

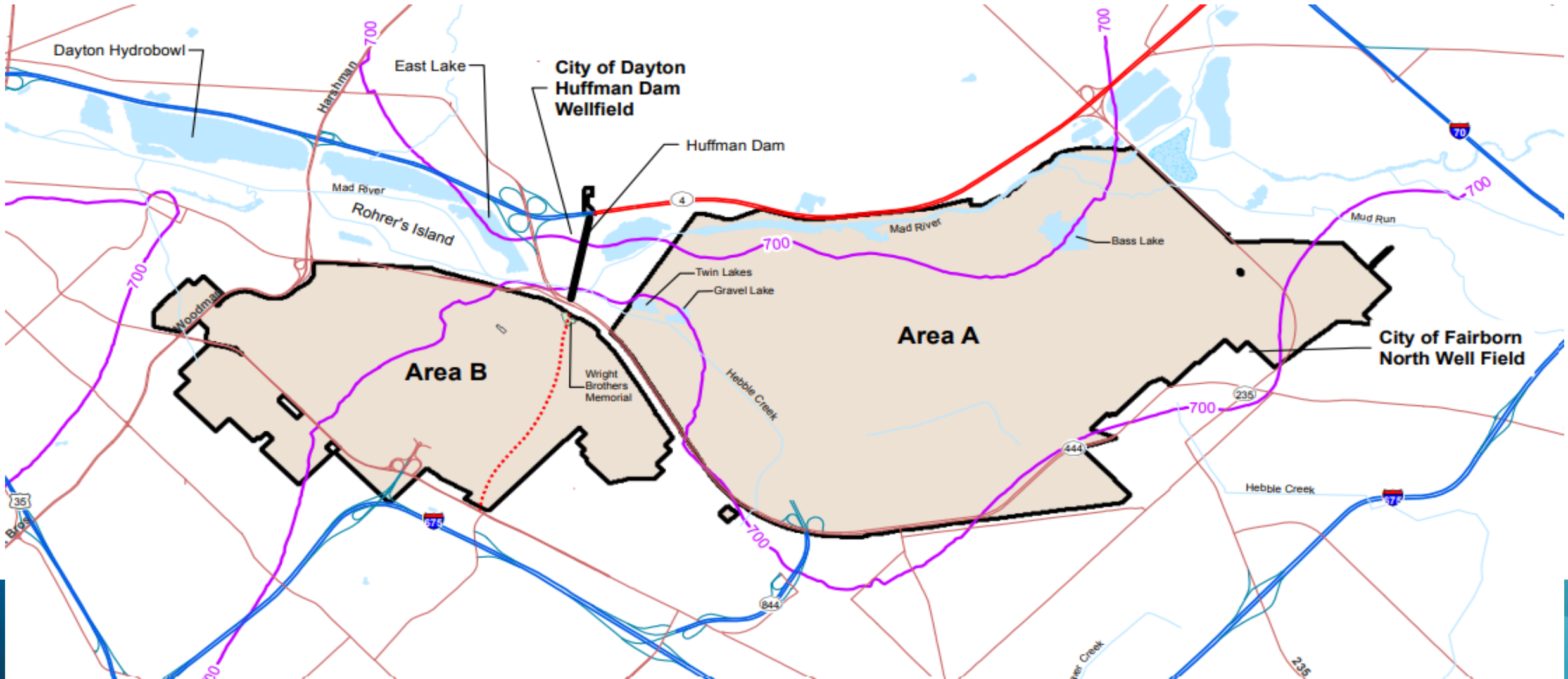


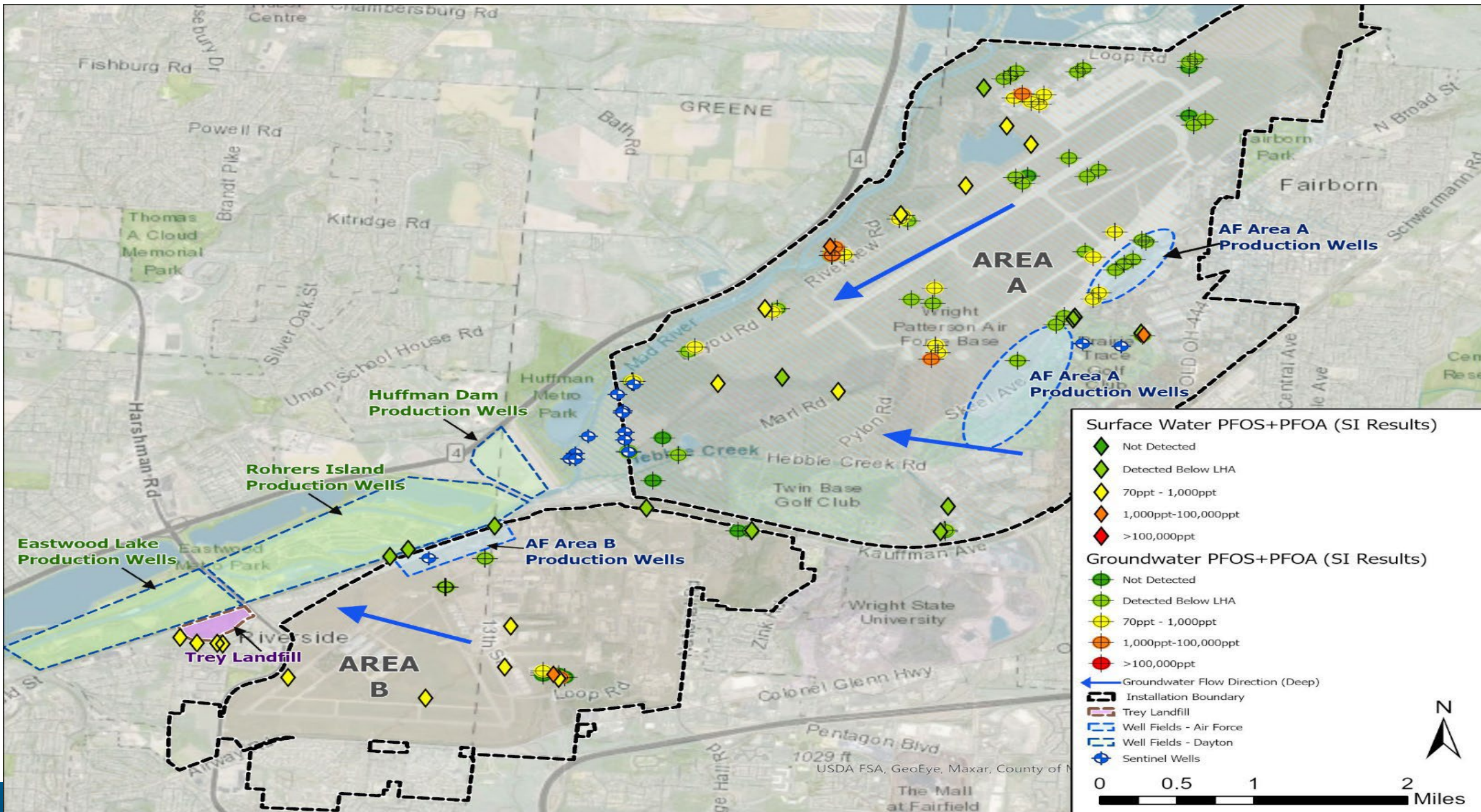
Wright Patterson Air Force Base

EI Worksheet / SWRAU Discussion

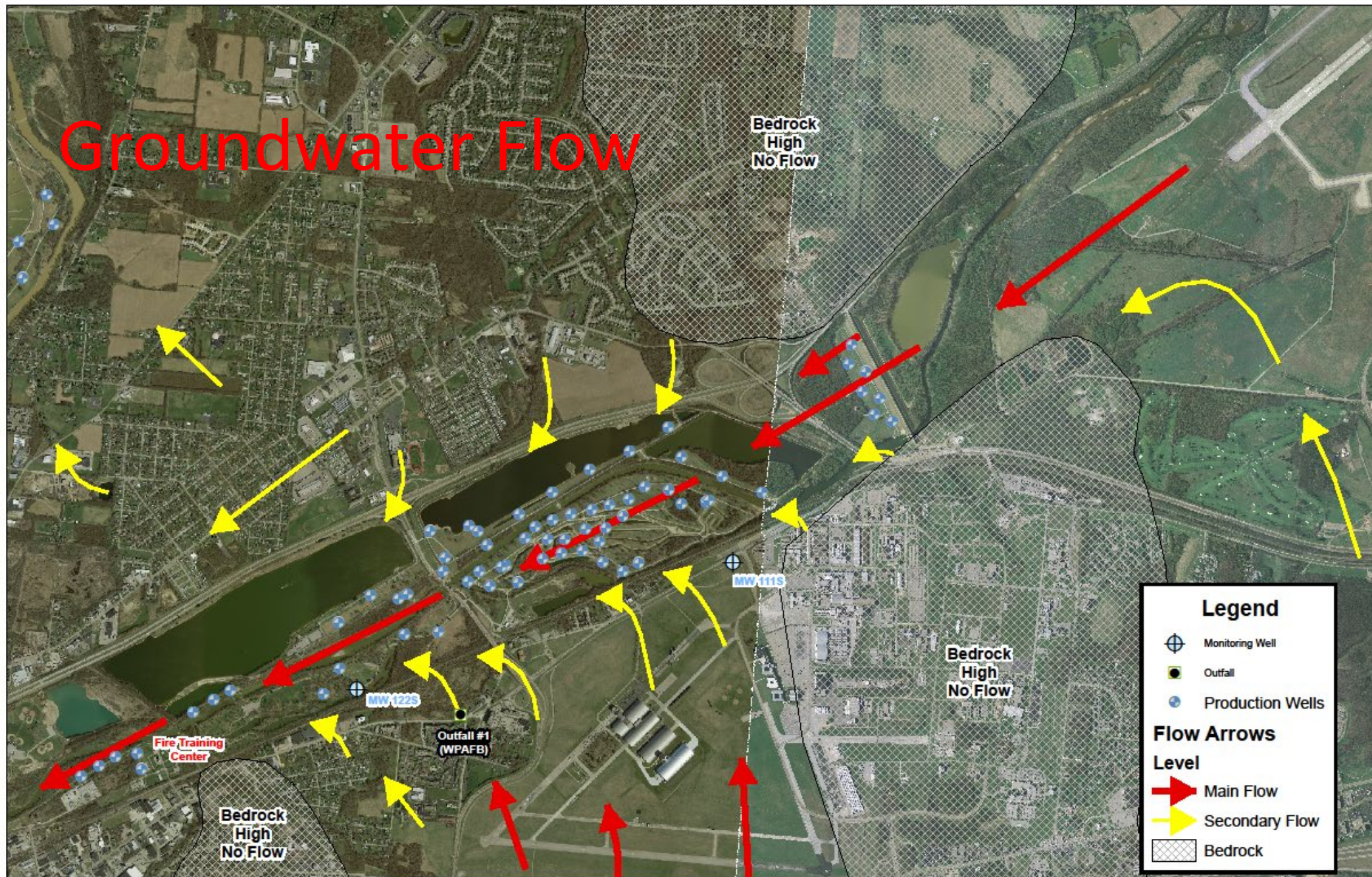
August 2024

WPAFB Boundaries and Water Resources





Groundwater Flow



AFFF Release Areas

Area A AFFF Release Areas

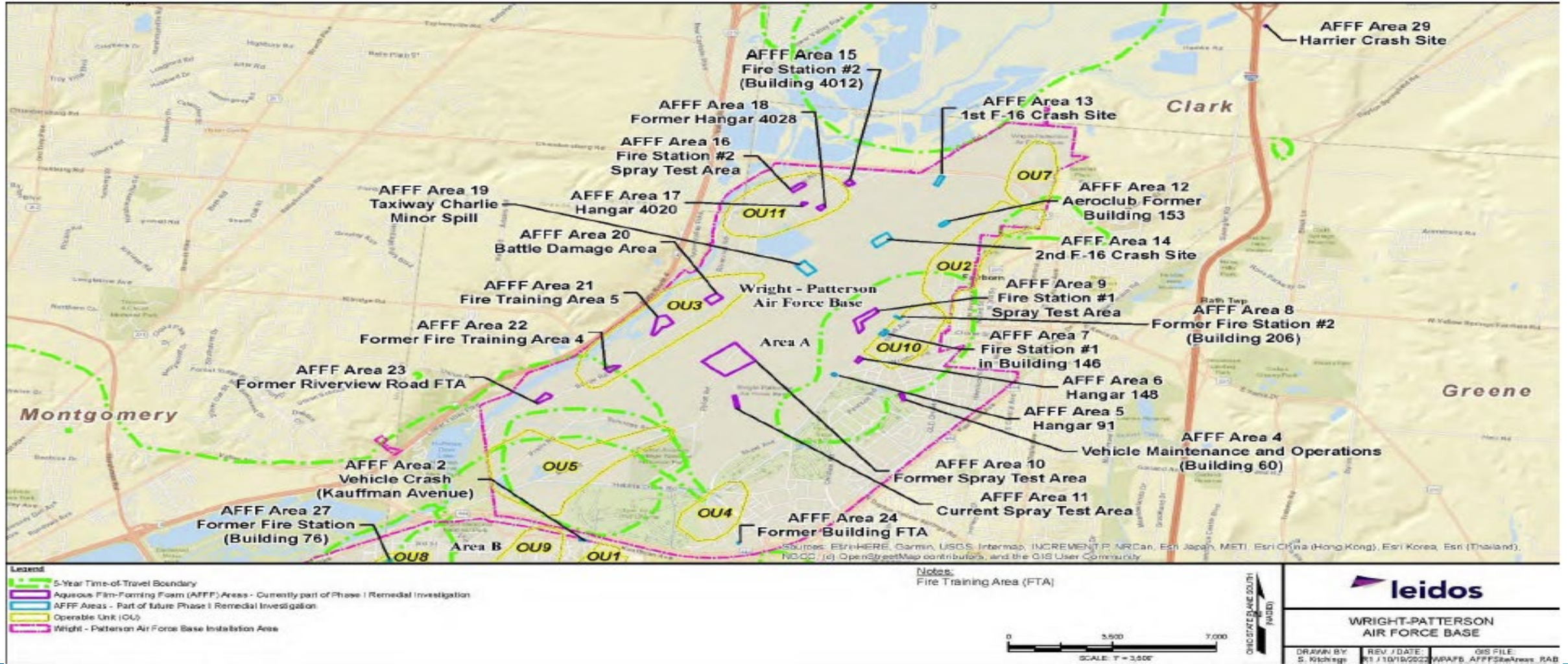
- AFFF Area 4 - Vehicle O&M (Building 60)
- AFFF Area 5 - Hangar 91
- AFFF Area 6 - Hangar 148
- AFFF Area 7 - Fire Station #1 (Building 146)
- AFFF Area 8 - Former Fire Station #2 (at Building 146)
- AFFF Area 9 - Fire Station #1 Spray Test Area
- AFFF Area 10 - Former Spray Test Area
- AFFF Area 11 - Current Spray Test Area
- AFFF Area 12 - Aeroclub (Former Building 153)
- AFFF Area 13 - 1st F-16 Crash Site
- AFFF Area 14 - 2nd F-16 Crash Site
- AFFF Area 15 - Fire Station #2 (Building 4012)
- AFFF Area 16 - Fire Station #2 Spray Test Area
- AFFF Area 17 - Hangar 4020

- AFFF Area 18 - Former Hangar 4028
- AFFF Area 19 - Taxiway Charlie Minor Spill
- AFFF Area 20 - Battle Damage Area
- AFFF Area 21 - FTAs 2, 5, and Current
- AFFF Area 22 - Former FTAs 3 and 4
- AFFF Area 23 - Former Riverview Road FTA and EOD Range
- AFFF Area 24 - Former Building FTA
- AFFF Area 29 - Harrier Crash (1997)
(2.5 miles NE of Area A)

Area B AFFF Release Areas

- AFFF Area 1 - Hazardous Materials Storage Area
(Buildings 478 and 479)
- AFFF Area 2 - Vehicle Crash (Kauffman Avenue)
- AFFF Area 27 - Former Fire Station (Building 76)
- AFFF Area 30 - Research Survivability Test Range

AFFF Site Locations: Area A



AFFF Site Locations: Area B



- Legend**
- - - 5-Year Time-of-Travel Boundary
 - Aqueous Film-Forming Foam (AFFF) Areas - Currently part of Phase I Remedial Investigation
 - AFFF Areas - Part of future Phase I Remedial Investigation
 - Operable Unit (OU)
 - Wright - Patterson Air Force Base Installation Area

Sources: Esri, HERE, Garmin, USGS, Imagmap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

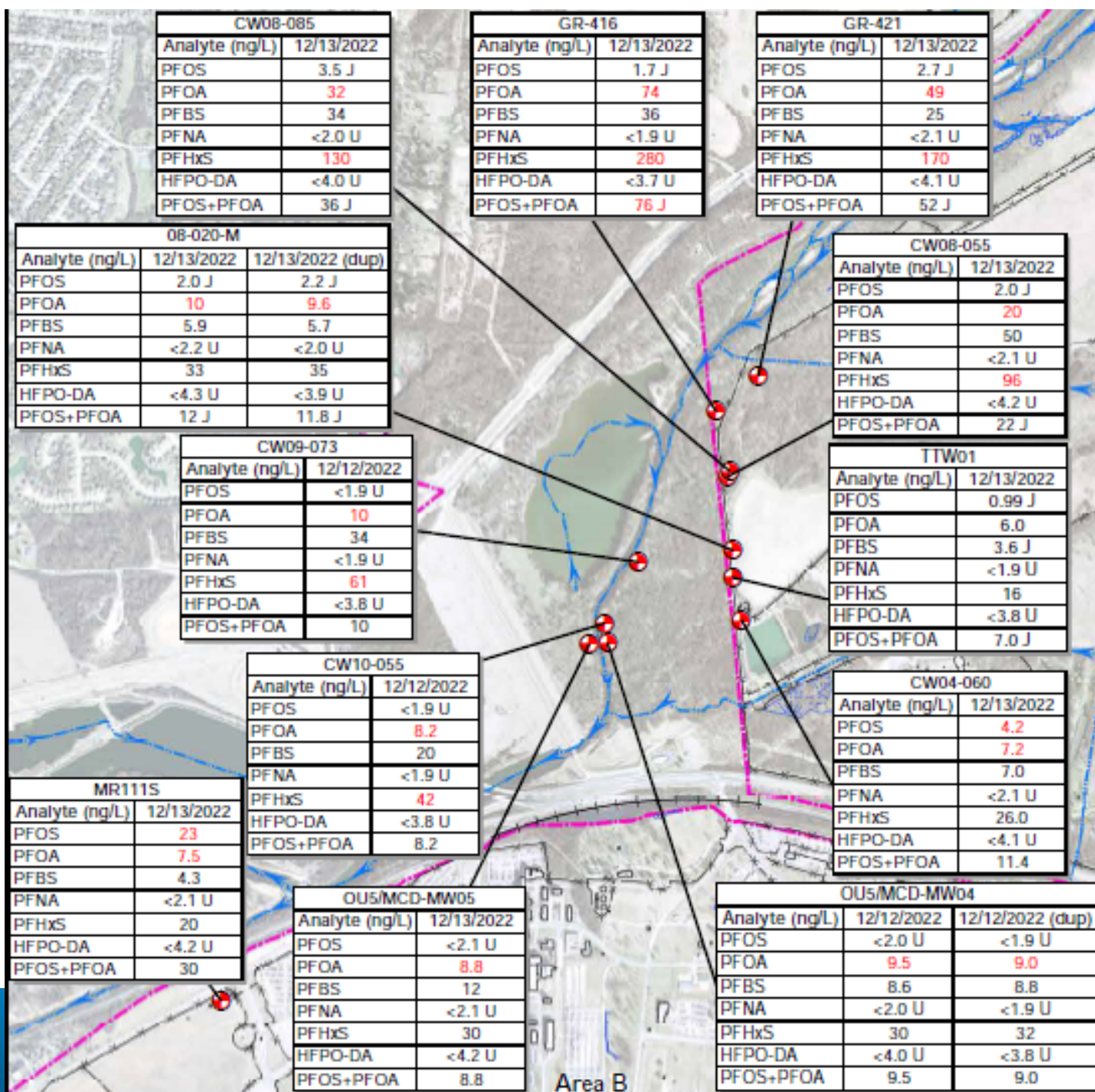
Notes:





**WRIGHT-PATTERSON
AIR FORCE BASE**

DRAWN BY: S. Kivnigc	REV. / DATE: 01 / 10 / 2023	GIS FILE: WP&FR_AFFF02a2aas_R&F
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Previous EI Worksheet Designations

	2005	2012	2023
Long-Term Human Health Protection	Current Human Exposures Controlled (HEUC)	Current Human Exposures Controlled and Protective Remedy in Place (HEUC-HEPR)	Current Human Exposures Controlled and Protective Remedy in Place (HEUC-HEPR)
Ground Water Under Control	Contaminated Groundwater Migration Under Control (GMUC)	Contaminated Groundwater Migration Under Control (GMUC)	Contaminated Groundwater Migration Under Control (GMUC)

Long-Term Human Health Protection

Step 1. Is there sufficient known and reliable information to make an evaluation on human exposure at this site?

- Yes, Fifth Unregulated Contaminant Monitoring Rule Data, updated May 16, 2024.

PWS ID	PWS Name	Contaminant	Result (µg/L)	Collection Date	Sample Point N	Facility Water Type
OH2903312	WRIGHT-PATTERSON AFB AREA B PWS	PFBA	0.0050	2/6/2024	BLDG 20085A	GW
OH2903312	WRIGHT-PATTERSON AFB AREA B PWS	PFBA	0.0050	2/6/2024	BLDG 20453	GW
OH2903312	WRIGHT-PATTERSON AFB AREA B PWS	PFBS	0.0047	2/6/2024	BLDG 20085A	GW
OH2903312	WRIGHT-PATTERSON AFB AREA B PWS	PFBS	0.0048	2/6/2024	BLDG 20453	GW
OH2903312	WRIGHT-PATTERSON AFB AREA B PWS	PFHxS	0.018	2/6/2024	BLDG 20085A	GW
OH2903312	WRIGHT-PATTERSON AFB AREA B PWS	PFHxS	0.019	2/6/2024	BLDG 20453	GW
OH2903312	WRIGHT-PATTERSON AFB AREA B PWS	PFOA	0.0054	2/6/2024	BLDG 20085A	GW
OH2903312	WRIGHT-PATTERSON AFB AREA B PWS	PFOA	0.0054	2/6/2024	BLDG 20453	GW
OH2903312	WRIGHT-PATTERSON AFB AREA B PWS	PFOS	0.013	2/6/2024	BLDG 20085A	GW
OH2903312	WRIGHT-PATTERSON AFB AREA B PWS	PFOS	0.014	2/6/2024	BLDG 20453	GW

Long-Term Human Health Protection

Step 2. Have all long-term human exposure-related cleanup goals been met for the entire site?

- No.

Area B (Building 20453)			
Contaminant	Result (ng/L)	MCL (ng/L)	RSL (ng/L) (May 2024)
PFBA	5	-	1800
PFBS	4.8	-	600
PFHxS	19	10	39
PFOA	5.4	4	0.00270
PFOS	14	4	0.2

Area B (Building 20085A)			
Contaminant	Result (ng/L)	MCL (ng/L)	RSL (ng/L) (May 2024)
PFBA	5	-	1800
PFBS	4.7	-	600
PFHxS	18	10	39
PFOA	5.4	4	0.00270
PFOS	13	4	0.2

Long-Term Human Health Protection

Step 3. Are there complete human exposure pathways between contaminated groundwater, soil, surface water, sediment, or air media and human receptors such that exposures can be reasonably expected under current conditions?

- Yes.

Step 4. Are the actual or reasonably expected human exposures associated with the complete pathways identified in Step 3 within acceptable limits under current conditions.

- No.

EI Worksheet Designations

	2005	2012	2023	2024
Long-Term Human Health Protection	Current Human Exposures Controlled (HEUC)	Current Human Exposures Controlled and Protective Remedy in Place (HEUC-HEPR)	Current Human Exposures Controlled and Protective Remedy in Place (HEUC-HEPR)	Current Human Exposures Not Controlled (HENC)
Migration of Contaminated Groundwater Under Control	Contaminated Groundwater Migration Under Control	Contaminated Groundwater Migration Under Control	Contaminated Groundwater Migration Under Control	

Migration of Contaminated Groundwater Under Control

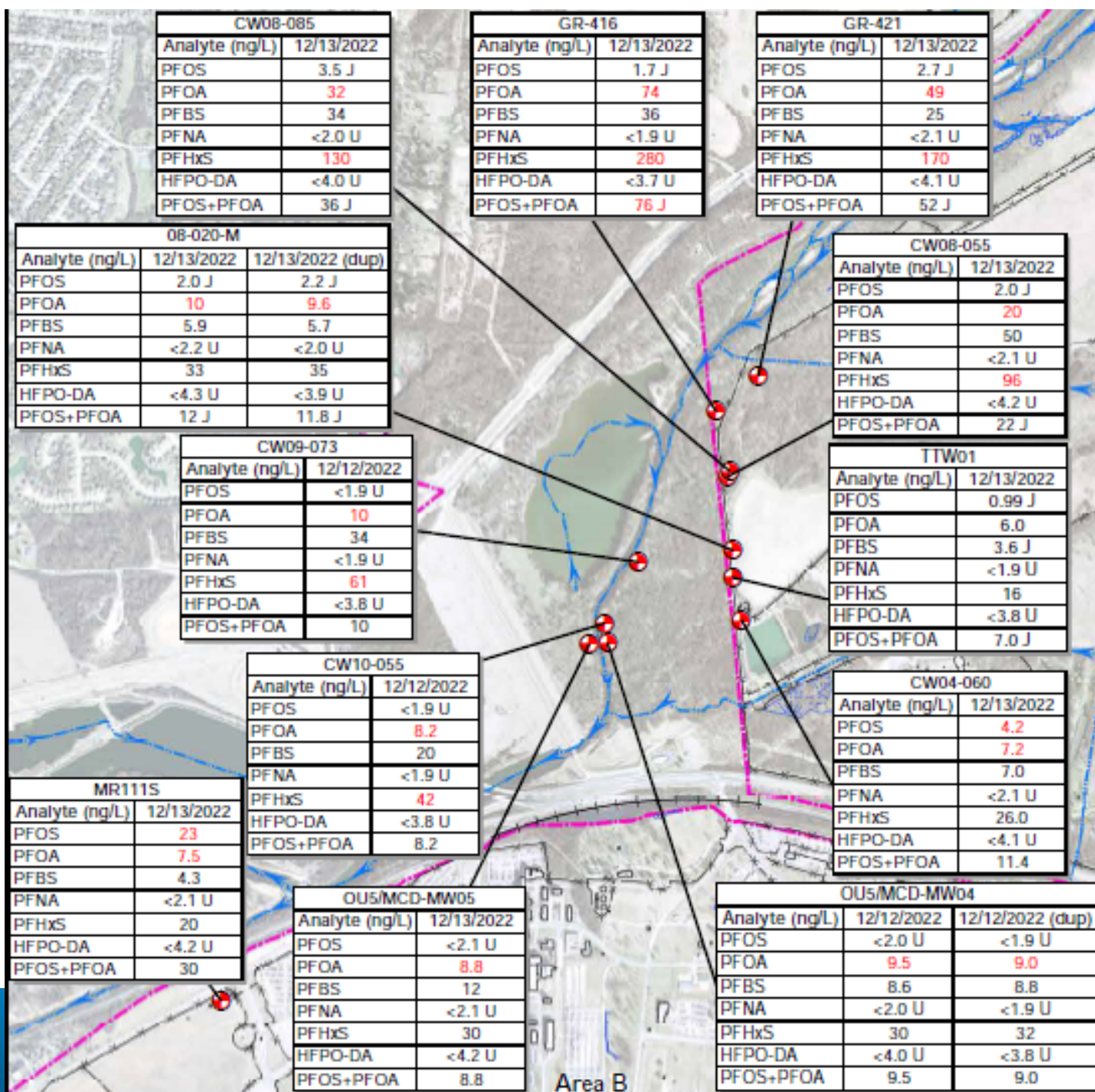
Step 1. Based on the most current data on the site, has all available relevant/significant information on known and reasonably suspected releases to groundwater been considered in this EI determination?

- Yes.
 - Final Annual Long-Term Groundwater Monitoring Report: 2021, Long-term Monitoring Program, dated August 2023
 - 2022 Annual Groundwater Sampling Report, Perimeter Well Sampling for PFAS, dated March 19, 2024

Migration of Contaminated Groundwater Under Control

Step 2. Is groundwater known or reasonably suspected to be contaminated above appropriately protective risk-based levels (applicable promulgated standards, as well as other appropriate standards, guidelines, or criteria) anywhere at or from the site?

- Yes.



Migration of Contaminated Groundwater Under Control

Step 3. Is the migration of contaminated groundwater stabilized (such that contaminated groundwater is expected to remain within “the existing area of contaminated groundwater”) as defined by the monitoring locations designated at the time of this evaluation?

- No.

EI Worksheet Designations

	2005	2012	2023	2024
Long-Term Human Health Protection	Current Human Exposures Controlled (HEUC)	Current Human Exposures Controlled and Protective Remedy in Place (HEUC-HEPR)	Current Human Exposures Controlled and Protective Remedy in Place (HEUC-HEPR)	Current Human Exposures Not Controlled (HENC)
Migration of Contaminated Groundwater Under Control	Contaminated Groundwater Migration Under Control	Contaminated Groundwater Migration Under Control	Contaminated Groundwater Migration Under Control	Contaminated Groundwater Migration Not Under Control (GMNC)



SWRAU Status ?

- Yes, WPAFB was previously provided SWRAU Status
- This determination was based on past information
- EPA will retract the SWRAU as site conditions have changed – as new contamination was discovered and requirements are no longer met
- WPAFB can be re-designated as SWRAU when the requirements outlined in the guidance are met.

SWRAU Status?

Site Name ▲	CERCLIS ID ⚙	City ⚙	State ⚙	SWRAU Date ⚙	Federal Facility Status ⚙	Retracted ⚙	Reuse Status ⚙	SWRAU Site Acreage ⚙	Additional Information ⚙
WRIGHT-PATTERSON AIR FORCE BASE	OH7571724312	Dayton	OH	9/25/2012	Y	N	Continued Use	8511.00	Site Progress Profile



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