

Paine Field Fire Training Pit PFAS



SHARP Report — Part 1 of 2

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• SHARP first SHARP		v2024.04.29	Ecology Info	
• SHARP rating	Medium		ERTS	722620; 731784
• SHARP date	09/25/2025		CSID	16912
• EJFlagged?	✓ – No Override		FSID	49626114
• LD confidence level	medium		VCP	None
• Cleanup milestone	remedial investigation		UST ID	None
• SHARPster	David Unruh		LUST ID	None

This section is blank if this is the first SHARP

SHARP Media	Scores	Confidence	Additional Factors	
Indoor air	D4	high	multiple chemical types	⊘
Groundwater	C2	medium	risk to off-site people	✓
Surface water	B2	medium	climate change impacts	✓
Sediment	A4	medium	plant/animal tissue data	⊘
Soil	B1	high		

Location and land use info

3220 100th St SW, Everett, Snohomish County, 98204

Primary parcel 28042200201400

Land use transportation

Responsible unit NWRO

Sources reviewed

GeoEngineers, Data Gaps Report, October 9, 2024

Ecology, Initial Investigation Field Report, Paine Field Fire Training Pit PFAS, July 19, 2023

Shannon & Wilson, Data Report, Former Fire Training Pit, May 1, 2023

Primary census tract	Associated census tracts
53061041901	53061042006

Local demographics comments

no comments

Source/source area description

The releases that make up the Paine Field Fire Training Pit PFAS site include the per- and polyfluoroalkyl substances (PFAS) perfluorooctanoic acid (PFOA), perfluorooctane sulfonic acid (PFOS), perfluorononanoic acid (PFNA), perfluorohexane sulfonic acid (PFHxS), and perfluorobutane sulfonic acid (PFBS). These releases affect soil, groundwater, and surface water at the site.

Soil comments

In addition to soil at the site, solids in catch basins were also analyzed for PFAS, and exceeded preliminary cleanup levels.

Groundwater comments

Further characterization of the extent of contaminated groundwater is needed. Characterization work to date at the Site has identified groundwater seeps which empty into a stormwater detention pond on the west side of the site which drains to Big Gulch Creek off-property to the west.

Surface water comments

Surface water contaminated above the preliminary cleanup levels at the Site has been identified in wetlands to the north and south of the fire training pit, and in the stormwater detention pond to the east. No samples have been collected from Big Gulch Creek to the west.

Sediment comments

Sediment samples collected at the Site were gathered from wetlands located on airport property. No off-site sediment samples have been collected.

Indoor air comments

Contamination at the site does not include chemical known to cause a risk to indoor air.

Additional factors comments

no comments

Site history

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The site was formerly used for fire fighting training and calibration activities. Training exercises conducted by Paine Field and local fire departments involved filling a pit with flammable materials like petroleum, igniting the materials, and extinguishing the fires with fire suppressants including aqueous film-forming foam (AFFF), known to contain PFAS. Fire truck calibration and Federal Aviation Administration (FAA) compliance testing were completed by spraying AFFF directly to the ground near the fire pit.

Investigations to determine the nature and extent of PFAS contamination at the Site began in 2018. Soil, groundwater, and surface water samples collected in the vicinity of the fire training pit indicated that all these media contained PFAS above the relevant cleanup levels. Further investigations in 2024 and 2025 helped to refine the extent of PFAS contamination in soil and groundwater.

Overflow - Site contamination and cleanup history

Additional parcels affected: 28042200201100, 28042200201400, 28042200203200, 248042200202900, 28042200201200

Paine Field Fire Training Pit PFAS

16912 Paine Field Fire Training Pit PFAS 20250925

First SHARP

SHARP rating — Medium

SHARP Report — Part 2 of 2

Conceptual site model

09/25/2025



Assessment scores by environmental medium

