



**Former Fort Ord
Monterey County
California**

**Per- and Polyfluoroalkyl Substances (PFAS)
Update**

February 2024

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Ahtna

Definitions

AFFF – aqueous film-forming foam

Aquifer – a body of rock or soil that is sufficiently permeable for groundwater to flow and serve as a water source

DoD – Department of Defense

FAAF – Fritzsche Army Airfield

FTA – fire training area

Groundwater – all water under the ground, not water on the surface (rivers, lakes, etc.)

OU – Operable Unit, discrete portion of remedial response that manages migration, or eliminates or mitigates a pathway of exposure.

PA – Preliminary Assessment

PFAS – per- and polyfluoroalkyl substances

PFOS – perfluorooctane sulfonate

PFOA – perfluorooctanoic acid

SI – Site Inspection

STP – sewage treatment plant

USEPA – U.S. Environmental Protection Agency

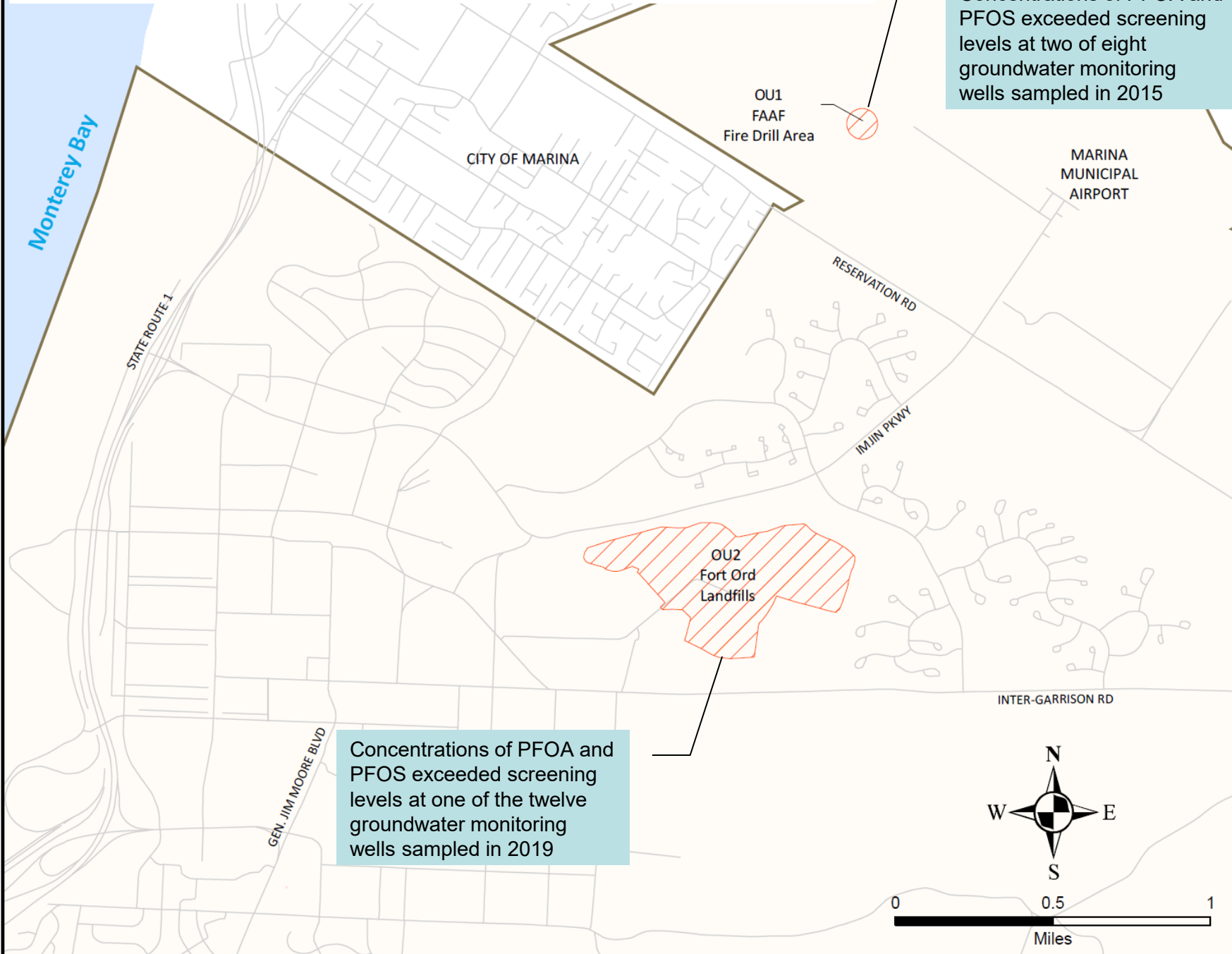


PFAS Background

- Resistant to heat, water, and oil originally developed in the 1930s.
- Included in many consumer and industrial products by the 1950s
- 1970s – DoD began using Aqueous Film-Forming Foam (AFFF) that contained PFAS because it quickly extinguishes petroleum-based fires.
- Found in people, the environment, and wildlife and do not break down easily.
- Perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) – historically the most widely-used throughout the United States.
- DoD and USEPA have established screening levels for eight PFAS, including PFOA and PFOS, in drinking water and soil.
<https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables>.
- Screening levels are used when a potential site is initially investigated to determine if potentially significant levels of contamination are present to warrant further investigation.



Previous Army PFAS Investigations at the former Fort Ord

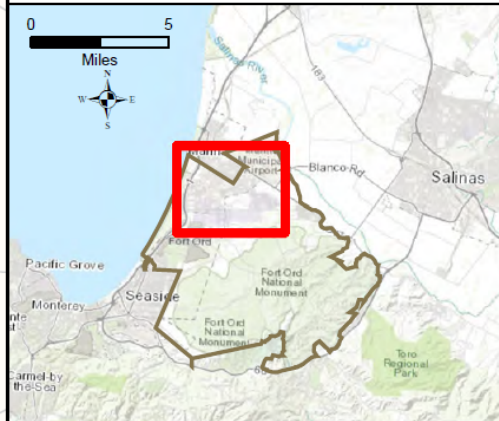


EXPLANATION

- PFAS Investigation Sites
- Former Fort Ord boundary
- Roads

ACRONYMS/ABBREVIATIONS:

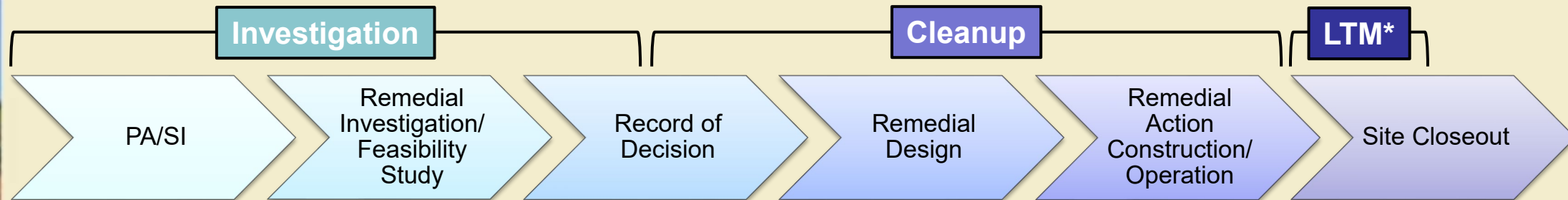
- OU1 = Operable Unit 1
- OU2 = Operable Unit 2
- FAAF = Fritzsche Army Airfield (Marina Municipal Airport)



SITE LOCATION MAP
Former Fort Ord, California

PFAS Preliminary Assessment/Site Inspection (PA/SI) at the former Fort Ord

The Army follows the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process to fully investigate releases, prioritize responses, and determine appropriate cleanup actions based on risk.



* LTM = Long-Term Management

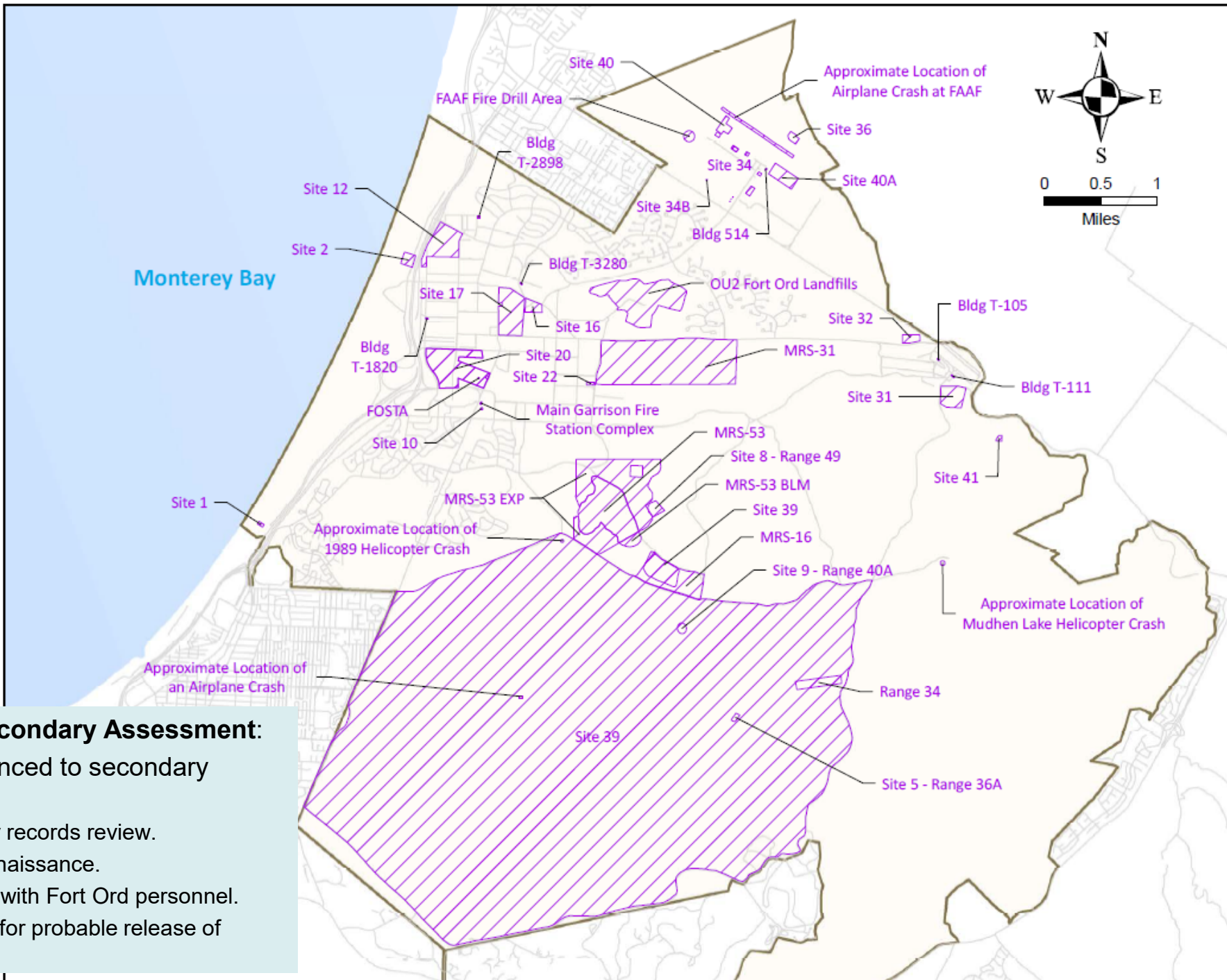
- In 2022, the Army reviewed historical activities at former Fort Ord sites for potential releases of PFAS in a Preliminary Assessment (PA).
- PA Narrative Report available at https://docs.fortordcleanup.com/ar_pdfs/AR-BW-2904B//BW-2904B.pdf.
- Results indicate limited historical use of PFAS-containing material.
- In 2022-2023, the Army conducted further investigation in a Site Inspection (SI).
- SI Narrative Report available at https://docs.fortordcleanup.com/ar_pdfs/AR-BW-2942A//BW-2942A.pdf

PFAS PA Site Assessment Process

PA Primary Assessment: review of historical records to determine if uses listed below occurred while Fort Ord was still an active Army facility; 103 sites were evaluated.

- Fire training areas (FTAs)
- AFFF storage locations (e.g., fire stations)
- Aircraft crash sites where AFFF may have been applied for fire control
- Aviation hangars and other buildings or fuel storage areas where AFFF was used in the fire suppression system and where a release may have occurred
- Other aviation assets (runways, fuel farms, defueling areas) where fuel- or petroleum-based fires may have occurred and AFFF may have been applied
- Landfills and waste disposal areas where PFAS-containing materials may have been disposed
- Wastewater treatment plants that may have received liquid effluents from facilities that used or disposed of PFAS
- AFFF firefighting equipment testing and washout discharge locations

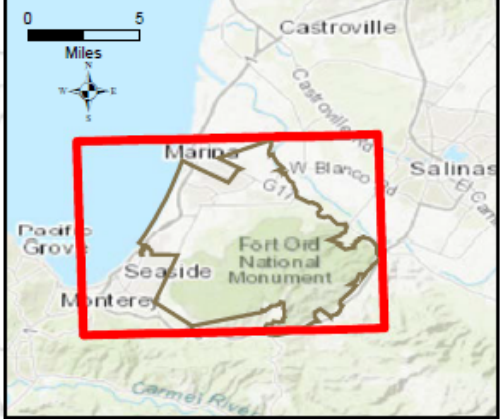




EXPLANATION

- Secondary Assessment Sites
- Former Fort Ord Boundary
- Roads

NOTE:
 FAAF = Fritzsche Army Airfield (Marina Municipal Airport)
 OU2 = Operable Unit 2
 FOSTA = Fort Ord Soil Treatment Area
 Main Garrison Fire Station Complex = Bldgs 4400, 4401, and 5-4403



PFAS PA Secondary Assessment:

42 sites advanced to secondary assessment.

- Secondary records review.
- Site reconnaissance.
- Interviews with Fort Ord personnel.
- Evaluated for probable release of PFAS.

SECONDARY ASSESSMENT SITES
 PFAS PA Narrative Report
 Former Fort Ord, California




PFAS PA Tertiary Assessment:

Ten sites advanced to tertiary assessment to determine:

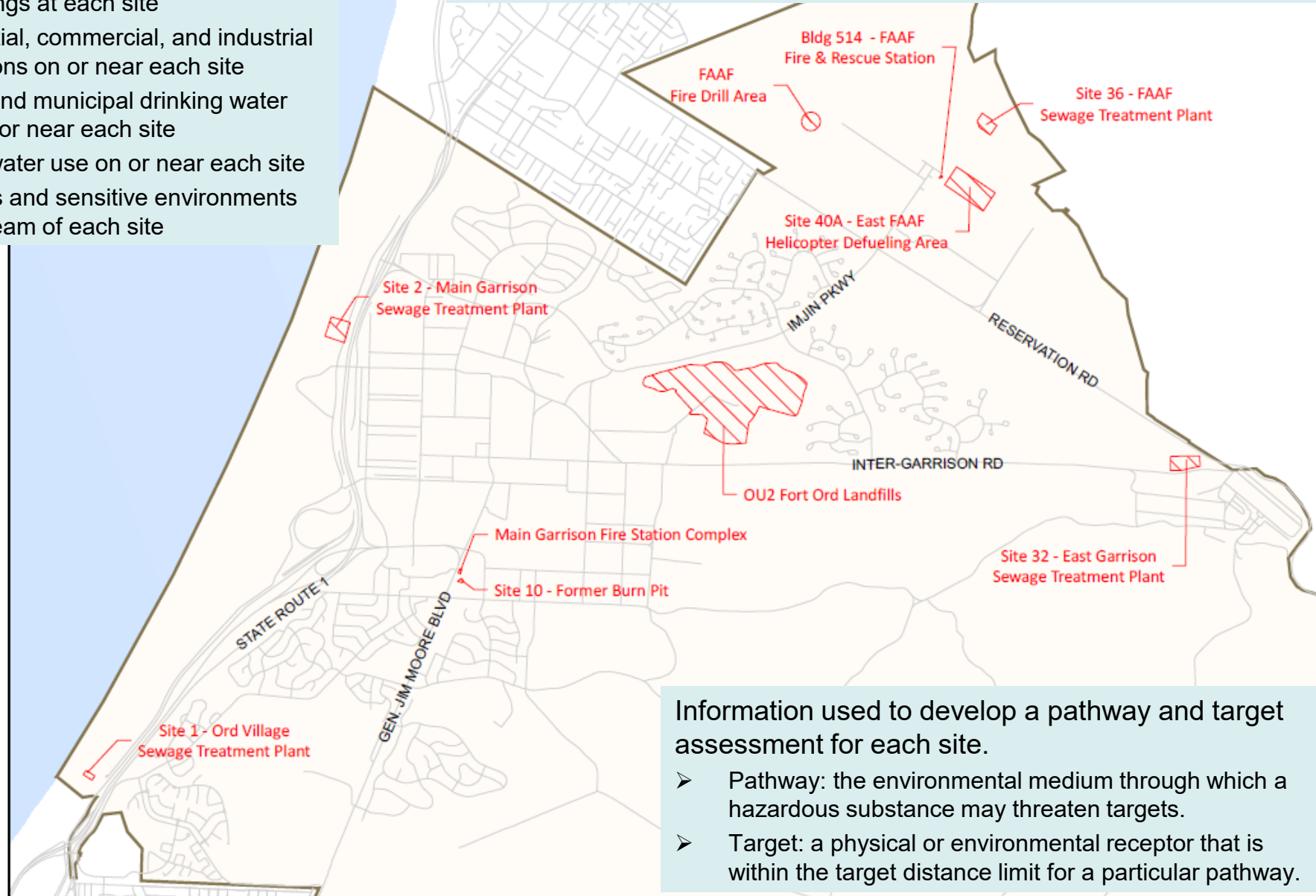
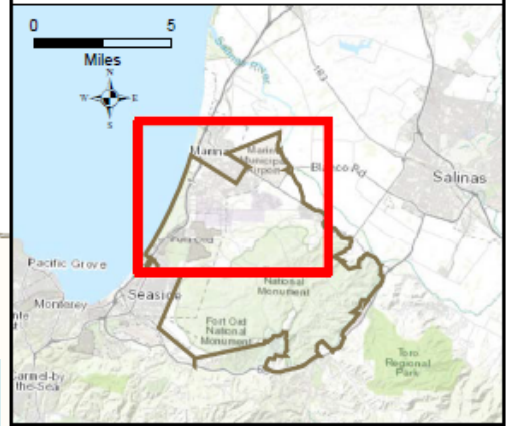
- Geology, hydrogeology, hydrology, and soil settings at each site
- Residential, commercial, and industrial populations on or near each site
- Private and municipal drinking water wells on or near each site
- Groundwater use on or near each site
- Fisheries and sensitive environments downstream of each site

Marina Coast Water District supplies drinking water to the former Fort Ord and tests regularly – **drinking water meets all state and federal requirements.** Consumer confidence reports are available at: https://www.mcwd.org/docs/ccr/2022/mcwd_ccr_2022.pdf

EXPLANATION

-  Tertiary Assessment Site
-  Former Fort Ord Boundary
-  Roads

NOTE:
 OU2 = Operable Unit 2
 FAAF = Fritzsche Army Airfield (Marina Municipal Airport)
 Main Garrison Fire Station Complex = Bldgs 4400, 4401, and S-4403



Information used to develop a pathway and target assessment for each site.

- Pathway: the environmental medium through which a hazardous substance may threaten targets.
- Target: a physical or environmental receptor that is within the target distance limit for a particular pathway.

TERTIARY ASSESSMENT SITES
 PFAS PA Narrative Report
 Former Fort Ord, California

PFAS PA/SI at the former Fort Ord

SI Investigation:

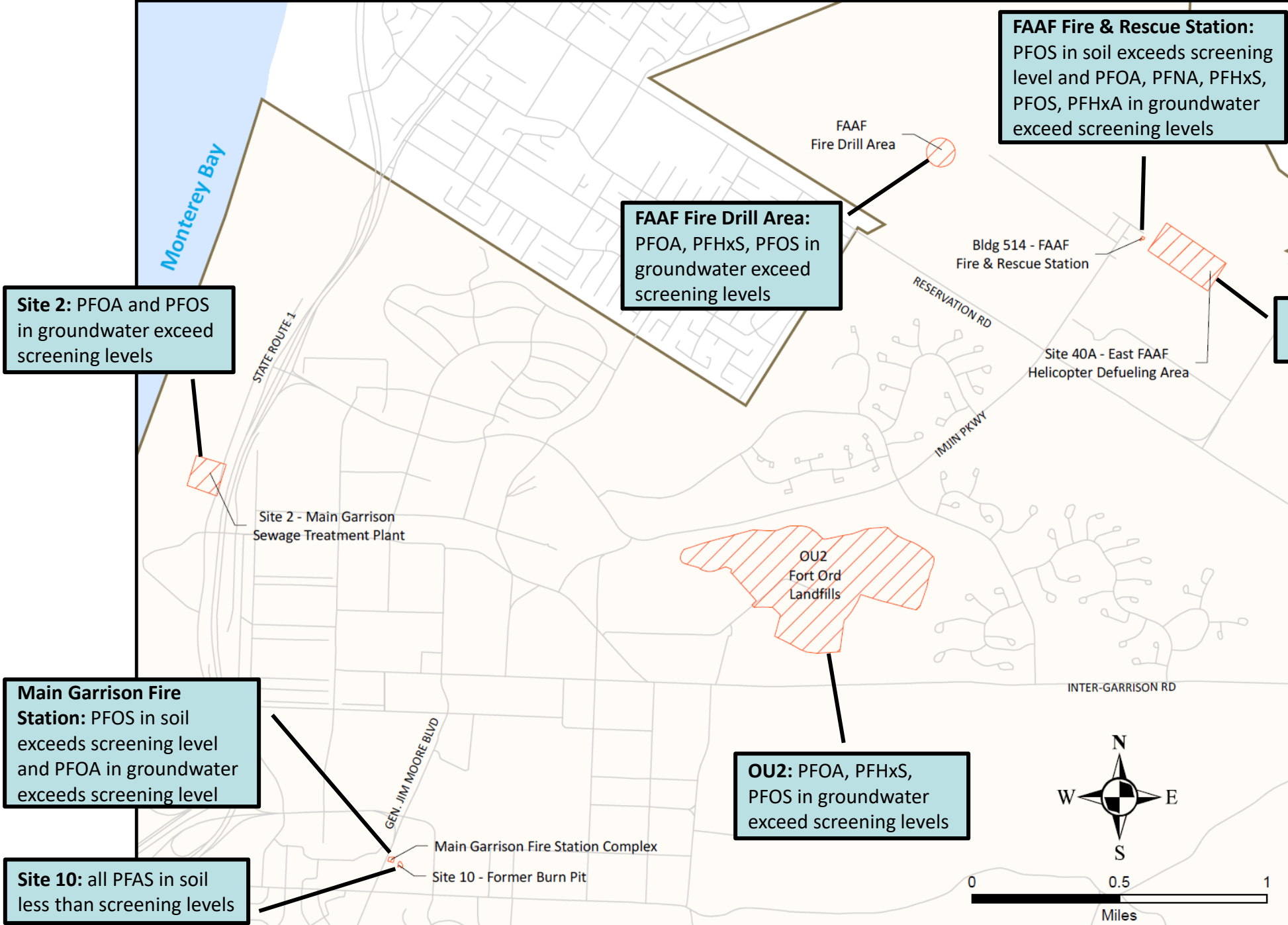
Seven sites identified in the PA Narrative Report as warranting further investigation advanced to the SI:

- Site 2: Main Garrison Sewage Treatment Plant (STP)
- Site 10: Former Burn Pit
- Site 40A: East FAAF Helicopter Defueling Area
- FAAF Fire & Rescue Station
- Main Garrison Fire Station
- FAAF Fire Drill Area
- OU2: Fort Ord Landfills

The SI:

- Determines whether PFAS are present in soil and groundwater by collecting data from sites where probable PFAS releases occurred.
- Is not a study of the full extent of contamination at a site or a risk assessment.

If SI indicates a release occurred, additional investigation may be conducted to quantify the nature and extent of contamination.

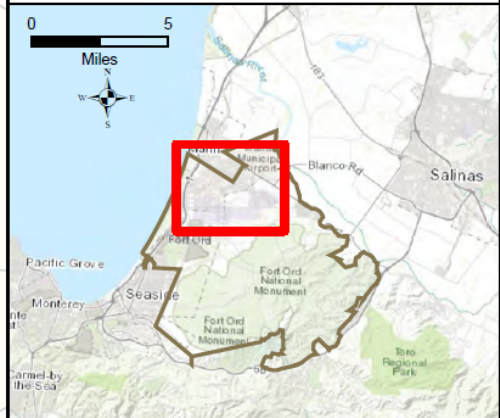


EXPLANATION

- SI Sites
- Former Fort Ord boundary
- Roads

NOTES:
Main Garrison Fire Station Complex = Bldgs 4400, 4401, and S-4403

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SITE LOCATION MAP
PFAS Site Inspection Narrative Report
Former Fort Ord, California

For Additional Information

Visit the Army's website at:
www.fortordcleanup.com

Visit the Fort Ord Administrative Record at:
Building 4463 Gigling Road, Room 101
Ord Military Community
Seaside CA 93955
(831) 393-9693
adminrecord@fortordcleanup.com

Visit the MCWD website at:

www.mcwd.org

2022 Consumer Confidence Report is available at:

https://www.mcwd.org/docs/ccr/2022/mcwd_ccr_2022.pdf

