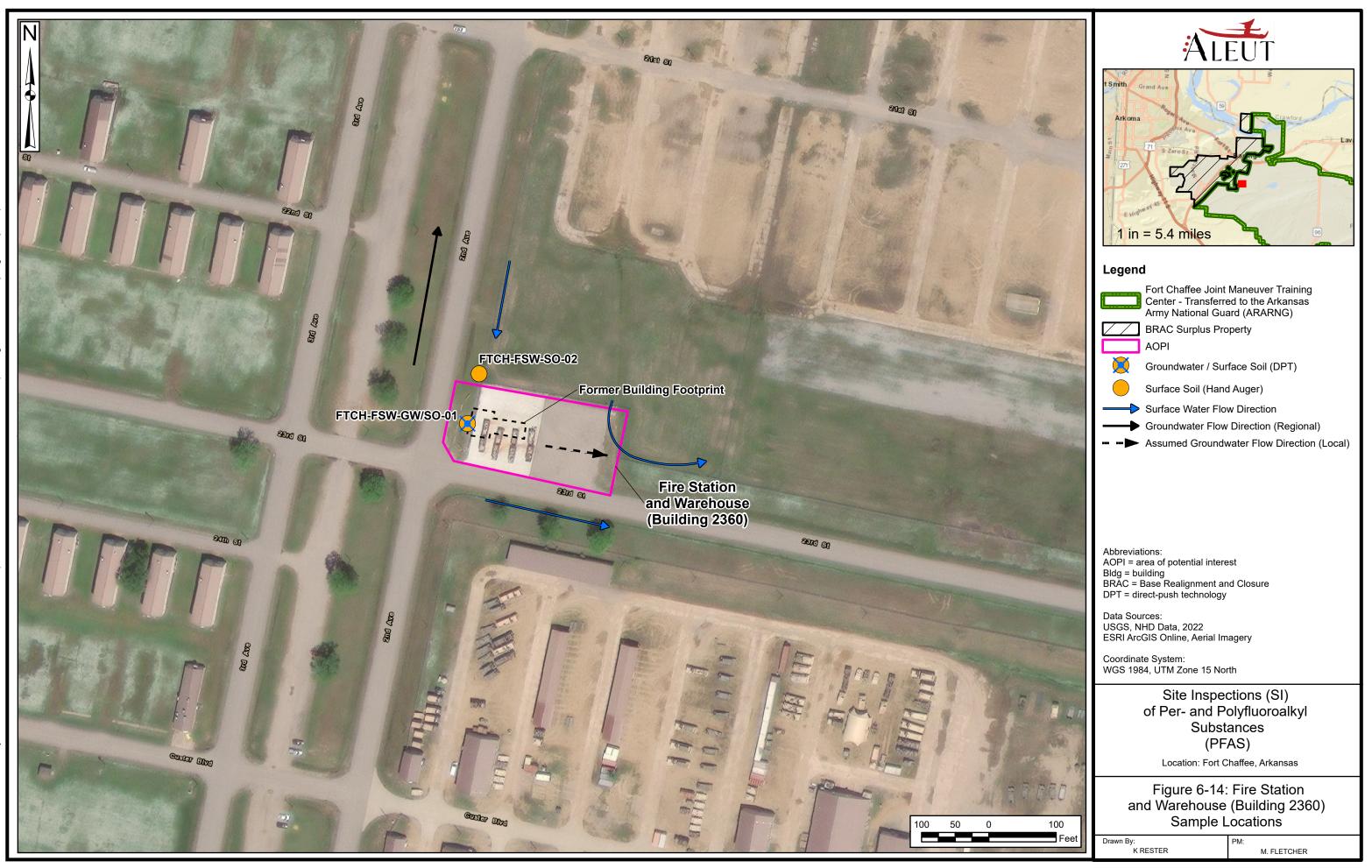
Contract Number W912BV20D0037 Delivery Order Number W912BV21F0060

January 2024

FIGURES

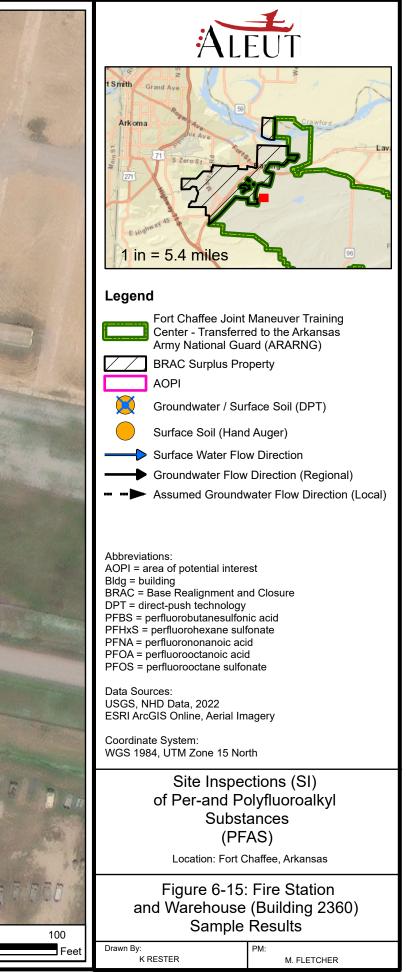


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Residential Scenario Risk           Analyte         Soil           Analyte         Soil           PFOA         6           PFNA         5.9           PFNA         90           PFBA         1800           PFNA         900           PFNA         0.0019           PFNA         900           PFBA         1800           PFNA         0.005 U           PFNA         0.0006 U           PFBA         0.0006 U	Sin a
Analyte Results (ng/L)	
PFOS 5.3 UJ Former Building Footprint	
PFOA 5.3 UJ	
PFBS 5.3 UJ FTCH-FSW-GW/SO-01	
PFNA 5.3 UJ	
PFHxS 5.3 UJ	
PFHxA 5.3 UJ	
PFBA 17.6 J Fire Station	
and Warehouse	
Depth 0-2' (Building 2360)	
Analyte Results (mg/kg) PFOS 0.00039 J	2010 33
PFOA 0.00054 U	
PFBS 0.00054 U	
PFNA 0.00054 U	
PFHxS         0.00054 U           PFHxA         0.00054 U           PFBA         0.00054 U	and the second sec
	P
	E En
Notes:	
1. Groundwater results are reported in nanograms/liter (ng/L)	

- Soil results are reported in milligrams per kilogram (mg/kg)
   Results in brackets are field duplicate sample results.
- 4. Bolded values indicate detections.
- 5. Results that meet or exceed Office of the Secretary of Defense (OSD) residential scenario risk screening levels (OSD 2023) are highlighted in gray.
- 6. All listed depths are below ground surface
- J = The analyte was positively identified; however the associated numerical value is an estimated concentration only.
- U = The analyte was analyzed for but was not detected at or above the limit of detection (LOD)
- UJ = The analyte was analyzed for but was not detected. The reported LOD is approximate and may be inaccurate or imprecise

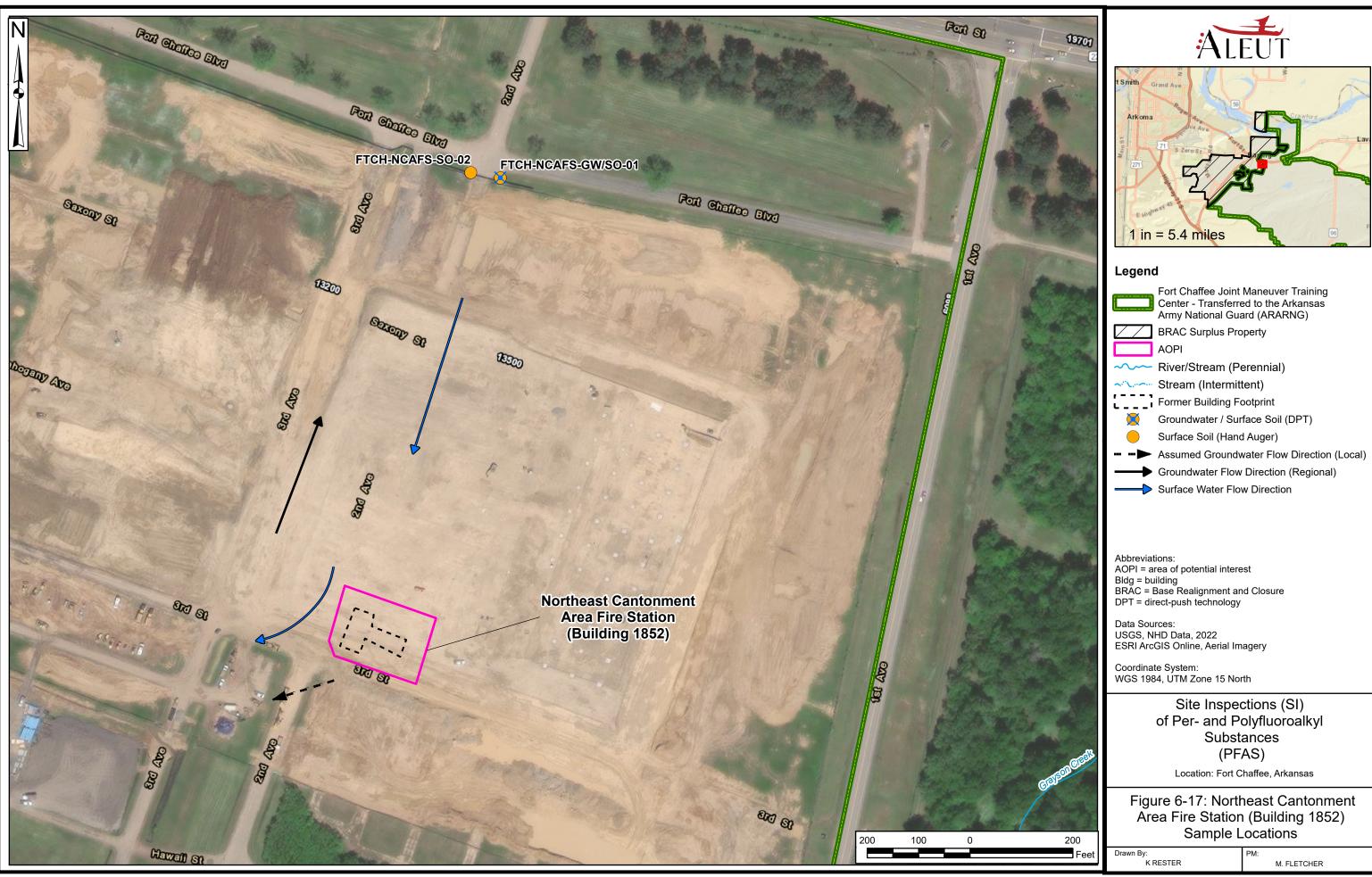


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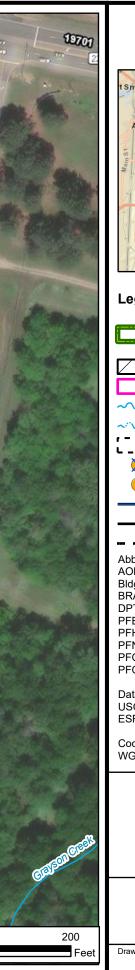


BRAC Surplus Property         AOPI         River/Stream (Perennial)         Stream (Intermittent)         Former Building Footprint         Groundwater / Surface Soil (DPT)         Surface Soil (Hand Auger)         Assumed Groundwater Flow Direction (Local)         Groundwater Flow Direction (Regional)
<ul> <li>River/Stream (Perennial)</li> <li>Stream (Intermittent)</li> <li>Former Building Footprint</li> <li>Groundwater / Surface Soil (DPT)</li> <li>Surface Soil (Hand Auger)</li> <li>Assumed Groundwater Flow Direction (Local)</li> </ul>
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<ul> <li>Surface Soil (Hand Auger)</li> <li>Assumed Groundwater Flow Direction (Local)</li> </ul>
> Assumed Groundwater Flow Direction (Local)
Groundwater Flow Direction (Regional)
Surface Water Flow Direction

N Residential Scenario Risk	Part St	
Tap     Soil       Analyte     Soil       (ng/l)     (ng/kg)		
PFOS 4 0.013		
PPOA 6 0.019		
PFBS         600         1.9           PFNA         5.9         0.019		
FTCH-NCAFS-SO-02	CAFS-GW/SO-01	
PFBA         1800         7.8           Strong         FTCH-NCAFS-SO-02-080823         Strong           Denth         0.2         Strong	Fort Chattee Blvd	
FTCH-NCAFS-SO-02-080823		
Depth     0-2'       Analyte     Results (mg/kg)	FTCH-NCAFS-GW-01-081323	
PFOS 0.0093	FTCH-NCAFS-GW-01-081323     PEOS       Analyte     Results (ng/L)       PFOS     4.5 UJ [4.8 U]	
PFOA 0.00057 U		
PFBS         0.00057 U           PFNA         0.00057 U	PFOA         4.5 UJ         [4.8 U]           PFBS         4.5 UJ         [ <b>4.1 J</b> ]	
PFHxS 0.00057 U	PFNA 4.5 UJ [4.8 U]	
	PFHxS         4.5 UJ [6.4 J]	
A A A A A A A A A A A A A A A A A A A	PFHxA         4.5 UJ [15]           PFBA         9.1 UJ [9.2 J]	
	FTCH-NCAFS-SO-01-080923	
84	Depth 0-2'	
	Analyte Results (mg/kg)	
F .	PFOS         0.0024           PFOA         0.00052 U	
	PFBS 0.00052 U	
	PFNA 0.00052 U	
	PFHxS         0.00037 J           PFHxA         0.00052 U	
	PFBA 0.00052 U	
The state of the second	Northeast Cantonment	
Area Fire Station		
	(Building 1852)	
State of the state	8	
A		
Notes:		

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- 2. Soil results are reported in milligrams per kilogram (mg/kg)
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## Legend

Fort Chaffee Joint Maneuver Training Center - Transferred to the Arkansas Army National Guard (ARARNG)		
BRAC Surplus Property		
·─── River/Stream (Pe	erennial)	
∽∹∿∽ Stream (Intermitt	tent)	
Former Building Fo	potprint	
🧕 Groundwater / Sur	face Soil (DPT)	
Surface Soil (Hand	l Auger)	
Surface Water Flow	w Direction	
Groundwater Flow Direction (Regional)		
> Assumed Groundwater Flow Direction (Local)		
Abbreviations: AOPI = area of potential interest Bldg = building BRAC = Base Realignment and Closure DPT = direct-push technology PFBS = perfluorobutanesulfonic acid PFHxS = perfluorohexane sulfonate PFNA = perfluorononanoic acid PFOA = perfluorooctanoic acid PFOS = perfluorooctane sulfonate		
Data Sources: USGS, NHD Data, 2022 ESRI ArcGIS Online, Aerial Imagery		
Coordinate System: WGS 1984, UTM Zone 15 North		
Site Inspections (SI) of Per- and Polyfluoroalkyl Substances (PFAS) Location: Fort Chaffee, Arkansas		
Figure 6-18: Northeast Cantonment Area Fire Station (Building 1852) Sample Results		
Drawn By: K RESTER	PM: M. FLETCHER	

page FIGURE-22

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Date: 12/13/2023