

RESTORATION ADVISORY BOARD (RAB) MEETING

FORMER WAIKOLOA MANEUVER AREA
OCTOBER 16, 2024

The views, opinions and findings contained in this report are those of the author(s) and should not be construed as an official Department of Army position, policy or decision, unless so designated by other official documentation.



US Army Corps
of Engineers®



U.S. ARMY

RAB AGENDA – FALL 2024



Opening Remarks: Government Co-Chair
RAB Community Co-Chair Remarks.....

David Griffin
Pete Hoffmann

Old Business

- Approval of Spring 2024 Minutes

Board Administration

Work Status Update

- RI/FS (Remedial Investigation/Feasibility Study) – Projects 01, 20, 21, 23
- RD/RA (Remedial Design / Remedial Action) – Projects 02, 04, 10
- RA-C (Remedial Action – Construction) – Project 18

Special Interest Presentation

Biological Monitoring.....

Rhonda Lucas

Questions/Discussion

Open

Closing Remarks

David Griffin



U.S. ARMY

OPENING REMARKS



Government Co-Chair
Mr. David Griffin



U.S. ARMY

OPENING REMARKS



RAB Community Co-Chair Remarks
Mr. Pete Hoffmann

BOARD ADMINISTRATION

Approval of Spring 2024 Minutes



U.S. ARMY



US Army Corps
of Engineers®

WORK STATUS UPDATE



U.S. ARMY



US Army Corps
of Engineers®



U.S. ARMY

2024 PROJECT AREAS



7

2024 HAWAII FUDS PRIORITY RANKING FOR WAIKOLOA MANEUVER AREA

2024 WMA Ranking	Project No.	Project Name	Phase	MRSPP
1	02	Areas B,O,Q&J-Cleared	RA-C	3
2	04	Areas B,O,Q&J-Remnants	RD	3
3	22	Area P	RA-C	3
4	10	Sector 17D	RD	2
5	20	Sector 16A-E	RI/FS	5
6	21	Sectors 17A,B,C,E&F	RI/FS	2
7	01	Areas A and G	RI/FS	3
8	23	Area F	RI/FS	3

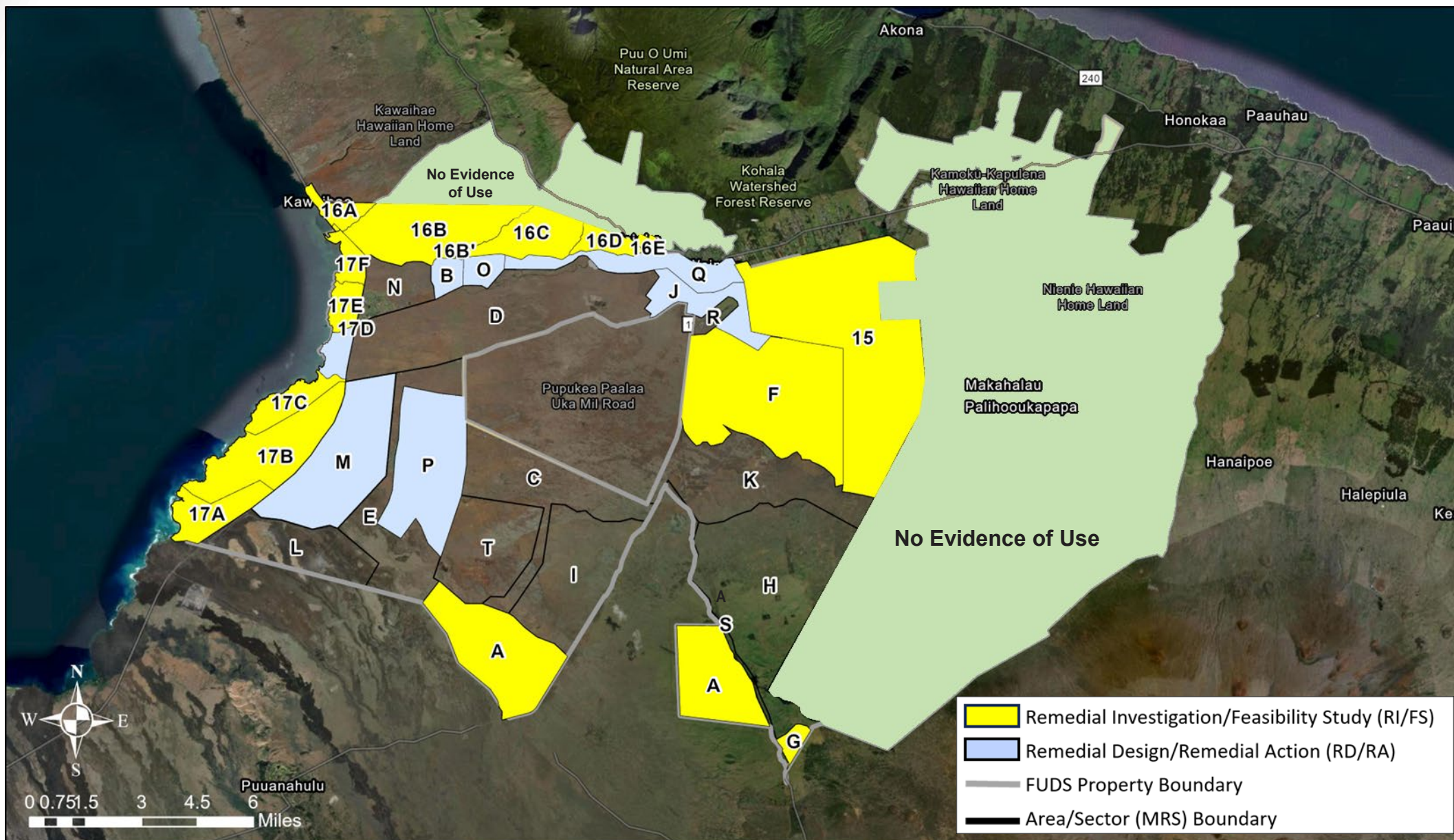
Typically
based on risk



U.S. ARMY

FY22/23 PROJECT STATUS

8

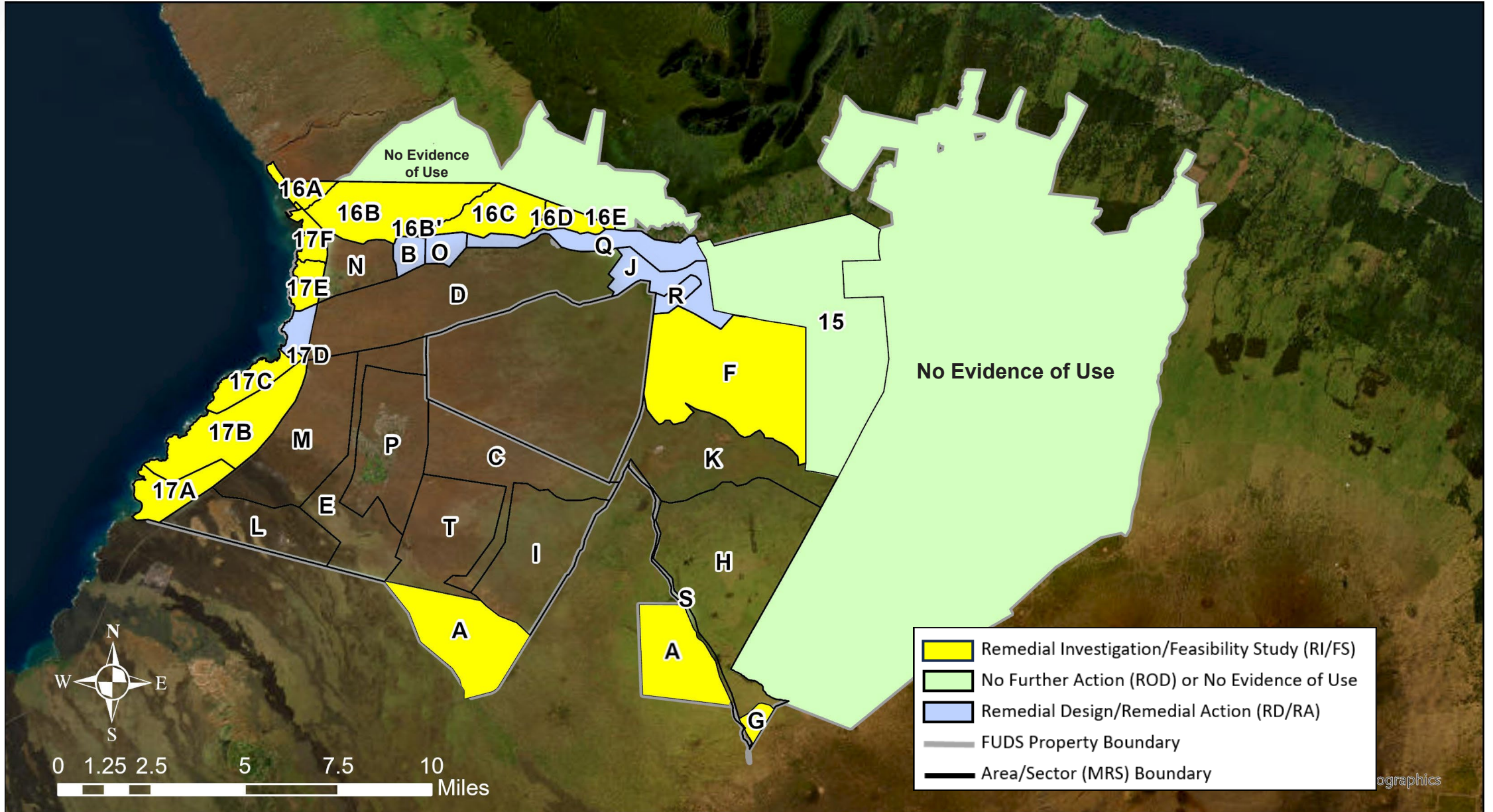




U.S. ARMY

FY23/24 PROJECT STATUS

9





U.S. ARMY

WORK STATUS UPDATE

10



CERCLA Phase

- Remedial Investigation/
Feasibility Study
- Remedial Design
- Remedial Action - Construction

Project Area

- Project 01 - Areas A & G
- Project 20 - Sectors 16A, 16B, 16C, 16D, 16E
- Project 21 - Sectors 17A, 17B, 17C, 17E, 17F
- Project 23 - Area F
- Project 02 - Area B,O,Q,J-Cleared
- Project 04 - Area B,O,Q,J-Remnant
- Project 10 - Sector 17D
- Project 18 – Area R



U.S. ARMY

WORK STATUS UPDATE



RI / FS

(Remedial Investigation / Feasibility Study)

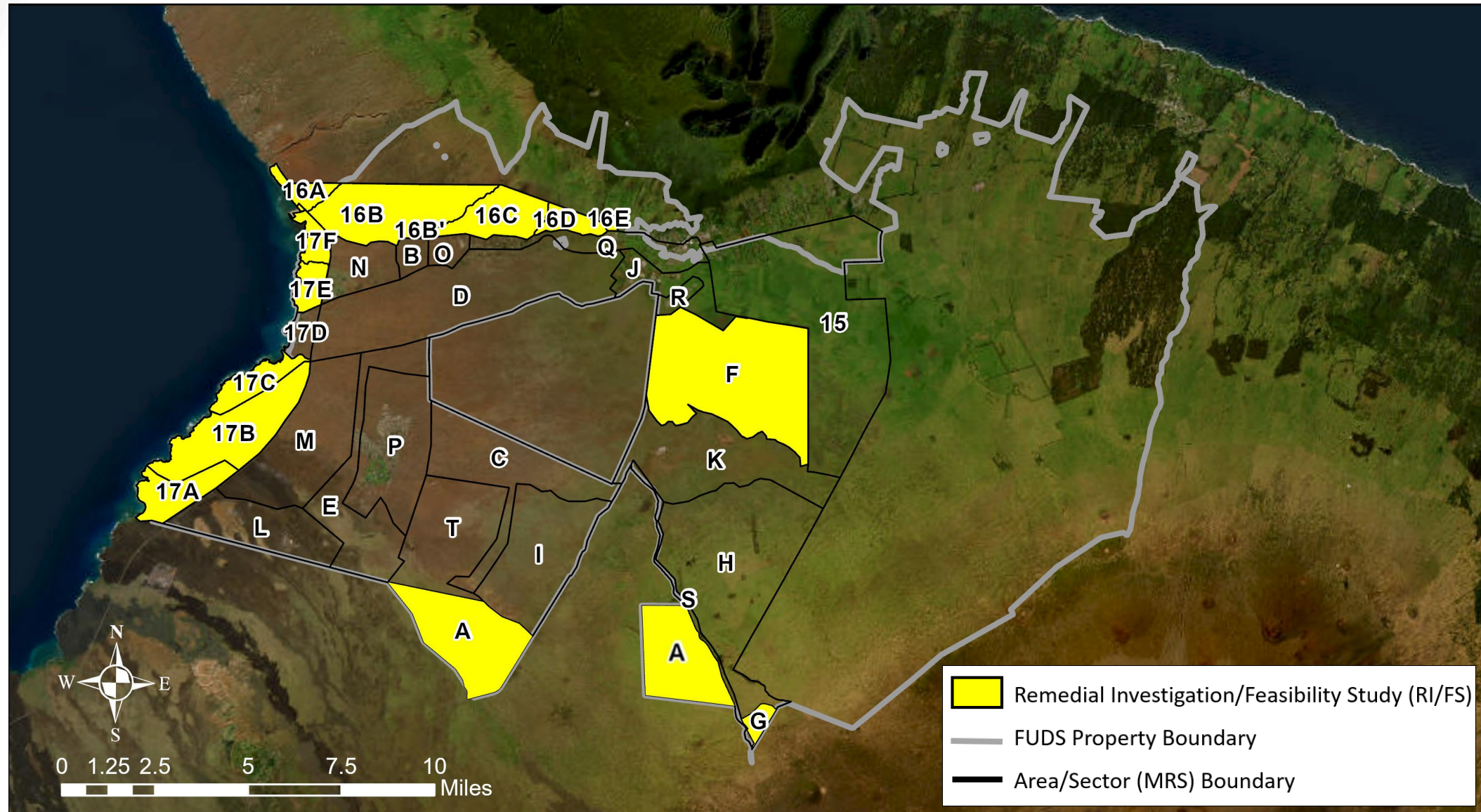
Determine Nature and Extent of Contamination



U.S. ARMY



CURRENT RI/FS PROJECT LOCATIONS

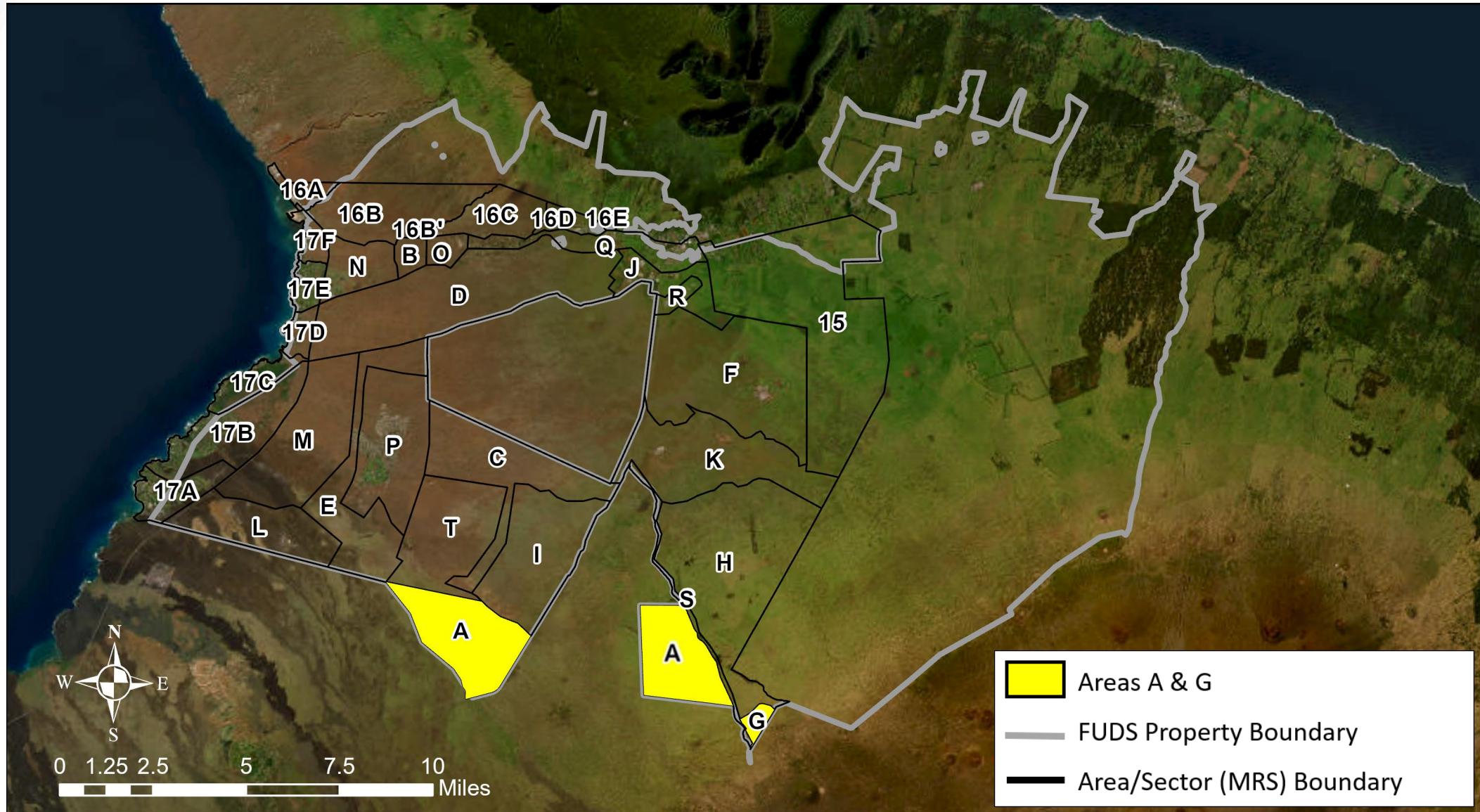




U.S. ARMY



AREAS A & G (PROJECT 01)



AREAS A & G (PROJECT 01)

➤ Status

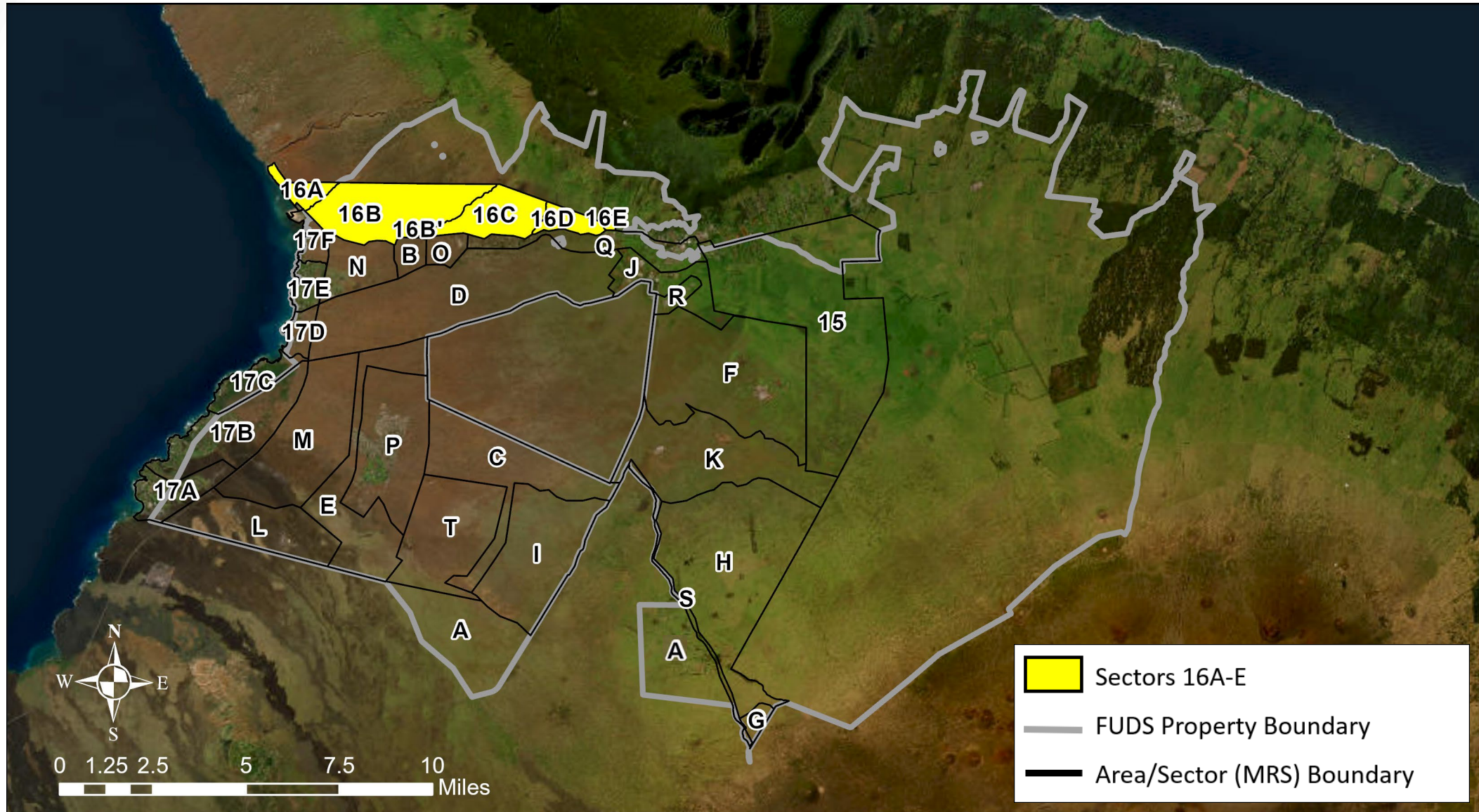
- Final RI Report concurrence letter received from HDOH August 28, 2024
 - Delineated historic range fan into Area T
 - Recommended No Further Action for remaining MRS
- Final PP anticipated February 2025
- Public Meeting anticipated March 2025
- ROD anticipated September 2025



U.S. ARMY



SECTOR 16 (PROJECT 20)





U.S. ARMY

SECTOR 16 (PROJECT 20)

16



➤ Status

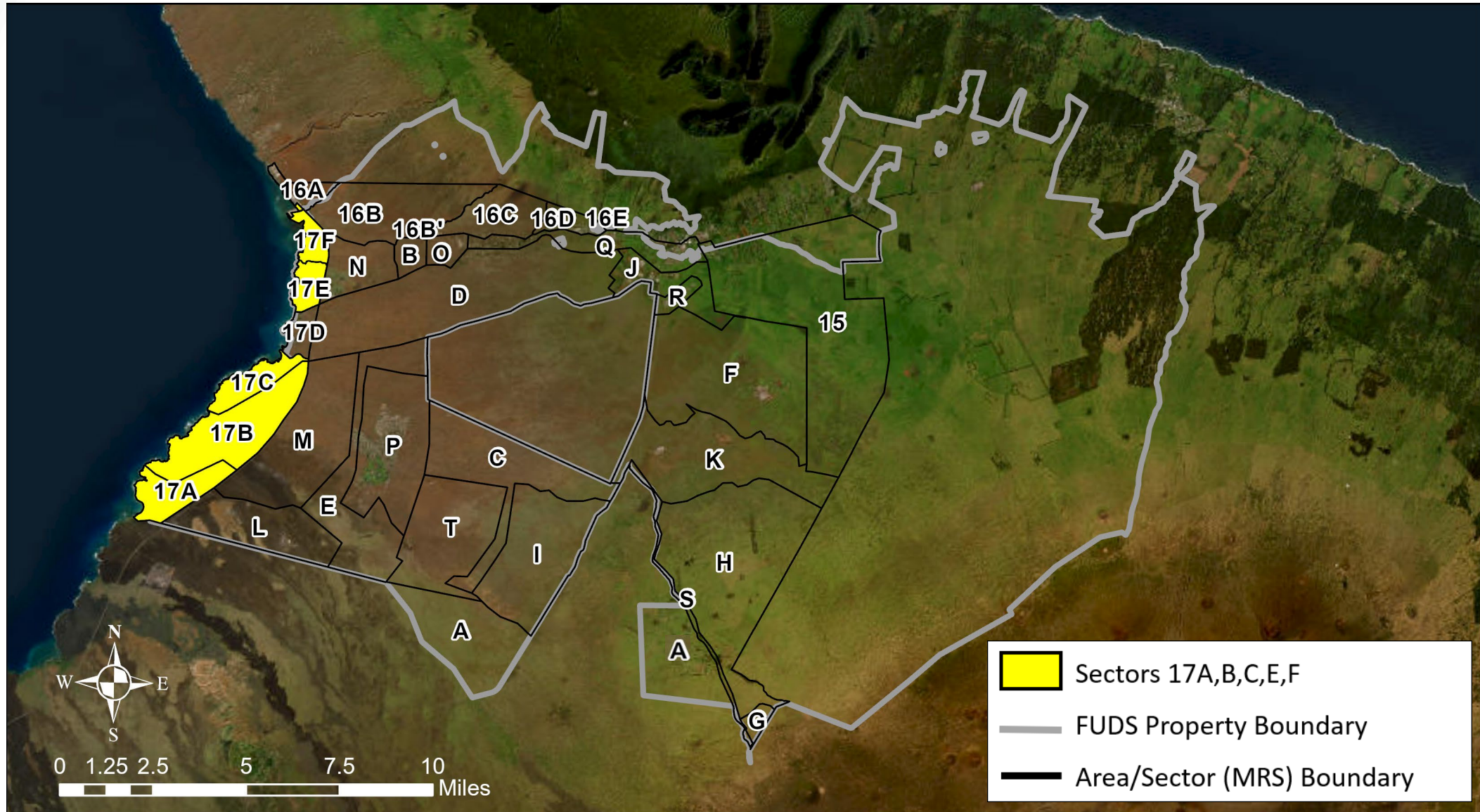
- Fieldwork will commence once additional Right of Entry authorizations (ROEs) are secured.
 - How many do we have? How many do we need?
 - What are the next steps without those signatures?
- USACE/HGL conducted door-to-door ROE request for parcels June 13-14 and September 23-24, 2024



U.S. ARMY

SECTORS 17A, 17B, 17C, 17E, 17F (PROJECT 21)

17

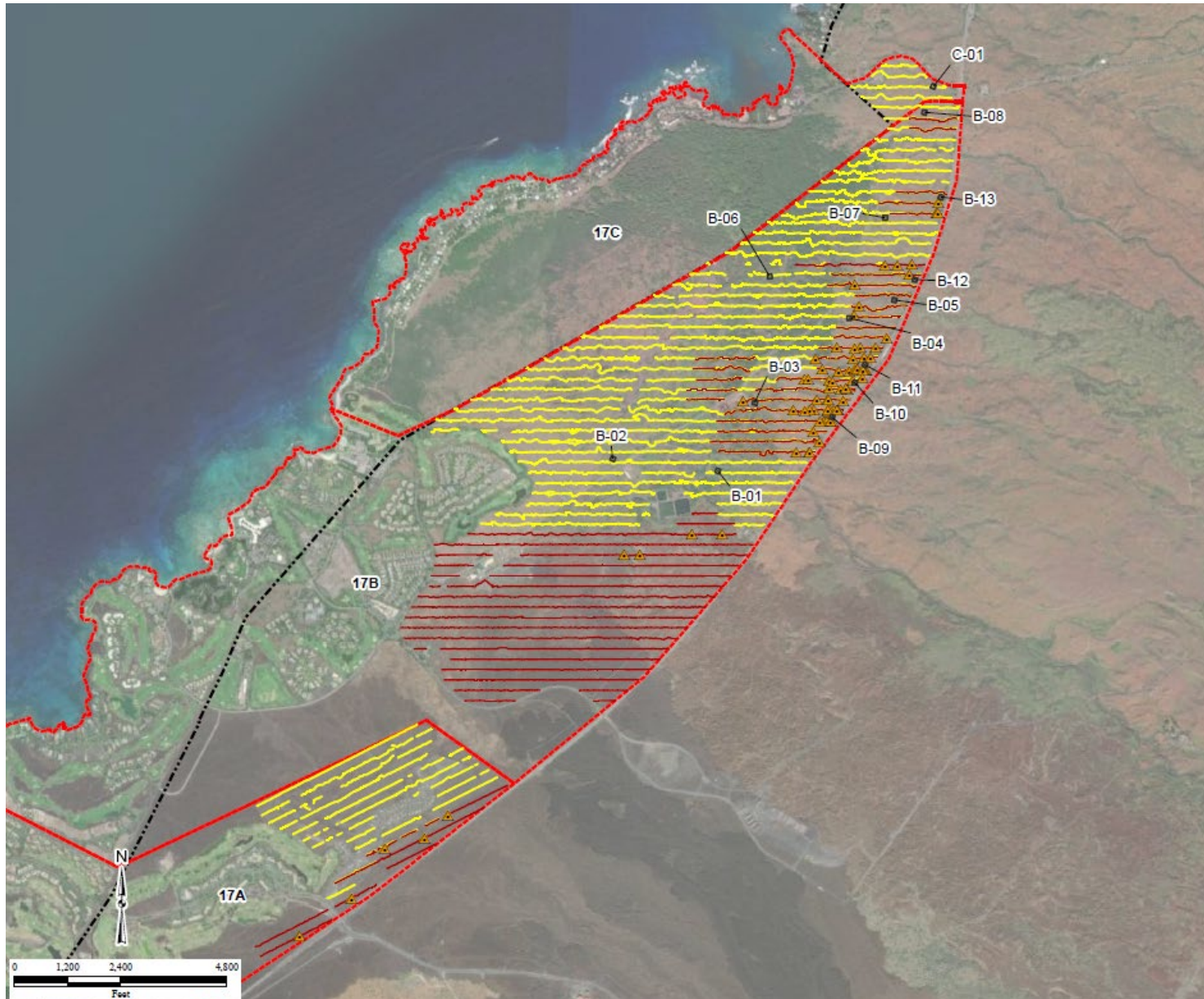




U.S. ARMY

SECTORS 17A, 17B, 17C (PROJECT 21)








18



Completed Transects and As-Built AGC Grids (Sectors 17A, 17B, and 17C)

Legend

AGM Transect Intrusive Findings:

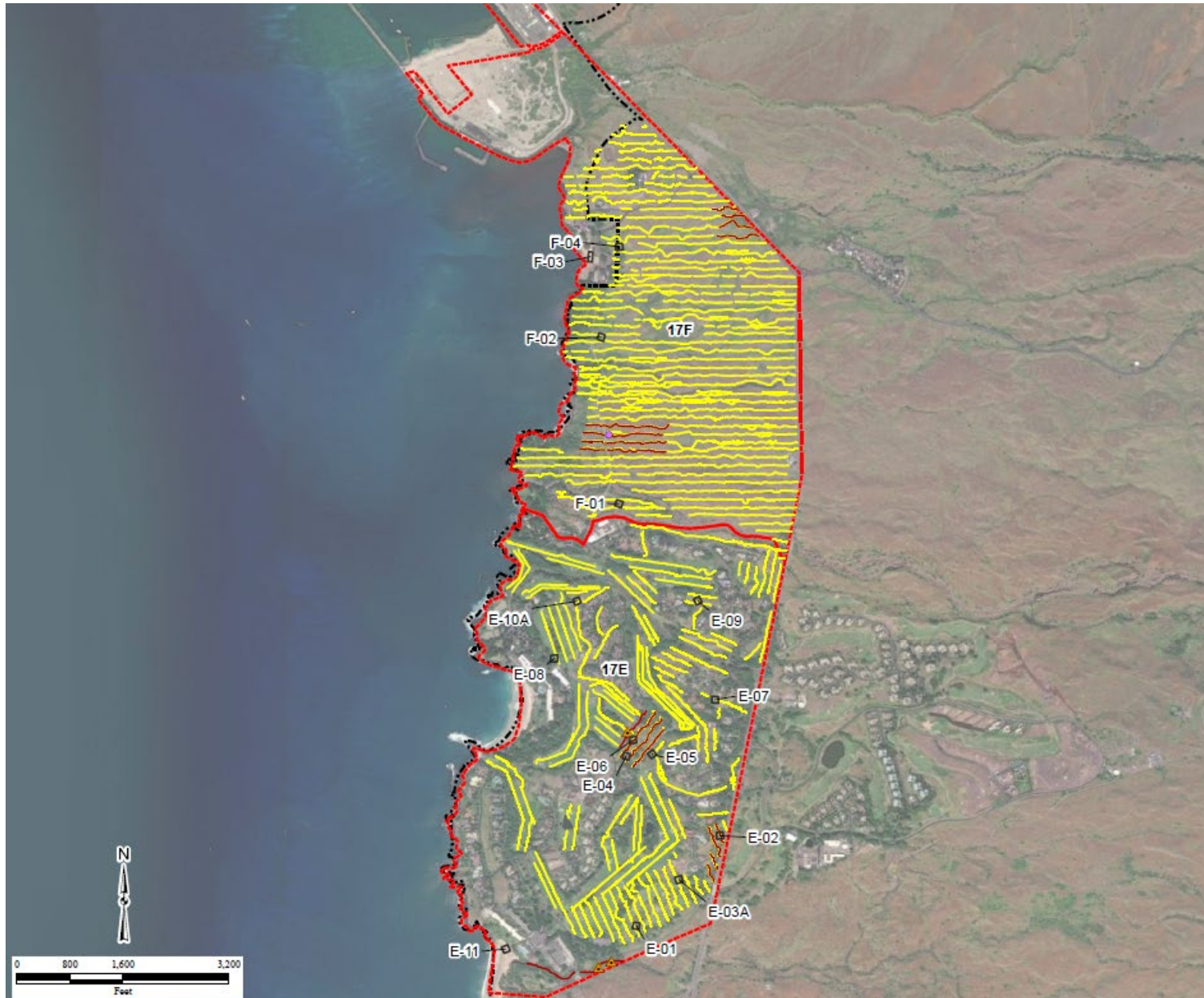
-  Munitions Debris
-  Small Arms Ammunition
-  Completed AGM Transect
-  Completed AGC Transect (APEX Sensor)
-  As-Built AGC Grid Location
-  Project 21 MRS
(Sectors 17A, 17B, 17C)
-  FUDS Property Boundary



U.S. ARMY

SECTORS 17E, 17F (PROJECT 21)








19



Completed Transects and As-Built AGC Grids (Sectors 17E and 17F)

Legend

AGM Transect Intrusive Findings:

-  Munitions Debris
-  Small Arms Ammunition
-  Completed AGM Transect
-  Completed AGC Transect (APEX Sensor)
-  As-Built AGC Grid Location
-  Project 21 MRS (Sectors 17E and 17F)
-  FUDS Property Boundary



U.S. ARMY

SECTORS 17A, 17B, 17C, 17E, 17F (PROJECT 21)

20



➤ Status

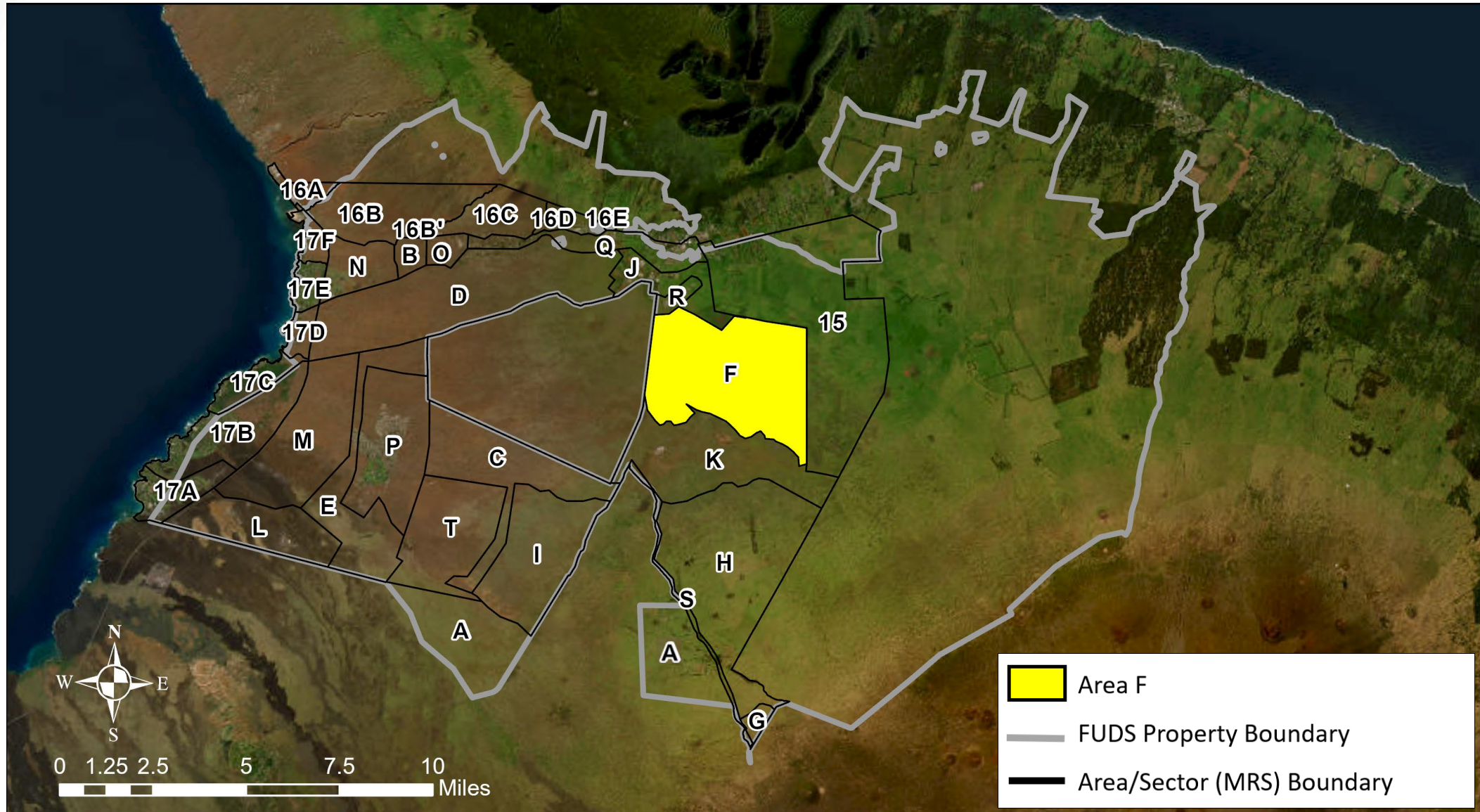
- Completed Advanced Geophysical Classification (AGC) data collection for second phase of field work.
 - Data processing underway
- RI projected July 2025
- FS (if necessary) December 2025
- PP June 2026
- ROD February 2027



U.S. ARMY



AREA F (PROJECT 23)











AREA F (PROJECT 23)



Completed Transects and Installed Grids Former WMA, Project 23

Legend

AGM Transect Intrusive Findings:

-  Munitions Debris
-  Small Arms Ammunition
-  Completed AGM Transect
-  Completed AGC Transect (APEX Sensor)
-  Mamalahoa Highway
-  Installed Grid Location
-  Project 23 MRS (Area F)
-  FUDS Property Boundary



U.S. ARMY

AREA F (PROJECT 23)

23



➤ Status

- Field Team Demobilized
 - Advanced Geophysical Classification (AGC) along transects complete
 - Intrusive investigation of select anomalies complete
 - High density areas defined and characterized
 - AGC in areas with historical munitions and explosives of concern (MEC) or munitions debris complete
- Next field team mobilization awaiting USACE approval of anomalies designated for intrusive investigation.



U.S. ARMY

WORK STATUS UPDATE

24



RD (Remedial Design)

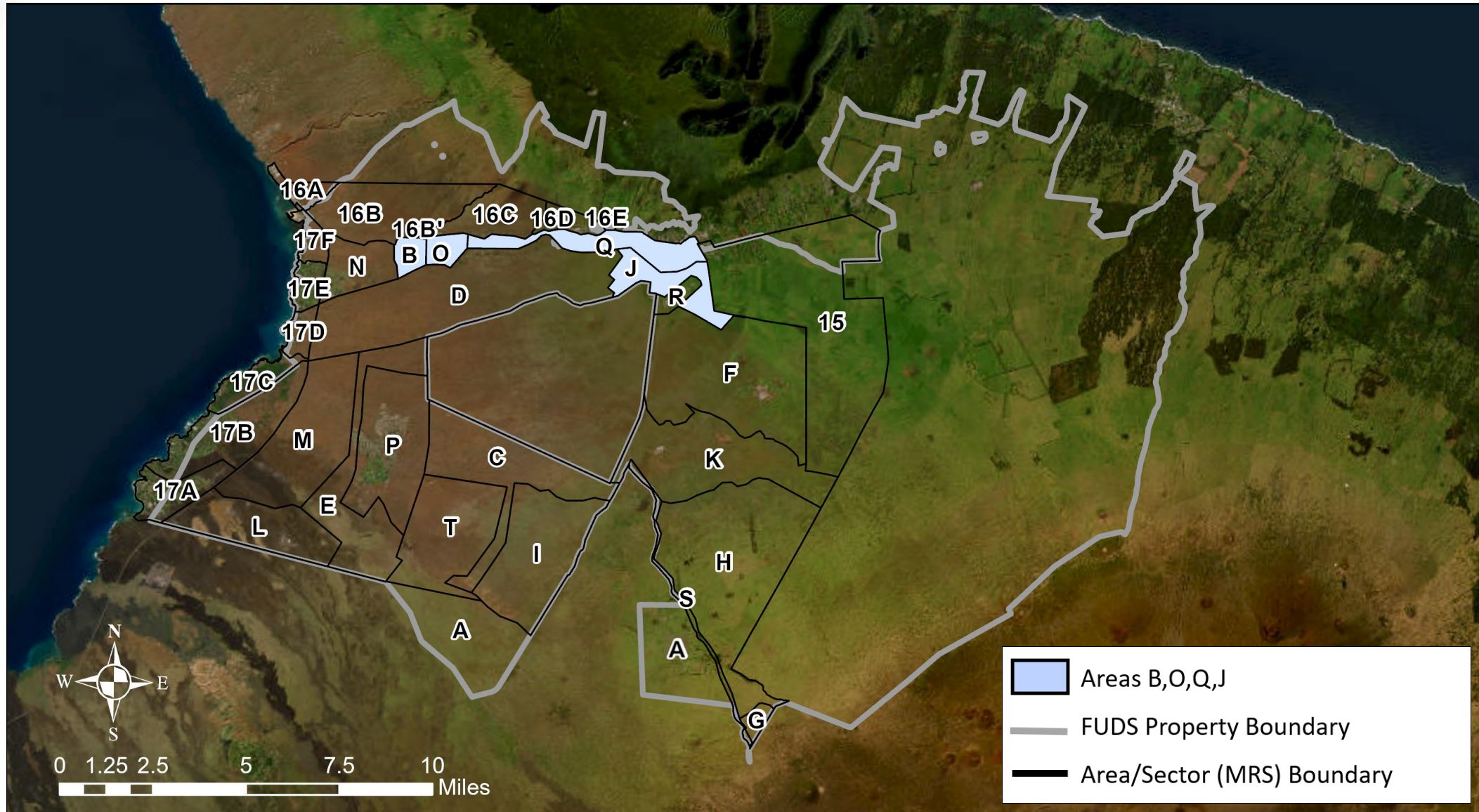
Remedial Technology Tested and Selected



U.S. ARMY

AREAS B,O,Q,J-CLEARED (PROJECT 02) AND B,O,Q,J-REMNANTS (PROJECT 04)

25





U.S. ARMY

AREAS B,O,Q,J-CLEARED (PROJECT 02) AND B,O,Q,J-REMNANTS (PROJECT 04)



➤ Status

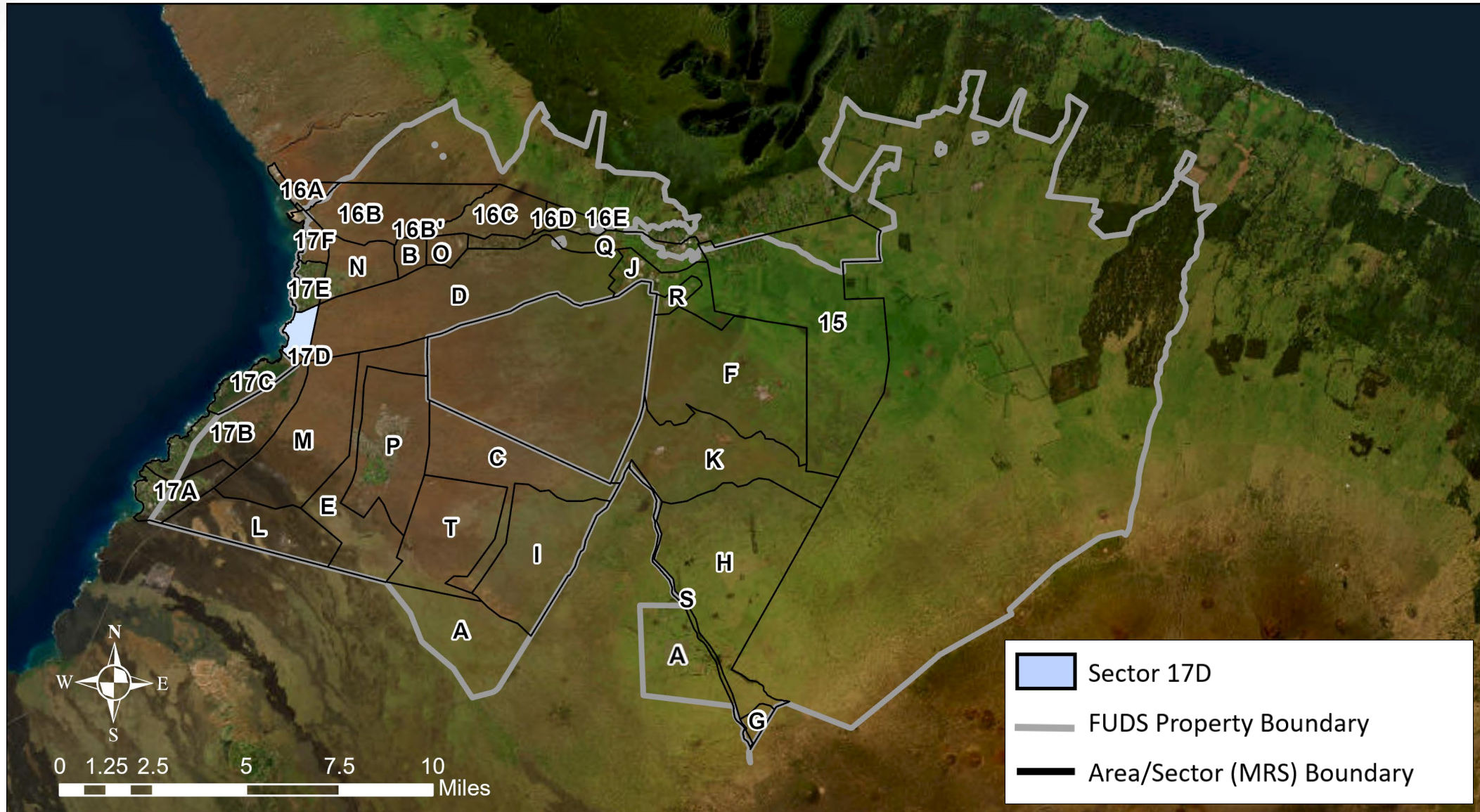
- Fieldwork completed May 2024
- Draft version of RD Report under review at USACE
 - Results from RD effort will inform RA-C strategy.



U.S. ARMY

SECTOR 17D (PROJECT 10)

27





U.S. ARMY

SECTOR 17D (PROJECT 10)

28



➤ Status

- Right of Entries received 19 July 2024
- Mobilized to Hapuna Beach and started Phase 1 operations on transects 06 August 2024
- Demobilized September 2024
- Currently finalizing Advanced Geophysical Classification

Hapuna Beach State Recreation Area
located in Sector 17D





U.S. ARMY

WORK STATUS UPDATE

29



RA-C **Remedial Action - Construction**

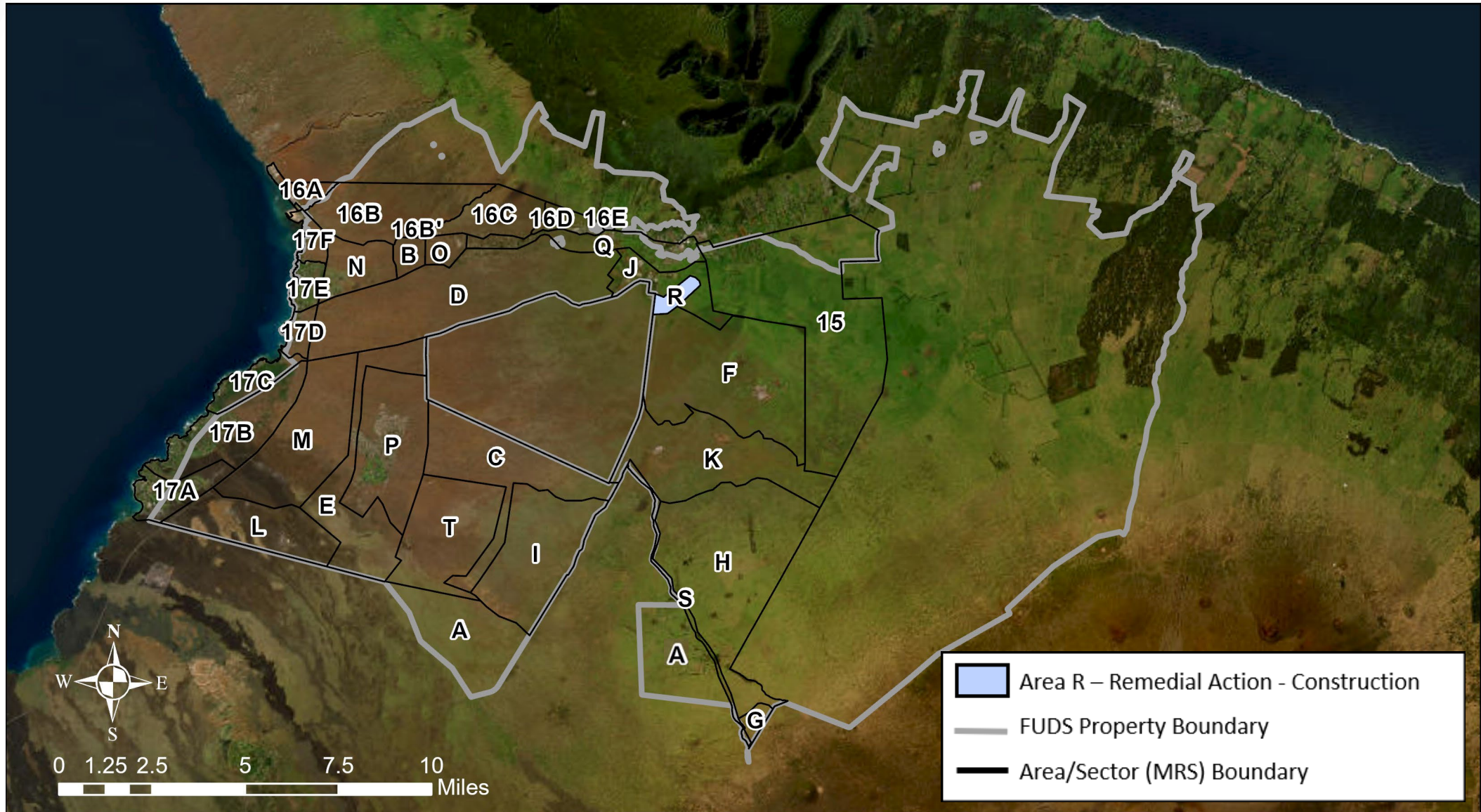
Implementation of Remedy



U.S. ARMY



AREA R (PROJECT 18)

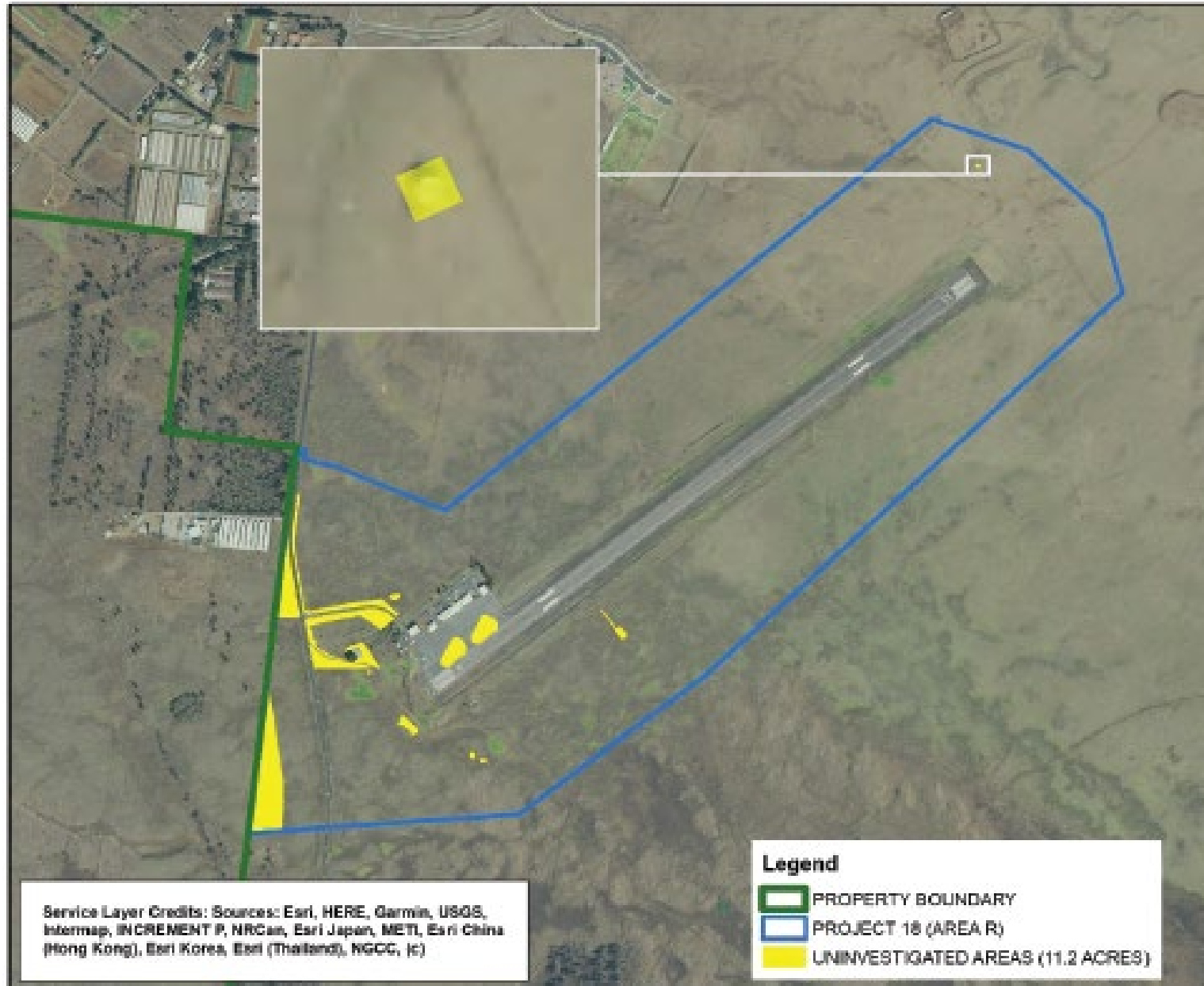




U.S. ARMY



AREA R (PROJECT 18)



AREA R (PROJECT 18)

➤ Status

- Awarded contract in September 2024
- Completion of fieldwork in December 2025
- Completion of Remedial Action Report in December 2026
- Project closeout by June 2027

SPECIAL INTEREST PRESENTATION

Biological Monitoring



U.S. ARMY



US Army Corps
of Engineers®



U.S. ARMY



BIOLOGICAL MONITORING

Waikoloa Maneuver Area (WMA)
Military Munitions Response Sites

WHO ARE WE?



Justine Kmiecik
USACE-POH Biologist



Rhonda Lucas
USACE-POH Biologist



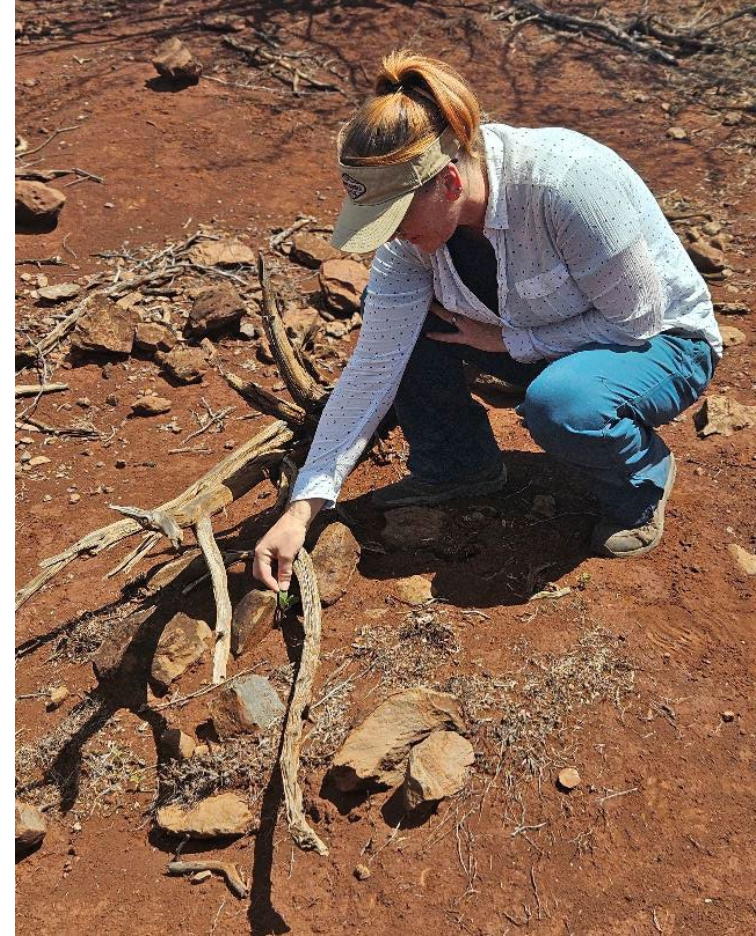
U.S. ARMY

ROLES & RESPONSIBILITIES

36



- Compliance support for ESA + other environmental laws and regulations
- Coordinate with partners and stakeholders





U.S. ARMY

ECOLOGICAL RESOURCES PLAN

37




**FINAL
ECOLOGICAL RESOURCE PLAN**

**REMEDIAL INVESTIGATION / FEASIBILITY STUDY
FORMER WAIKOLOA MANEUVER AREA
PROJECT 21 (SECTORS 17A, 17B, 17C, 17E, 17F) }
HAWAII COUNTY, ISLAND OF HAWAII, HAWAII**

FUDS Project No. H09HI035921

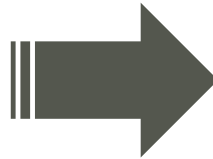
Contract No. W912DY-20-D-0017
Delivery Order No. W912DY22F0153



Prepared for:

U.S. Army Corps of Engineers, Honolulu District
U.S. Army Engineering and Support Center, Huntsville

January 2023



Common Name and/or Hawaiian Name	Scientific Name	Status
Hawaiian hoary bat, 'Ōpe'ape'a	<i>Lasiurus cinereus semotus</i>	Endangered State and Federal
Band-rumped storm-petrel, 'Akē'akē	<i>Hydrobates castro</i>	Endangered State and Federal
Hawaiian coot, 'Alae Kea	<i>Fulica alai</i>	Endangered State and Federal
Hawaiian goose, Nēnē	<i>Branta sandvicensis</i>	Federally listed as threatened, State-listed Endangered
Hawaiian petrel, 'Ua'u	<i>Pterodroma sandwichensis</i>	Endangered State and Federal
Hawaiian short-eared owl, Pueo	<i>Asio flammeus sandwichensis</i>	MBTA Protected; State-listed Endangered (Oahu only)
Hawaiian stilt, Ae'o	<i>Himantopus mexicanus knudseni</i>	Threatened State and Federal
Newell's shearwater, 'A'o	<i>Puffinus newelli</i>	Threatened State and Federal
Pacific golden plover, Kōlea	<i>Pluvialis fulva</i>	MBTA Protected
Anthracinan yellow-faced bee	<i>Hylaeus anthracinus</i>	Endangered State and Federal
Blackburn's sphinx moth	<i>Manduca blackburni</i>	Endangered State and Federal
Pacific Hawaiian damselfly	<i>Megalagrion pacificum</i>	Endangered State and Federal
Native yellow hibiscus, Ma'o hau hele	<i>Hibiscus brackenridgei</i>	Endangered State and Federal
'Aiea	<i>Nothocestrum breviflorum</i>	Endangered State and Federal
Ha'iwale	<i>Cyrtandra wagneri</i>	Endangered State and Federal
Halapepe	<i>Pleomele hawaiiensis</i>	Endangered State and Federal
Honohono	<i>Haplostachys haplostachya</i>	Endangered State and Federal
Kauila	<i>Colubrina oppositifolia</i>	Endangered State and Federal

- Identifies T&E species and habitat
- Describes proposed activities and best practices
- Outlines impact avoidance & minimization measures



U.S. ARMY

HABITATS

38



NATIVE PLANTS



'Ilima (*Sida fallax*)



Pili (*Heteropogon contortus*)



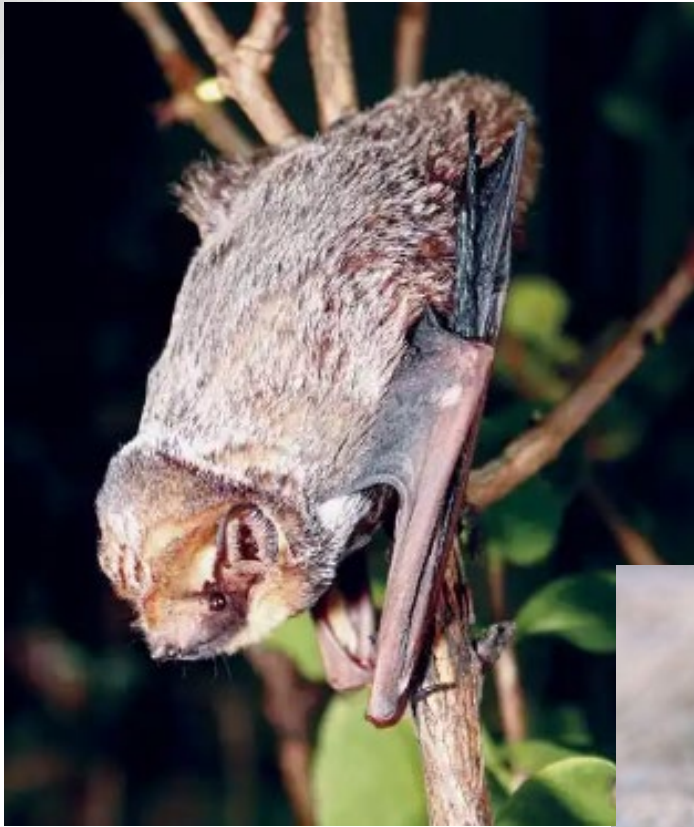
'A'ali'i (*Dodonaea viscosa*)



U.S. ARMY

FEDERALLY PROTECTED SPECIES

40



'Ōpe'ape'a



Nēnē



Honu



Pulelehua



U.S. ARMY

FEDERALLY PROTECTED SPECIES

41



'Ōhai
(*Sesbania tomentosa*)



'Awikiwiki
(*Canavalia pubescens*)



Pōpolo kū mai
(*Solanum incompletum*)



U.S. ARMY

USACE MONITORING



- Prior to Fieldwork
 - Review and concurrence of Environmental Resources Plan
 - Are protected resources potentially present on site?
 - If so, how can we avoid or minimize our impact?
 - Approve qualification of contract biologist and survey procedures
- During Fieldwork
 - Audit work to confirm/flag resources
 - What if they find a protected natural resource?

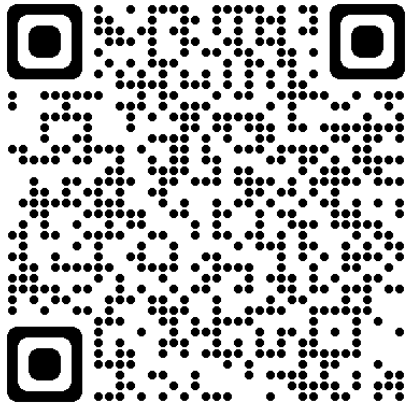
QUESTIONS?



U.S. ARMY

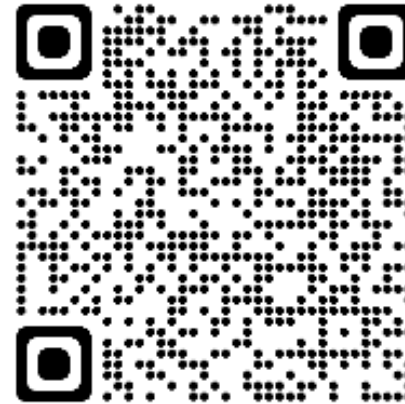


WMA FUDS CONTACT INFORMATION



Join our mailing list

Meeting reminders and
other updates



Visit our website

Meeting agendas,
recordings, project
updates, and other
general WMA information

David Griffin, WMA FUDS Manager

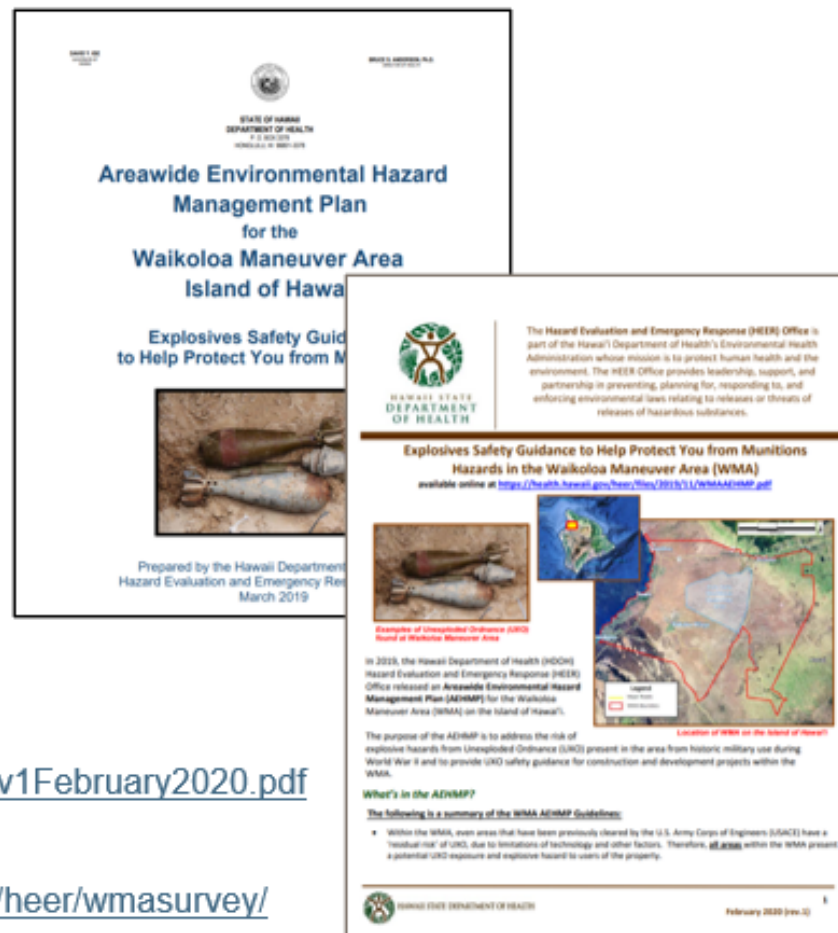
WMAUXOInfo@usace.army.mil

(808) 835-4079



2024 HDOH Waikoloa Maneuver Area AEHMP Update

- AEHMP: health.hawaii.gov/heer/files/2019/11/WMAAEHMP.pdf
- Fact Sheet: health.hawaii.gov/heer/files/2020/10/WaikoloaFactSheetRev1February2020.pdf
- One-Call Dig Clean Notifications and 2021 Mailings
- On-line survey about UXO at WMA: health.hawaii.gov/heer/wmasurvey/



HEER Office Contacts:

HEER Office Site Discovery, Assessment, and Remediation (SDAR) Section at **(808) 586-4249**.

WMA Remediation Project Managers (RPM)

Jennah Oshiro: jennah.oshiro@doh.hawaii.gov



HAWAII STATE DEPARTMENT OF HEALTH
HEALTHY PEOPLE - HEALTHY COMMUNITIES - HEALTHY ISLANDS



U.S. ARMY

QUESTIONS / DISCUSSION

46



Formerly Used Defense Sites (FUDS) Websites

- USACE HQ FUDS

<https://www.usace.army.mil/missions/environmental/formerly-used-defense-sites/>

- USACE-POH FUDS

<https://www.poh.usace.army.mil/Missions/Environmental/FUDS/>

- 3Rs of Explosive Safety Program

<https://www.usace.army.mil/Missions/Environmental/Formerly-Used-Defense-Sites/3Rs-of-Explosives-Safety-Information/>

- [3Rs.mil](https://www.3rs.mil/)



U.S. ARMY

IF YOU SEE SOMETHING SAY SOMETHING!

47



Follow the 3Rs of Explosives Safety:

- **RECOGNIZE** when you may have encountered a munition and that munitions are dangerous
- **RETREAT** do not approach, touch, move, or disturb it, but carefully leave the area
- **REPORT** call 911 and advise the police of what you saw and where you saw it.

