



Army National Guard

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Activities

at

Camp Grayling, Michigan

5 June 2018





Who Is Involved?

- Michigan Army National Guard (MIARNG)
- ARNG – Installation and Environment Division (IED), Cleanup & Restoration Branch
- US Army Corps of Engineers
- Michigan Department of Environmental Quality (MDEQ), Remediation & Redevelopment Division
- AECOM Technical Services, Inc. (Germantown, MD)

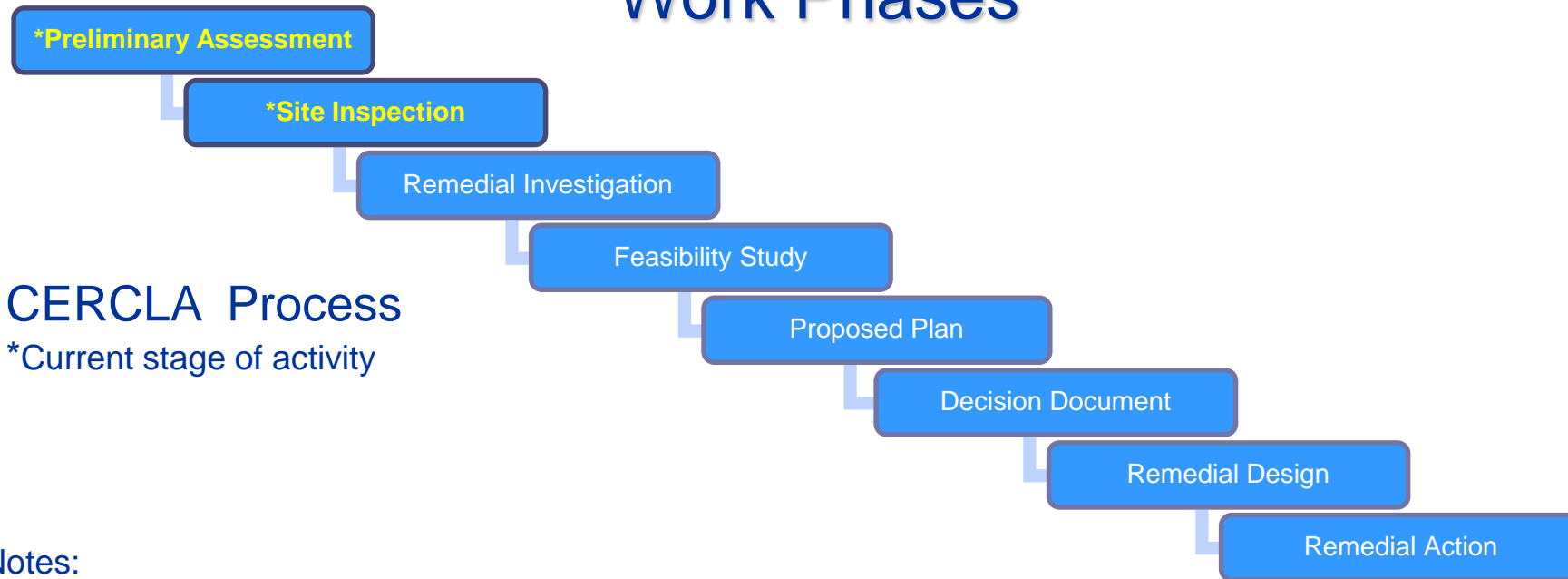
- Restoration Advisory Board: Formal public avenue for input into CERCLA process





ARNG Preliminary Assessment (PA)/ Site Inspection (SI) Overview

Work Phases



CERCLA Process

*Current stage of activity

Notes:

- An interim removal action can be conducted or a No Further Action determination can be made at any phase
- Restoration Advisory Board is typically solicited at RI/FS phase



CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act



Grayling Army Air Field (GAAF) PA Findings

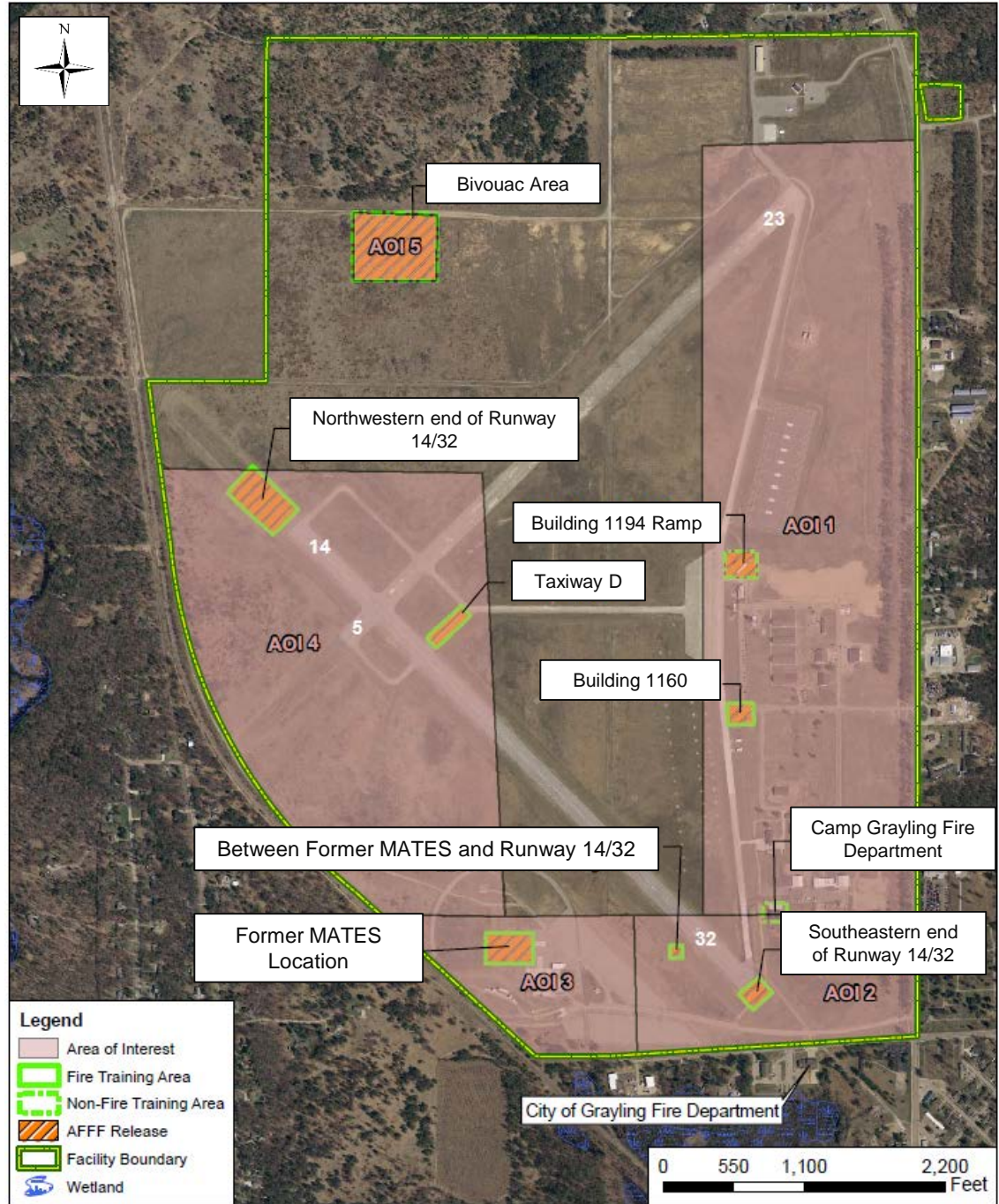
- Reviewed available data and conducted a 3-day site visit February 27-March 1, 2018
- Interviewed current and former Camp Grayling personnel
 - Environmental staff
 - Former firefighting personnel
 - Grayling City Fire Department Chief
 - Michigan Department of Natural Resources personnel
- Completed visual inspections at Areas of Interest and documented with photographs
- Areas of Interest -“Fire Training Areas” and “Non-Fire Training Areas”
- Final Preliminary Assessment Report becomes part of the Administrative Record that will be available to the public





Overall GAAF PA Findings & Areas of Interest (AOI)

Notes: Aqueous Film Forming Foam (AFFF) was used extensively by the military to train for and fight aircraft fires.





SI Objectives

(Sampling)

- Primary Objectives
 - Confirm the presence/ absence of a release at each potential AOI
 - Gather data to better understand groundwater flow direction(s)
- Additional Objectives
 - Presence has been confirmed at the GAAF boundary
 - Sampling of drinking water is on-going through MDEQ
 - Check for alternate contamination sources--none known at GAAF





GAAF Conceptual Site Model

Comparison of AOIs to MDEQ Perfluorooctanesulfonic Acid (PFOS) and Perfluorooctanoic Acid (PFOA) Heat Map

Legend

PFOA + PFOS, ppt

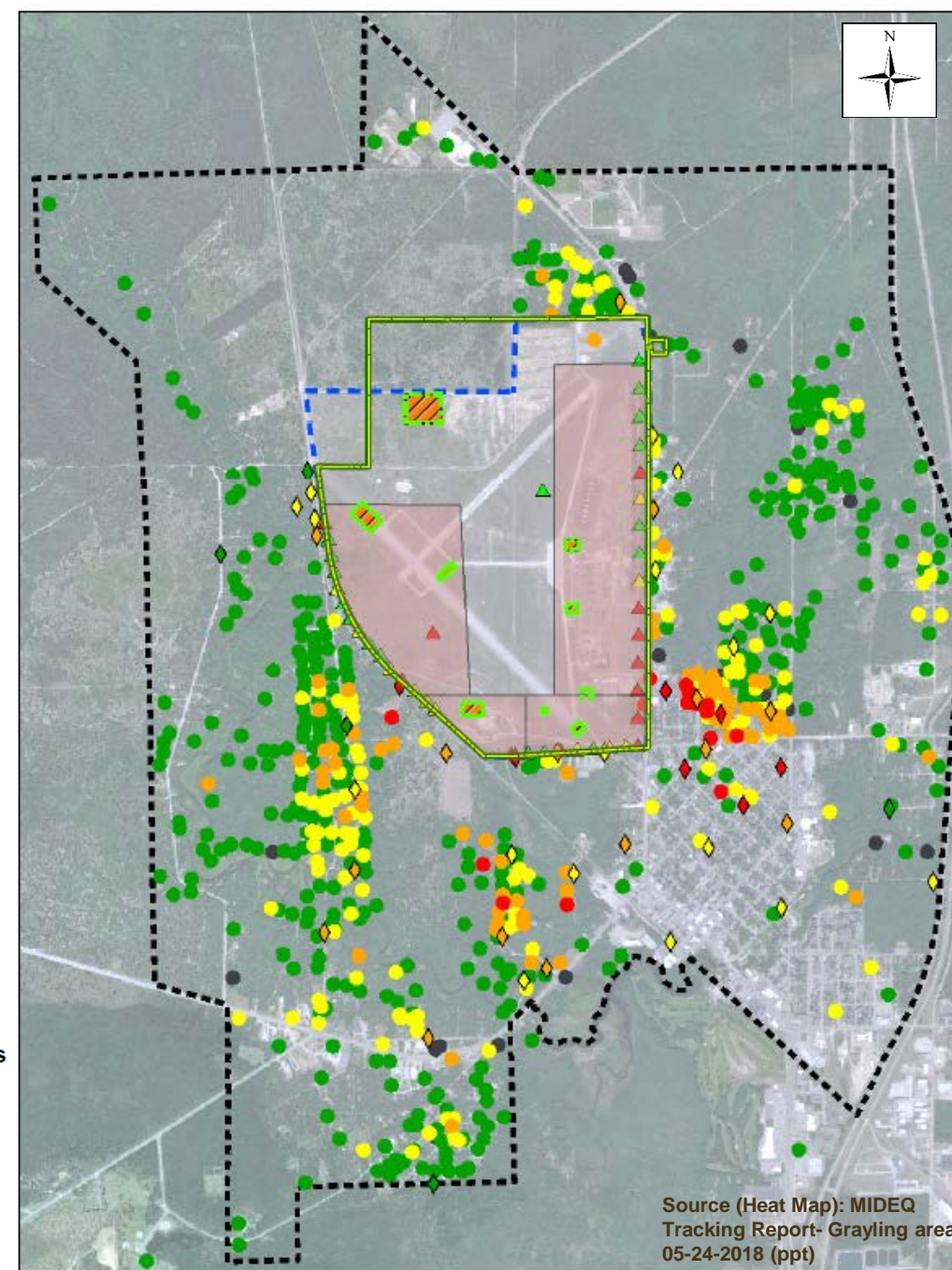
- Results Pending
- Non-Detect
- >0 to 10
- >10 to 70
- >70

Previous VAS Sampling Locations

- ▲ VAS Sample Below Method Detection Limit
- ▲ VAS Sample Detected but Under Criteria
- ▲ VAS Analyte Exceeds USEPA Drinking Water
- ▲ Advisory and/or MDEQ Groundwater Surface Water Interface
- ▭ Grayling Airfield Boundary
- ▭ Expanded Investigation Area

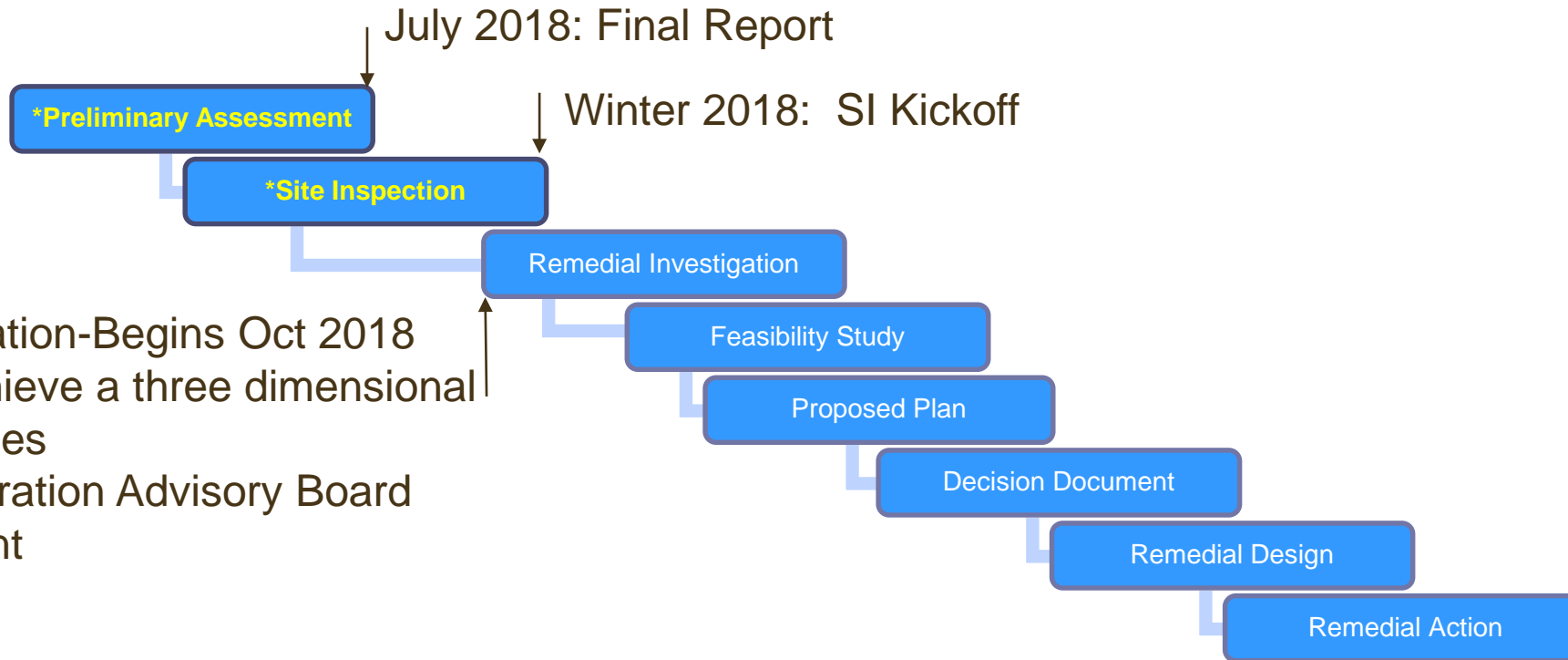
2017-2018 RI Boring Locations

- #### PFOA +PFOS, ppt
- ◆ Non-Detect
 - ◆ >0 to 10
 - ◆ >10 to 70
 - ◆ > 70





CERCLA Timeline & Next Steps



Remedial Investigation-Begins Oct 2018

- Sampling to achieve a three dimensional picture of releases
- Solicit for Restoration Advisory Board
- Risk Assessment



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QUESTIONS?

