

Air Force Installation & Mission Support Center



Wurtsmith Restoration Advisory Board Meeting

Steven Willis
AFCEC/CIBC
17 May 2023

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Classification



The classification of the brief is unclassified



Agenda



- **Welcome, introductions, and ground rules**
- **Restoration Advisory Board (RAB) member updates**
- **RAB business update**
- **Base Realignment and Closure (BRAC) BECOS Unexploded Explosive Ordnance (UXO) – Land Use Control (LUC) briefing**
- **Remedial Investigation (RI) update**
- **Interim Remedial Action (IRA) update**
- **Schedule**
- **RAB member questions**
- **Public comment**
- **Conclusion – RAB Co-Chairs' closing remarks**

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Restoration Advisory Board Rules



01	Respect one another and maintain an atmosphere of open dialogue and exchange of ideas
02	Use our time together efficiently, wisely and respectfully
03	Speak clearly and succinctly one person at a time; avoid interrupting others
04	Listen and remain open to different points of view
05	Maintain a propensity for progress: prepare, discuss, document and move forward
06	Share information early, openly and honestly
07	Accurately and objectively relay to others the discussions that occur at board meetings

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Checklist for Virtual Participation



- ✓ If you prefer to join audio by phone, please dial the call-in number and enter the access code to enter the meeting
- ✓ Phone unmute instructions
- ✓ RAB Members – mute when not speaking
- ✓ Use “raise hand” to raise your hand
- ✓ RAB Coordinator will unmute your mic when it’s your turn to speak
- ✓ To enable closed captions for language support, click “more” – “language and speech” – “turn on live captions”
- ✓ Use Chat for questions
- ✓ Contact the RAB Coordinator with access questions amy.rauser@wsp.com

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Acronyms



AAA	Alert Aircraft Area	MPTS	Mission Street Pump and Treat System
AFB	Air Force Base	OMM	operation, maintenance and monitoring
AFCEC	Air Force Civil Engineer Center	O&M	operation & maintenance
AFFF	aqueous film forming foam	OTPD	Oscoda Township Police Department
AOI	area of interest	PA	preliminary assessment
AOPC	area of potential concern	PFAS	per-and polyfluoroalkyl substances
BECOS	BRAC Environmental Construction and Optimization Services	PFOA	perfluorooctanoic acid
BRAC	Base Realignment and Closure	PFOS	perfluorooctane sulfonate
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PP	proposed plan
CSM	conceptual site model	RA	remedial action
CTS	Central Treatment System	RAB	restoration advisory board
DOD	Department of Defense	RAO	remedial action objective
DERP	Defense Environmental Restoration Program	RA-O	remedial action operation
DRMO	Defensive Reutilization Marketing Office	RD	remedial design
EGLE	Michigan Dept of Environment, Great Lakes, and Energy	RI	remedial investigation
EOD	Explosive Ordnance Disposal	ROD	record of decision
FS	feasibility study	SI	site inspection
GAC	granular activated carbon	SPP	system project plan
gpm	gallons per minute	SRD	substantive requirements document
GW	groundwater	UFP-QAPP	Uniform Federal Policy-Quality Assurance Project Plan
HPT	hydraulic profiling tool	USACE	U.S. Army Corps of Engineers
IRA	interim remedial action	USDA	U.S. Department of Agriculture
IRP	installation restoration program	UXO	unexploded explosive ordnance
LTM	long-term management	VAS	vertical aquifer sampling
LUC	land use controls	VOC	volatile organic compound
MEC	Munitions and Explosives of Concern	WRD	Water Resources Division
		WWTP	wastewater treatment plant

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Site Map



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RAB Updates

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Air Force Update



- **Air Force hosted a virtual technical session on 24 April 2023 to discuss the PFAS RI risk assessment**
 - **Air Force preparing responses to questions raised during the session**
- **Air Force hosted an in-person technical session on 16 May 2023 to discuss questions submitted by the RAB/community**
 - **Air Force provided handout during session addressing the questions submitted by the community**
 - **Handout will be posted to RAB website and copy placed in Information Repository in Oscoda Library**

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RAB Member Updates



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RAB Business

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- **Nomination of candidates to fill community RAB member vacancies**
- **Action item list distributed to RAB prior to meeting**
- **Action item review**
 - **Closed action items since last RAB meeting: none**
 - **New action items since last RAB meeting: 107 thru 120**
 - **Ongoing action items: 87, 88, 92, 96, 99, 100, 101, 102, 104, 105, and 106**

Presentation:



Base Realignment and Closure (BRAC)
Environmental Construction and
Optimization Services (BECOS) –
Unexploded Explosive Ordnance (UXO)
– Land Use Control (LUC) Briefing

Nick Robb, CTI
Jim Hunt, WSP

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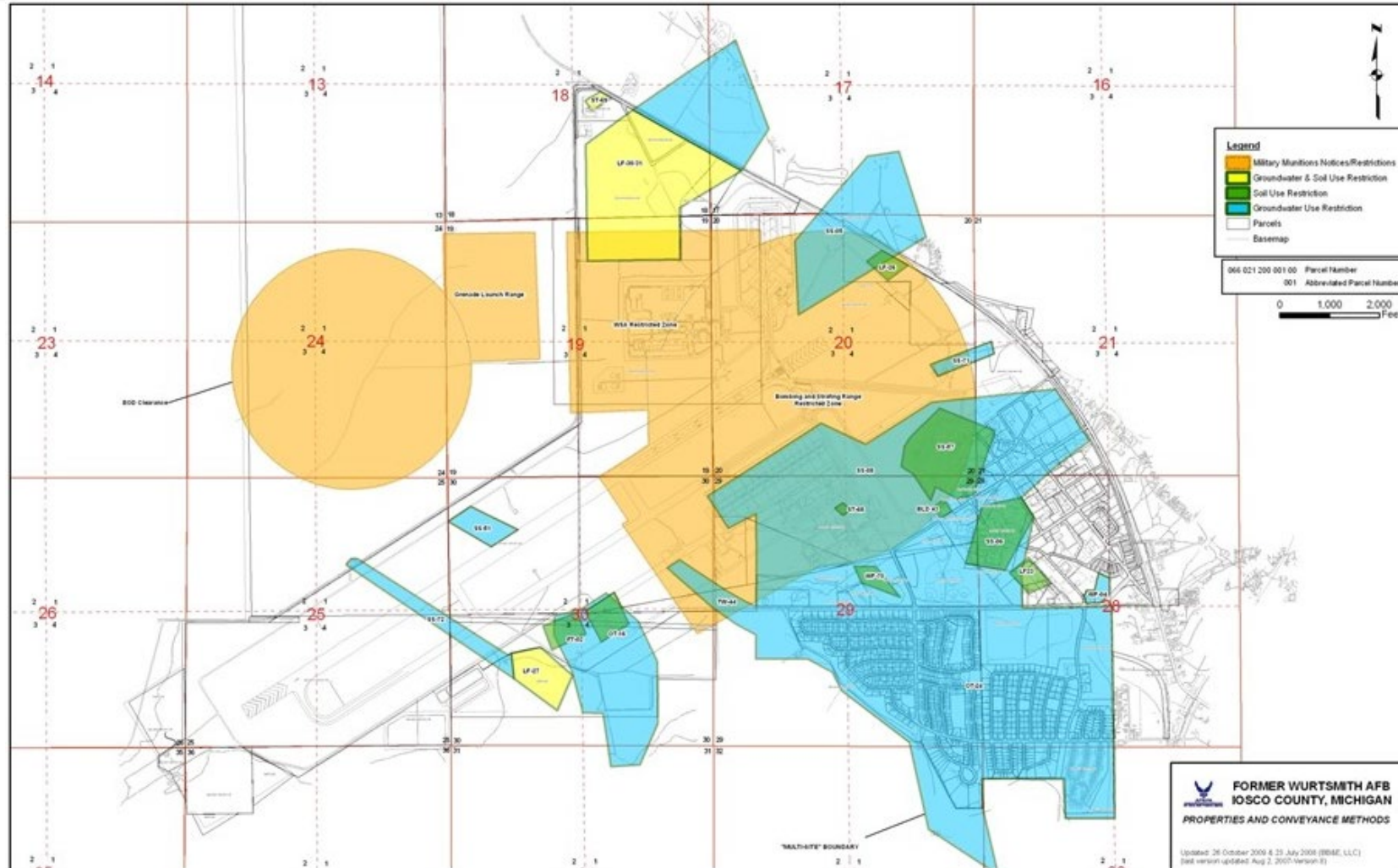
WHY ARE WE DOING THIS?



- **To inform personnel who are engaged in construction and other intrusive activities, as well as stakeholders on or around the former Wurtsmith AFB, about restrictions and deed notices in effect on and adjacent to the former base**
- **Required in decision documents issued by the Air Force**
- **Munition awareness training, required by notices that have been placed on specified areas and that are officially recorded with the county**



Restricted and Notice Areas



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Typical Restrictions

- **Groundwater Restriction**
- **Land Use Restriction (Industrial)**
 - **Use of land limited to those allowed under Industrial uses as defined in the Oscoda Township and OWAA zoning ordinance**
 - **No land use change allowed without prior written consent of the Air Force**
- **Excavation Restriction below 15' (SMEAR ZONE)**
- **Health & Safety Plan for excavations above 15'**
- **Contaminated Soil Management (Soil Movement Restriction)**
- **Maintain Soil Cover**
- **Excavation Restriction (Prohibited)**
- **Slab Restrictions**
- **Munitions and Explosives of Concern (MEC) Notice**

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UXO-MEC Briefing Objectives

- **Learn identification features of MEC potentially encountered at Wurtsmith**
- **Learn that not every bomb looks like a bomb**
- **Understand that “practice” does not mean safe**
- **Learn the Three R’s**
 - **R**ecognize - when you may have encountered a munition and that munitions are dangerous.
 - **R**etreat - do not approach, touch, move or disturb it, but carefully leave the area.
 - **R**eport - call 911 and advise the police of what you saw and where you saw it.
- **Putting it into practice**

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Examples Only - Not from former Wurtsmith AFB



MK II Bomb



MK 13 Signal Flare



Small Practice Bomb



Practice 40 mm projectile
M781



20mm Projectile

**Note: to estimate diameter
1 inch equals 25.4
millimeters**

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Retreat and Report



- **Do not disturb the item**
- **Call 911**
 - **This should put you in touch with the Oscoda Township Police Department (OTPD)**
- **Describe what you found and where it is**
 - **The OTPD will notify the Air Force**

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DO NOT...



- **Pick them up**
- **Put them in your vehicle**
- **Stick anything into them to see if they are empty**
- **Disturb Them**

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Land Use Restrictions Continued



- **Be alert for munitions during ground disturbing activity**
 - **Plowing**
 - **Digging**
 - **Trenching**
- **On-site Explosive Ordnance Disposal (EOD) support required for ground disturbing activities in former weapon storage area**
- **If the owner or user suspects a munition**
 - **Remember the 3R's**



Web Resources

- 3R's Explosive Safety Education
 - www.denix.osd.mil/uxo
- Resources and information for
 - Kids and Families
 - Military Personnel
 - Communities
 - Workers



Not every bomb...
looks like
a bomb

If you see anything on the ground that looks strange, be sure to stay away. Tell a grownup to **call 911** and **report it**.

Bookmarks



Posters

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Questions/Comments

?

For further information:

CTI/WSP

3960 East Arrow Street, Oscoda, MI 48750

989-305-1111

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Presentation:



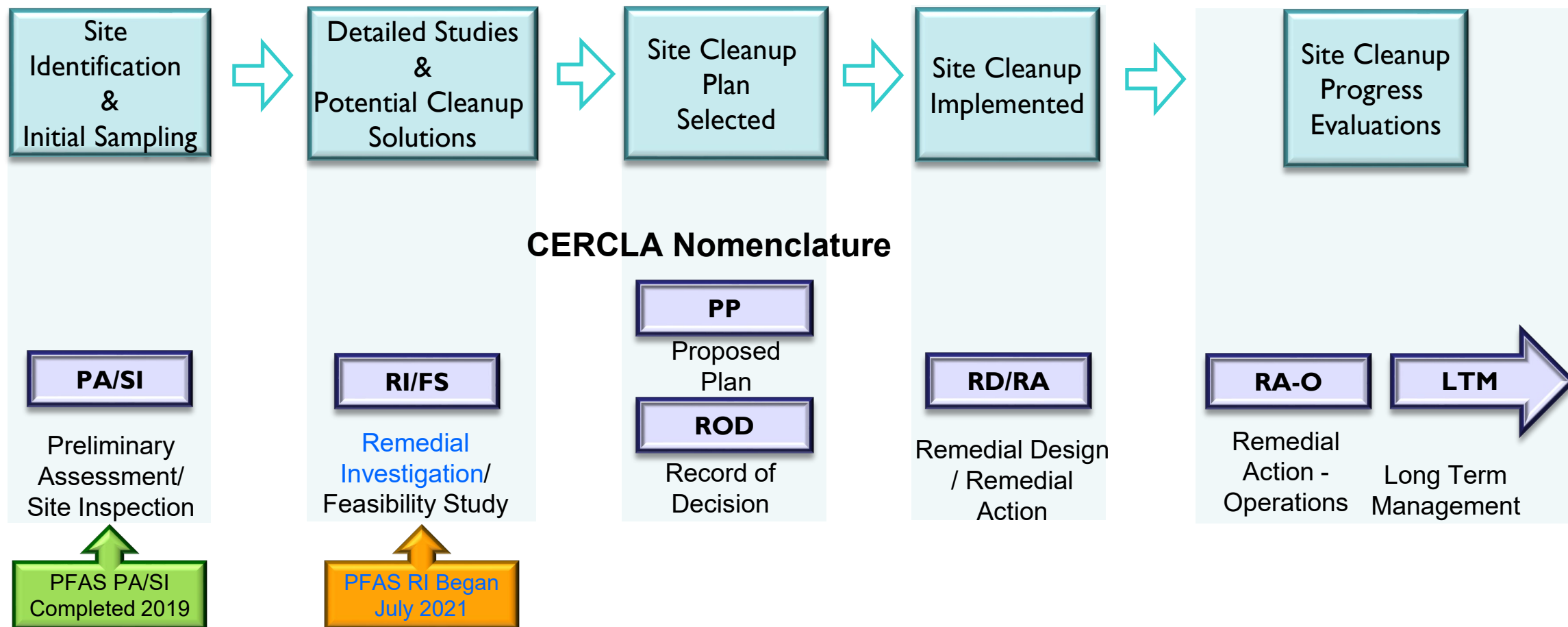
Remedial Investigation (RI) and Interim Remedial Action (IRA) Update

Paula Bond
Aerostar SES LLC
Project Manager

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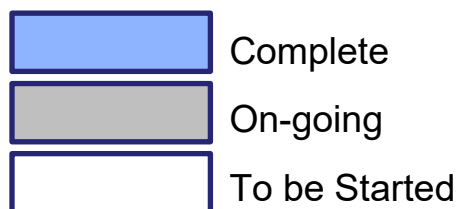
CERCLA Overview



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PFAS RI Progress



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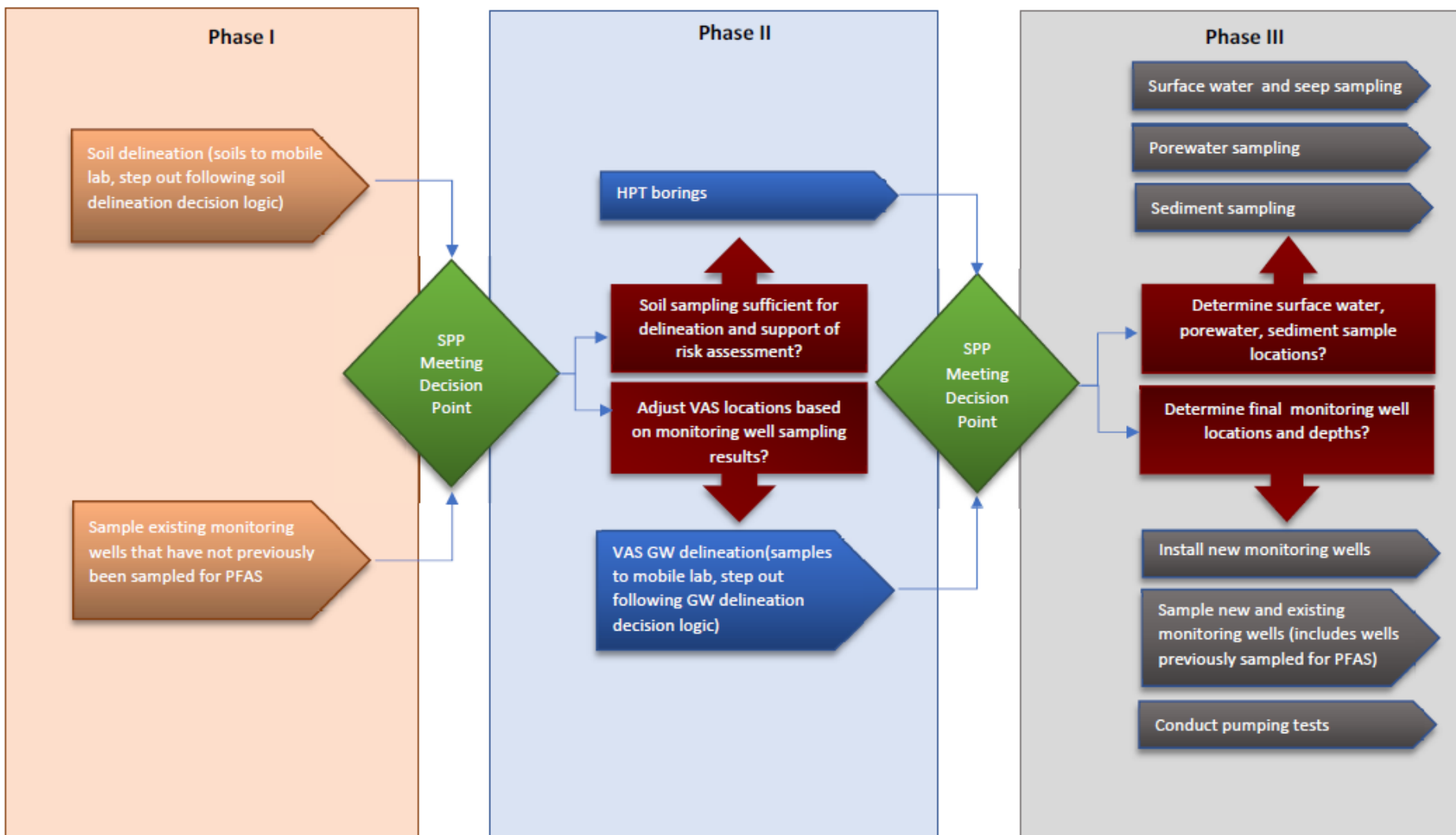


PFAS RI Update



- **PFAS RI UFP-QAPP addendum will be issued the week of 5 June 2023 for concurrent EGLE and public review**
 - **Addresses additional investigation on the east side of Van Etten Creek and Van Etten Lake**
- **Resumed fieldwork on 3 April 2023, using a hydraulic profiling tool (HPT) to determine the depth of clay at proposed vertical aquifer sampling locations**
- **Nature and extent investigation work will continue through the summer and fall**

Phases of Field Work in Work Plan



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Accelerated RI Field Work

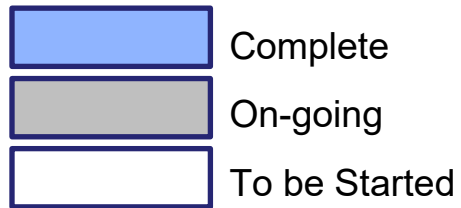
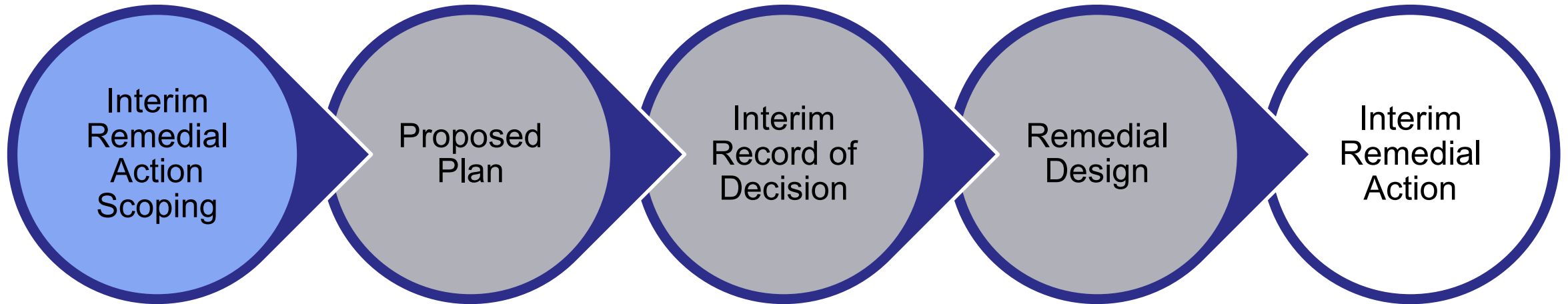
- Accelerated data collection at wastewater treatment plant (WWTP) to advance the focused feasibility study
 - Seep samples
 - Soil borings in seepage beds
- Accelerated data collection at Aircraft Alert Area to support the interim remedial action
 - Vertical aquifer sampling (VAS)



● Proposed Soil Boring



PFAS Aircraft Alert Area (AAA) IRA Progress



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Interim Remedial Action Alert Aircraft Area

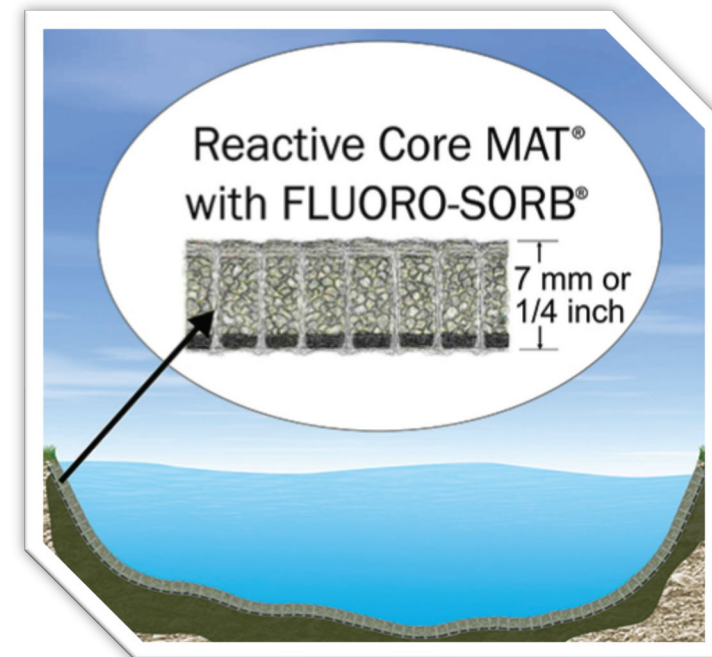


- **60% Design Drawings: completed**
- **90% Design Drawings: complete in May 2023**
- **Technical meeting between EGLE Water Resources Division (WRD) and Air Force on 27 January 2023 to discuss groundwater infiltration**
- **EGLE WRD supports groundwater infiltration approach**



Three Pipes Ditch Pilot Study Progress

- Access agreement between the Air Force and the USDA Forest Service is in progress
- Flow data will be evaluated from late-May 2023 throughout the summer months
- Flow-through system will be installed during low-flow conditions (to minimize disturbance):
 - Geotextile mat with 1/4-inch layer of Fluoro-Sorb® 400 (organoclay)
 - Filtration tubes (Fluoro-Sorb® 400 and pea gravel) will be placed horizontally across the study area



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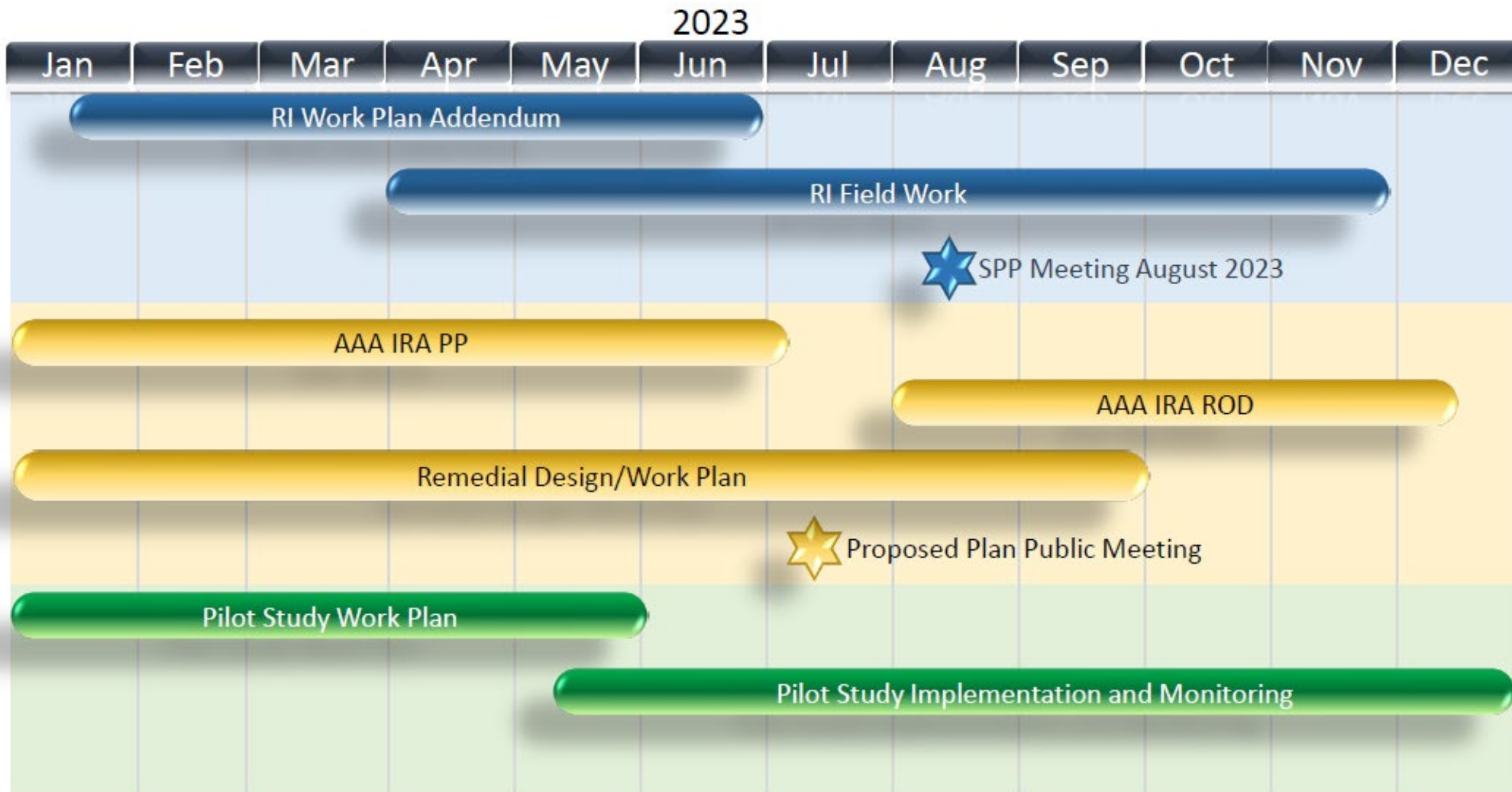
Three Pipes Ditch Pilot Study






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One Year Outlook

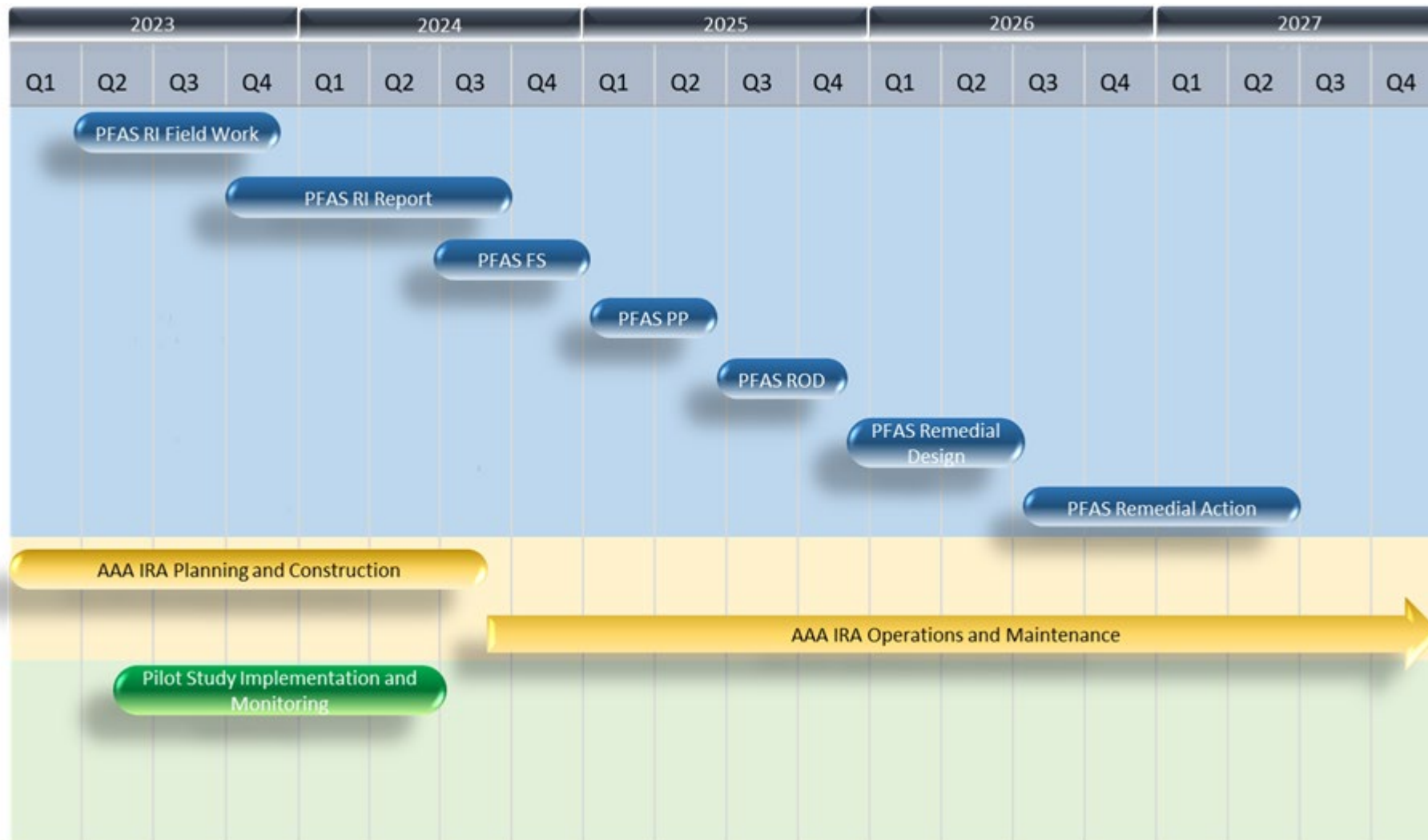


-  = PFAS RI Activity
-  = AAA IRA Activity
-  = Pilot Study Activity

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Five Year Outlook



- = PFAS RI Activity
- = AAA IRA Activity
- = Pilot Study Activity

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RAB

Member

Questions

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Public Comments

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Public Comment Period



Guidelines

- 01** | **Indicate you want to make a comment (follow guidance)**
- 02** | **Wait until the facilitator states you can start your comment**
- 03** | **Three minute time limit**
- 04** | **RAB members will confer after your comment to see if a follow-up action is needed**

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Conclusion and Adjournment

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