#### **Air Force Installation & Mission Support Center**



# Wurtsmith Restoration Advisory Board Meeting

Steven Willis AFCEC/CIBC 20 Nov 2024



#### 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 \*5 to raise your hand, \*6 to unmute/mute
- ✓ RAB Members mute when not speaking
- ✓ Use "raise hand" to ask a question or provide a comment
- **✓ 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 <u>wendi.michael@wsp.com</u>





- Welcome and introductions
- DAF Senior Leadership Introduction
- RAB member updates
- RAB business
- Alert Aircraft Area PFAS IRA update
- Vapor Intrusion Remedial Investigation update
- Project forecasts
- RAB member questions
- Public comment period
- Conclusion RAB Co-Chairs' closing remarks
- Adjournment

(Note: acronym list provided in backup slides)





## RAB Member Updates



#### Interim Remedial Actions

- AAA Ongoing
  - Construction underway with target for start of operations by 31 Dec 2024
  - Summary of 13 Nov 2024 DAF technical meeting later in agenda

#### DRMO/Landfills 030/031 – New

- Contract awarded 27 Sept 2024
- Implements results of Critical Process Analysis (CPA) including pre-design investigation, design, construction, and one year of startup operations

#### WWTP/3-Pipes – Planned

- CPA Phase II awarded 25 Sept 2024
- Results expected by 15 Dec 2024; will be used to scope the design/construction of IRA in accordance with CPA recommendations



#### PFAS Remedial Investigation

- Delineation of full nature and extent of contaminants will continue in 2025
- A draft Preliminary Characterization Summary Report\*, following USEPA RI Guidance, is under Air Force review
  - \*PCSR provides descriptive and analytical results of initial site characterization. It provides a summary of site data and can assist in identification of ARARs
- RI data gaps being identified with input from EGLE and the RAB
- Contract to complete RI expected to begin in early 2025
- RI Report and baseline risk assessments will incorporate all RI data to complete Feasibility Study, Proposed Plan and Final Record(s) of Decision



#### BRAC Cleanup Team (BCT) Update



- Aug 2024 BCT meeting summary
  - EGLE Part 201 criteria for site SS057: aesthetic-based vs health-based
  - Health-based values are appropriate as CERCLA cleanup criteria to be protective of human health and the environment
  - Decision document called out aesthetic-based criteria as the Cleanup Criteria
  - DAF evaluating the appropriate documentation to change the criteria and potentially the remedy and will present to EGLE



#### BRAC Cleanup Team (BCT) Update



- Sep 2024 BCT meeting summary
  - DAF proposed discontinuing pumping groundwater for extraction well #8 at the LF030/031 engineered wetland treatment system
  - System designed to remove volatile organic compounds and metals
  - Twelve years of monitoring data shows groundwater at extraction well #8 has achieved remedial action objective in record of decision
    - VOCs have been below Part 201 aesthetic residential drinking water criteria and groundwater-surface water interface criteria since 2012 and non-detect since 2014
    - Metals have been below part 201 aesthetic residential drinking water criteria since 2014
  - Final decision pending EGLE review/concurrence



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

#### **EGLE Updates**

Amy Handley
Project Manager
RRD, Superfund Section
Handleya@michigan.gov | 517-898-3356



#### Recent EGLE RRD Activities

- August and October BCT meetings
- Attended AAA IRA Noblis Review on NOV 13
- Received fourth quarter vapor pin and indoor air data
- DGI meeting in August
- Meeting with NOW on NOV 8
- Documents reviewed:
  - VI RI QAPP Addendum 2
  - 2022 PTA RAO

- Documents backchecked:
  - VI RI QAPP Addendum 1
  - 2021 PTS RAO
  - MMRP QAPP
  - AAA IRA Draft Work Plan
- Brought on a new contractor for technical support



#### **Upcoming Activities**

- Continue to collaborate with Air
   Force and contractors for developing the DGI work plan
- Expect further discussion with the Air Force on the dispute resolution that was submitted in October
- BCT meetings to resume in 2025, refined focus for these meetings
- EGLE contractors coming onboard and reevaluating historic information

- Additional documents for review or backcheck
  - Five-Year Review expected early 2025
  - Review of LTM and PTS annual reports
  - BECOS QAPP Addendum PFAS
  - Preliminary Characterization Summary (with Risk Assessment) VI QAPP
  - AddendumSS-72 updated FS





#### RAB Member Updates



















### RAB Business



#### Action Items

- Virtual meetings conducted 30 days after each RAB meeting
  - Discuss
  - Last meeting 18 Sep 2024 at 6 p.m.
  - Next meeting 11 Dec 2024 at 6 p.m.

#### Status since 21 Aug 2024 RAB meeting

- Opened 11: 150-160
- Closed 5: 104A-D, 125
- Ongoing 40: 87, 88, 92, 96, 99, 102, 105-106, 109-110, 113, 116, 117, 119-120, 123-124, 131, 133-134, 141-160



- Technical Assistance for Public Participation (TAPP)
  - DoD tool to provide RABs with technical assistance during environmental cleanup
  - Includes assistance with interpreting technical documents, assessing technologies, explaining risk assessments, and training
  - RAB completes application with the type of assistance needed
  - DAF awards contract for requested assistance
  - TAPP website at <a href="https://www.acq.osd.mil/eie/eer/ecc/pfas/po/cip-rab-tapp.html">https://www.acq.osd.mil/eie/eer/ecc/pfas/po/cip-rab-tapp.html</a>
  - Additional details provided in Backup slides





## Alert Aircraft Area Interim Remedial Action

#### **Air Force Installation & Mission Support Center**



## DAF Review of Former Wurtsmith AFB Interim Remedial Action at the Alert Aircraft Area

USAF AFCEC/CZTE
20 Nov 2024



### Alert Aircraft Area (AAA) Interim Remedial Action (IRA) Review BLUF

BLUF: Continue construction and operation of the IRA pump and treat system at the AAA Site as currently planned.

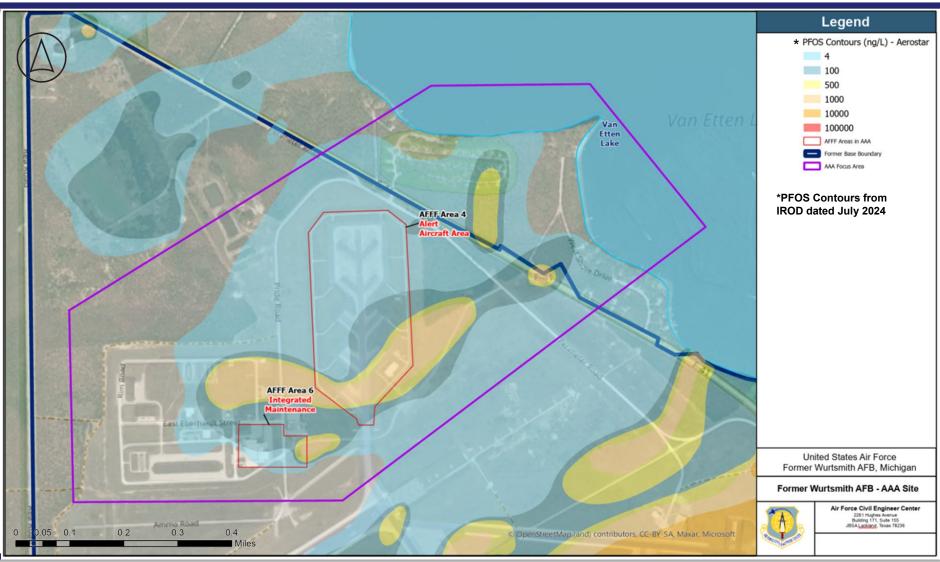
- Once operating, performance monitoring data and results of additional field studies should be used to evaluate and optimize system effectiveness to assure that PFAS migration across F-41 at North Swise Road associated with the AAA Site is effectively contained.
- DAF and Noblis team presented the findings of a technical review of the AAA site on 13 Nov 2024. Key takeaways are discussed here.



#### AAA Site Focus Area



- Figure showing PFOS impacted areas\* at the AAA site
  - Temporal, composite depiction of impacted areas



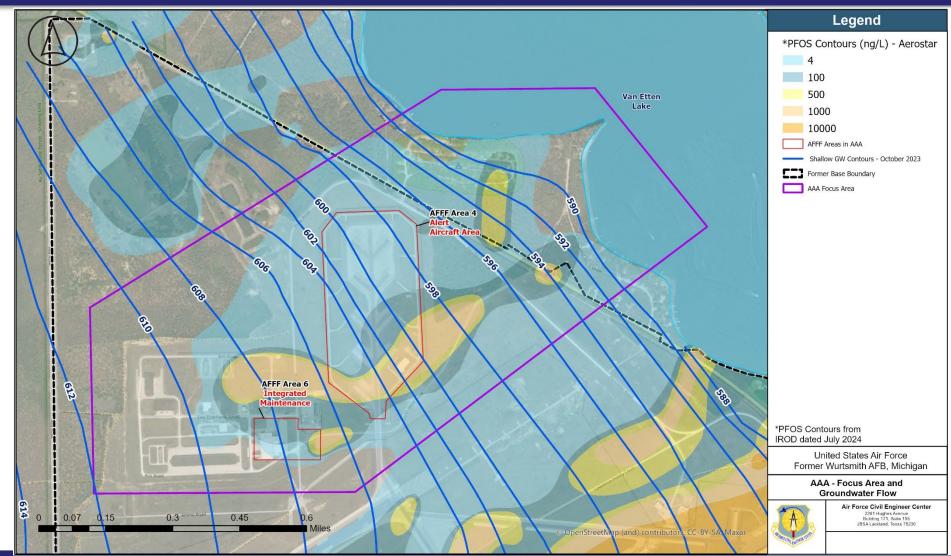
\*PFOS contours from IROD dated July 2024



### AAA Focus Area and Groundwater Flow



Focus area
 based on
 groundwater
 flow and PFOS
 impacted areas



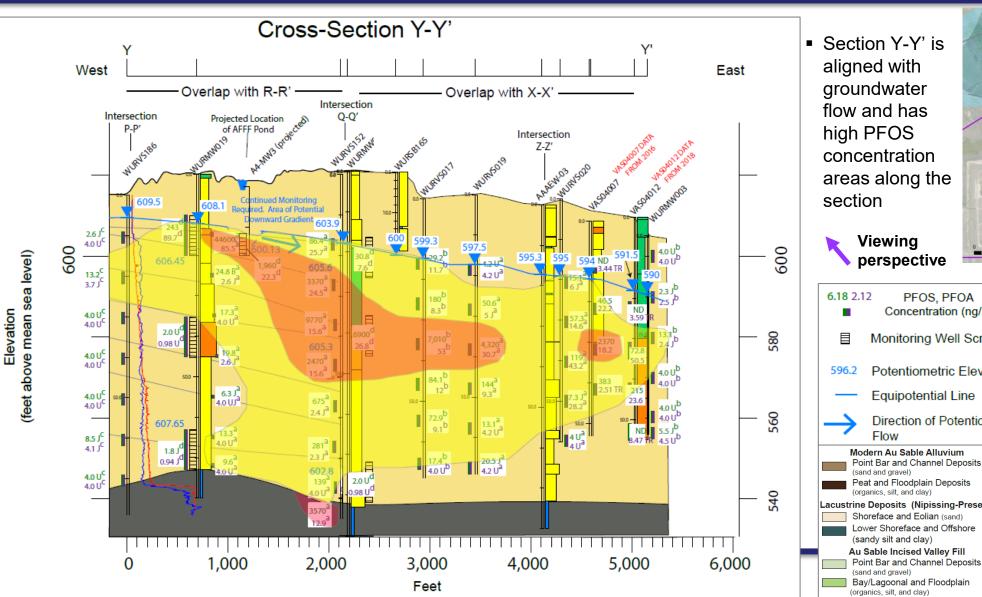
AAA – Alert Aircraft Area
PFOS – perfluorooctanesulfonic acid



#### **Cross-Section Y-Y'**



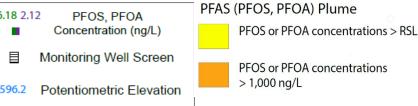
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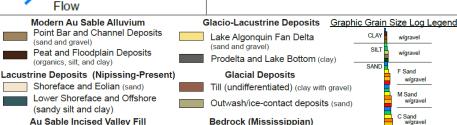
Section Y-Y' is aligned with groundwater flow and has high PFOS concentration areas along the section



Viewing perspective







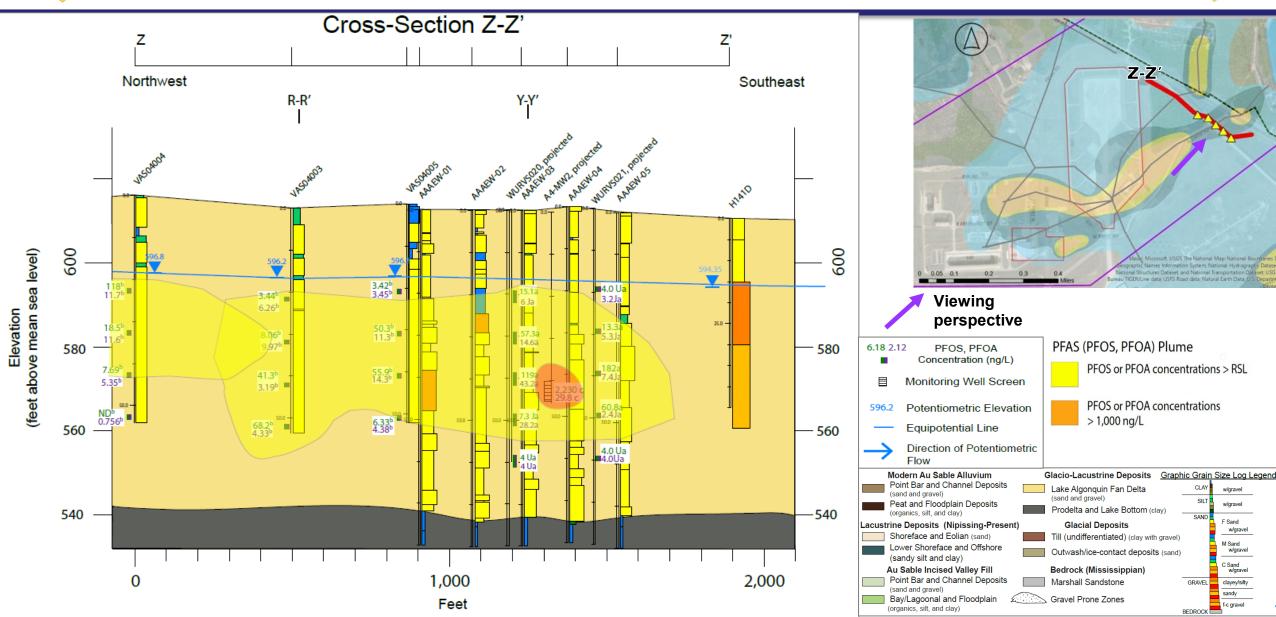
Marshall Sandstone

**Gravel Prone Zones** 



#### **Cross-Section Z-Z'**



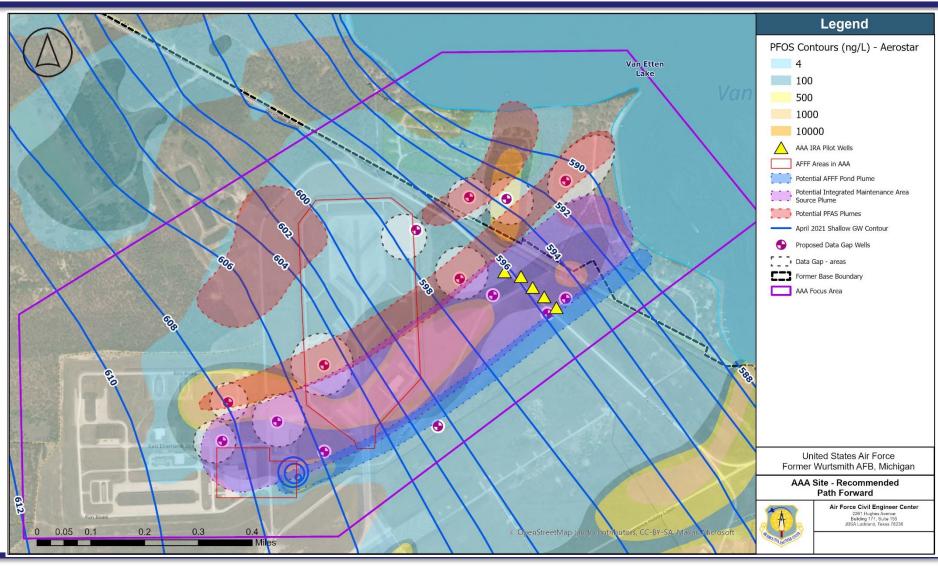




#### Potential Plume Configurations



- Map showing line of extraction wells (△) intercepting core of plume from Integrated Maintenance Facility
- Based on our technical review, additional areas and probable plume configurations warrant additional investigation.
- Proposed areas of investigation ( )





- The planned interim remedy at the AAA Site will reduce PFAS migration across F-41 at North Swise Road.
- The proposed extraction well layout will capture PFAS mass discharging from the integrated maintenance facility.
- Once operational, performance monitoring, capture zone analysis, and additional field efforts will provide crucial data to demonstrate system effectiveness and optimize its operation.

#### **Air Force Installation & Mission Support Center**



## Alert Aircraft Area Interim Remedial Action Construction Update

Paula Bond Project Manager 20 Nov 2024



#### AAA IRA Construction Update



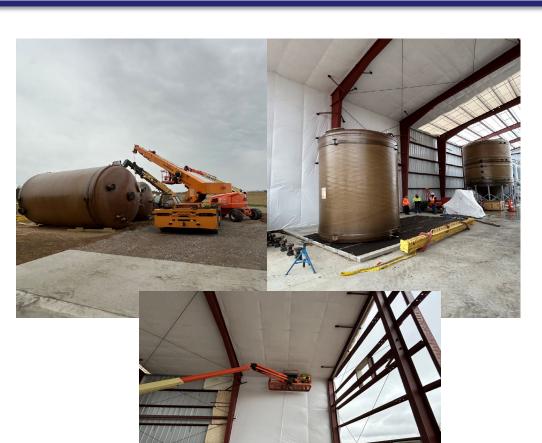
- The AAA IRA is designed to intercept the highest concentrations of PFAS by extracting and treating groundwater using granular activated carbon
- Construction and operation goals are on target
  - Construction began 29 Jul 2024
  - Operation start up expected by 31 Dec 2024



#### AAA IRA Construction Update







#### **Air Force Installation & Mission Support Center**



#### Vapor Intrusion Remedial Investigation Addendum Update

Celeste Holtz BB&E Project Manager



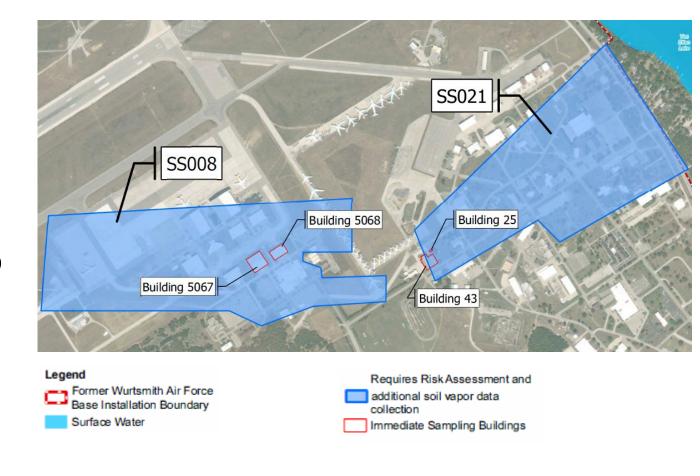


- RI being conducted in response to high VOC levels in soil gas sampling conducted between May 2020 and Feb 2021
- RI contract awarded in Sep 2022 with a multipurpose scope of work:
  - Perform immediate sampling at four buildings identified by MDHHS
  - Define the nature and extent of VOCs
  - Assess risks to human health and the environment
- 31 sites being investigated
  - Immediate sampling: Buildings 25, 43, 5067, and 5068 began in Aug 2023
  - Broader RI sampling upcoming in 2025





- Immediate sampling task included:
  - Interior Building Surveys
  - Vapor Pin® installation and quarterly sampling
  - Indoor & outdoor air quality sampling based on sub-slab Vapor Pin® data
- DAF has shared the quarterly data with EGLE, OWAA and their tenants







- Four quarters of sub-slab VP sampling have been completed:
  - Building 25: 2 sub-slab VP locations
  - Building 43: 16 sub-slab VP locations
  - Building 5067: 23 sub-slab VP locations
  - Building 5068: 16 sub-slab VP locations
- Based on Q1 results, three quarters of IAQ/OAQ sampling have been completed:
  - Building 25: 1 IAQ sample location during Q2, and 2 IAQ sample locations during Q3/Q4 (one from basement, one from the main floor)
  - Building 43: 4 IAQ sample locations
  - Building 5067: 5 IAQ sample locations
  - Building 5068: No IAQ sample locations (no sub-slab VP exceedances until Q4)





### Collected & analyzed samples using EPA established methodology

#### Project action levels:

#### Sub-slab VP data:

- EGLE Site-Specific Volatilization to Indoor Air Criteria (SSVIAC) used primarily to determine the extent of contamination as part of the RI.
- USEPA Vapor Intrusion Screening Levels (VISLs) used primarily for long-term risk assessment purposes.

#### IAQ data:

- USEPA VISLs for Indoor Air used for long-term risk assessment purposes and to determine if further evaluation is warranted.
- USEPA Removal Management Levels (RMLs) used to assess whether interim response actions may be warranted (e.g., deploying fans/blowers, air purifying units, etc.).





#### Q1-Q4 Immediate Sampling Results Summary

Building Number	Sub-slab	Indoor Air	Decision
SS021			
25	- TCE exceeded USEPA VISL and EGLE SSVIAC.  - Naphthalene exceeded EPA Commercial VISL and EGLE SSVIAC.	Three quarterly events conducted: - TCE exceeded USEPA RML Naphthalene exceeded USEPA Commercial Carcinogenic VISL.	The VI pathway is potentially complete; however, there is no receptor present (building not occupied). Interim response action has been completed with access to the building restricted. Recommended to continue to RI and HHRA.
43	- TCE exceeded USEPA Commercial VISL and EGLE SSVIAC.  - Chloroform exceeded EPA Commercial VISL and EGLE SSVIAC.	Three quarterly events conducted: - TCE exceeded USEPA Commercial Carcinogenic VISL.	The VI pathway is complete; however, TCE concentrations in IAQ samples are below USEPA RMLs, so no interim response action has been taken or is necessary. Recommended to continue to RI and HHRA.
SS008			
5067	- TCE exceeded USEPA Commercial VISL and EGLE SSVIAC. - cis-1,2-DCE exceeded EGLE SSVIAC.	Three quarterly events conducted: - No exceedances of the PALs.	The VI pathway is potentially complete. IAQ sample concentrations were below PALs, so no interim response action has been taken or is necessary.  Recommended to continue to RI and HHRA.
5068	- TCE exceeded USEPA Commercial VISL and EGLE SSVIAC.  - 1,1,2-TCA exceeded EGLE SSVIAC.  Both compounds only exceeded during the fourth quarter event.	No IAQ sampling was conducted due to no sub-slab VP exceedances during the first three events.	Fourth quarter data indicate the VI pathway potentially complete. Confirmation sampling of the sub-slab VPs with exceedances and collection of IAQ samples to determine the need for interim action was completed in October prior to continuing to RI and HHRA.





#### **Next Steps:**

- Quarterly summary reports have been prepared and submitted to project stakeholders (e.g., EGLE, airport, tenants).
  - An addendum will be completed for the Q4 report for Building 5068
- Additional field activities will continue as part of the overall remedial investigation
- After the remedial investigation field work is done the DAF will evaluate unacceptable long-term risks in the Risk Assessment phase of the CERCLA process.
- If an unacceptable long-term risk is identified, then DAF will conduct a feasibility study to determine a long-term solution to reduce the risk to the community and the environment.





- In addition to the Immediate Sampling Task, the Overall VI RI is in progress.
  - Uniform Federal Policy (UFP)-Quality Assurance Project Plan (QAPP)
     Addendum 1 was prepared to detail proposed VI RI activities for six additional sites (WP004, OT024, LF030/031, SS057, ST069, and SS072).
  - UFP-QAPP Addendum 2 is in progress to summarize the results of Phase 1 PSG Sampling activities at the three sites (Site 5, 8, and 21) and the AOIs and proposed Phase 2 Soil and Groundwater Sampling activities.
  - The field activities and results from Phase 1 activities at the additional sites and the Phase 1 activities at the original sites will be briefed at a future RAB Meeting.





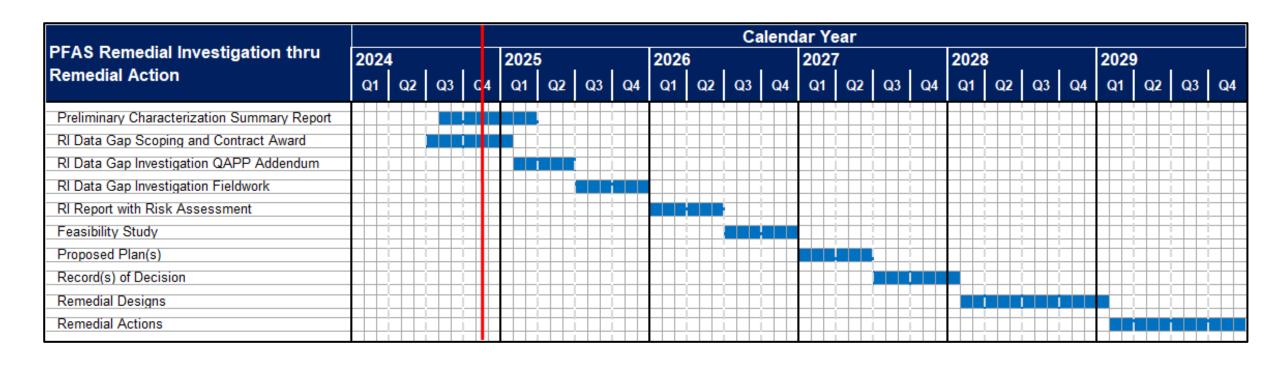
#### **Project Forecasts**





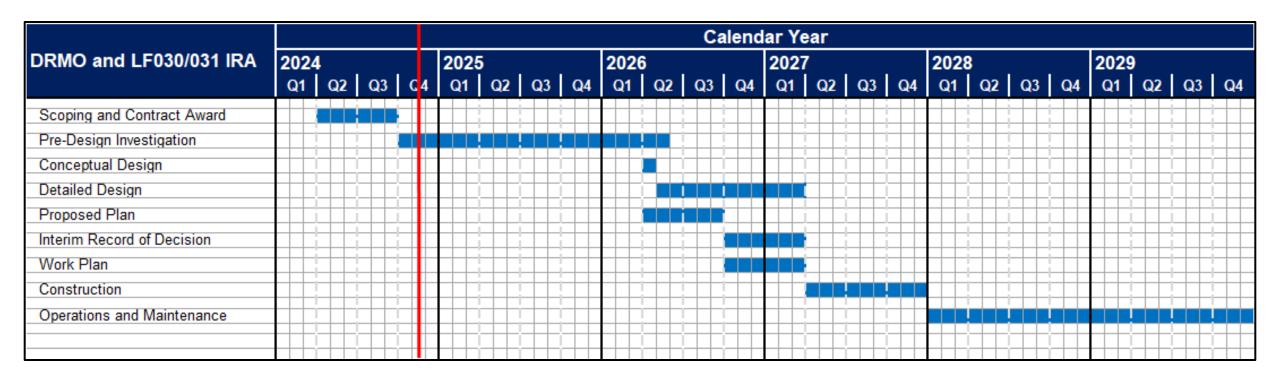
DEAC Demodial Investigation thru Demodial				Ci	alen	da	ar Ye	ar	
PFAS Remedial Investigation thru Remedial	2	202	4		202	25			
Action		Q3		C 4	Q1		Q2	Q3	Q4
RI Transducer Monitoring			Ė			ġ			
Preliminary Characterization Summary Report	t		Ú			Ú			
RI Data Gap Scoping and Contract Award			Ó			ij			
RI UFP-QAPP Addendum for Data Gap Investigation	t		t						
RI Data Gap Fieldwork	t		+			#			
	t		t						
Alert Aircraft Area IRA Construction			Ĥ			j			
Alert Aircraft Area IRA Operations and Maintenance	t		t						
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DRMO and LF030/031 Pre-Design Investigation Fieldwork	ŧ		÷			7			
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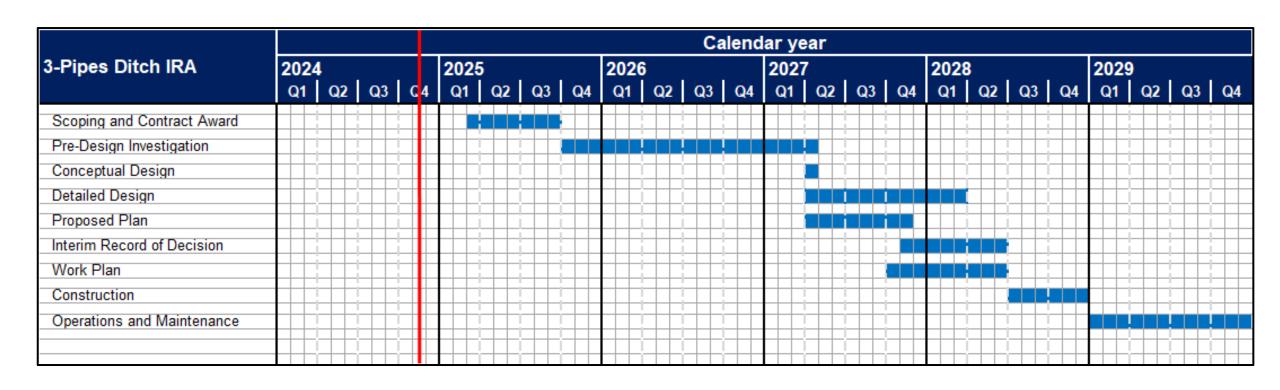




# Long Range Forecast DRMO & LF030/031 IRA

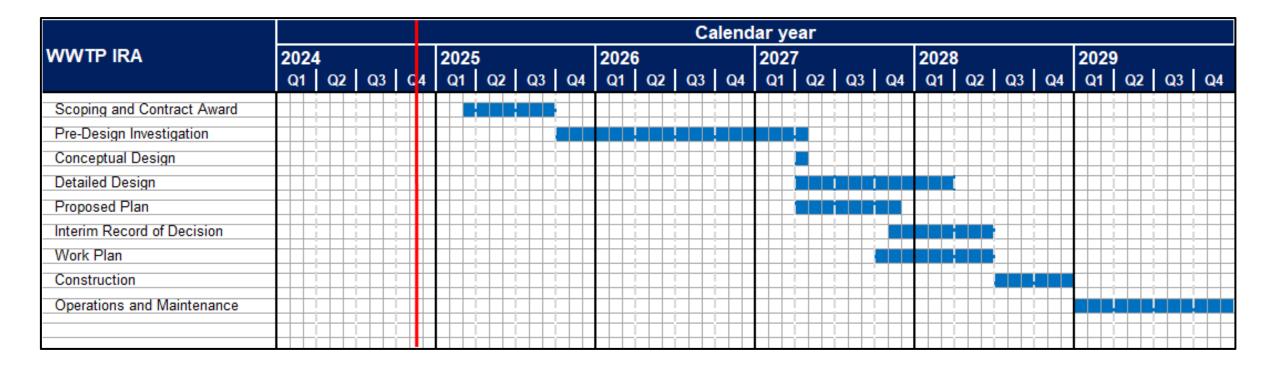








# Long Range Forecast Wastewater Treatment Plant IRA







# RAB Member Questions





#### **Guidelines**

- Indicate you want to make a comment (follow guidance)
- Wait until the facilitator states you can start your comment
- 03 Three minute time limit

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# Public Comments





### Conclusion







- Future RAB meeting schedule
  - 19 Feb 2025
  - 21 May 2025
  - 20 Aug 2025
  - 19 Nov 2025





# Adjournment



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# Backup



#### 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





AAA	Alert Aircraft Area
AFB	Air Force Base

AFCEC Air Force Civil Engineer Center aqueous film forming foam

AG Attorney General

ARAR Applicable or Relevant and Appropriate Requirements

BCT BRAC Cleanup Team

BECOS BRAC Environmental Construction and Optimization Services

BOA base operations area

BRAC Base Realignment and Closure

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CSM conceptual site model
CTS Central Treatment System
DAF Department of the Air Force

DOD Department of Defense

DRMO Defense Reutilization and Marketing Office

EGLE Michigan Dept of Environment, Great Lakes, and Energy ESTCP Environmental Security Technology Certification Program

FS feasibility study

IRA interim remedial action
IROD interim record of decision
LTM long-term management
MCL Maximum Contaminant Levels

MDHHS Michigan Department of Health and Human Services

MDNR Michigan Department of Natural Resources
MMRP Military Munitions Response Program

NCP National Contingency Plan ng/L nanograms per liter PA preliminary assessment PAL project action limit

PFAS per-and polyfluoroalkyl substances

PFOA perfluorooctanoic acid
PFOS perfluorooctane sulfonate
PFHxS perfluorohexane sulfonic acid
PFNA perfluorononanoic acid

PFNA perfluorononar PP proposed plan PSG passive soil gas

PTS pump and treatment system
QAPP Quality Assurance Project Plan

RA remedial action

RAB restoration advisory board remedial action operation

RD remedial design
RI remedial investigation
ROD record of decision
RSL regional screening level

SI site inspection

TAPP Technical Assistance for Public Participation

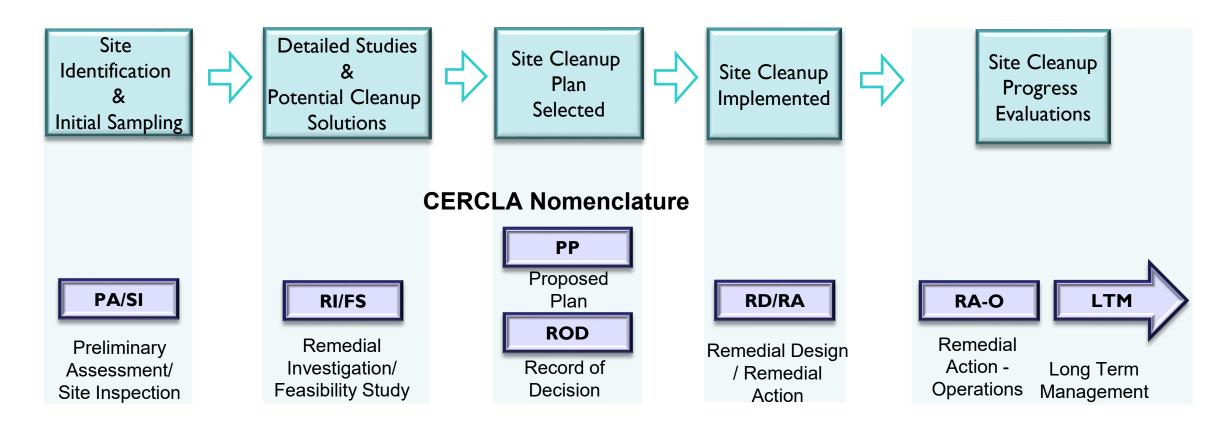
TCRA time critical removal action

USEPA U.S. Environmental Protection Agency

VEL Van Etten Lake VI vapor intrusion

VOC volatile organic compounds WRD Water Resources Division WWTP wastewater treatment plant micrograms per kilogram







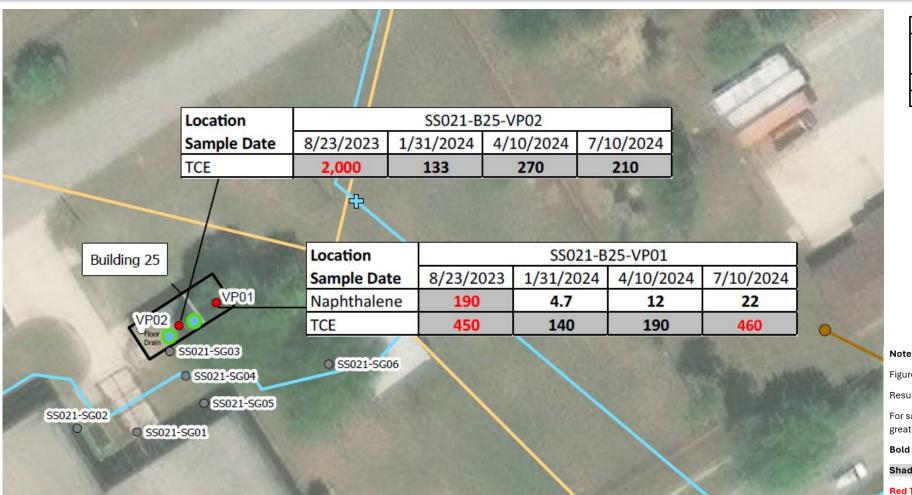
#### Vapor Intrusion RI Figures





#### SS021 - Bldg. 25 Sub-Slab VP Results, Q1 - Q4





	Project Action Leve	els
	EGLE Nonresidential	<b>USEPA Commercial</b>
Analyte	SSVIAC <sup>1</sup>	VISL <sup>2</sup>
Naphthalene	120	120
TCE	130	292

Building Boundary

Water Main

Interior Rooms

Storm Sewer Main

Existing Soil Gas Well Locations

— Sanitary Sewer Main

Sub-Slab Vapor Pin -Exceedance

IAQ Location

**Building 25 Features** 

Water Valve

Storm Sewer Manhole

Sanitary Manhole



Figure displays only the analytes that were above project action levels.

Results are in micrograms per cubic meter.

For sample where a field duplicate was collected and analyzed, the result with the greater concentration is shown.

Bold indicates the analyte was detected

Shading indicates the analyte exceeded EGLE Nonresidential SSVIAC

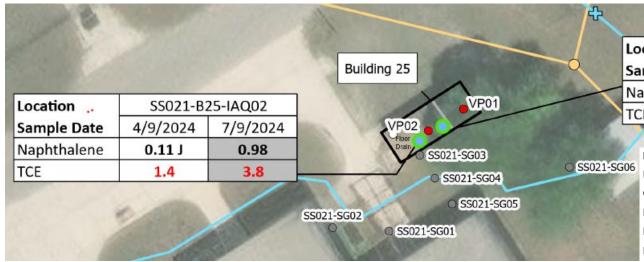
Red Text indicates the analyte exceeded USEPA Commercial VISLs



#### SS021 - Bldg. 25 IAQ Results, Q2 - Q4



		Project Action Levels		
Analyte	USEPA Commercial Carcinogenic VISLs <sup>1</sup>	USEPA Commercial Noncarcinogenic VISLs <sup>1</sup>	USEPA RML - Carcinogenic <sup>2</sup>	<u>USEPA RML -</u> <u>Noncarcinogenic<sup>2</sup></u>
Naphthalene	0.361	1.31	36.1	39.4
TCE	2.99	0.876	299	26.3



Location	SS	021-B25-IAQ	01
Sample Date	1/30/2024	4/9/2024	7/9/2024
Naphthalene	0.21 J	0.39	0.97
TCE	<u>54.3</u>	<u>50</u>	72
			SHOW THE PARTY OF THE PARTY.

#### Notes:

Figure displays only the analytes that were above project action levels.

Only compounds that exceeded sub-slab project action levels at the building are shown.

IAQ samples were not collected during Q1, as IAQ were only collected following a sub-slab soil gas sample exceedance.

IAQ02 location was added following the IAQ01 RML exceedance during Q2

IAQ samples were collected over an approximately 8-hour duration.

For sample where a field duplicate was collected and analyzed, the result with the greater concentration is shown.

Results are in micrograms per cubic meter.

#### Bold indicates the analyte was detected

Shading indicates the analyte exceeded USEPA Commercial VISLs - Carcinogenic

Red Text indicates the analyte exceeded USEPA Commercial VISLs – Noncarcinogenic

Italic indicates analyte exceeded USEPA RML – Carcinogenic

Underline indicates analyte exceeded USEPA RML - Noncarcinogenic

#### Legend

Building Boundary

Interior Rooms

- Existing Soil Gas Well Locations
- Sub-Slab Vapor Pin -Exceedance

- IAQ Location
- Building 25 Features
- Water Valve
- Storm Sewer Manhole
- Sanitary Manhole

A

Water Main

Storm Sewer Main

Sanitary Sewer Main

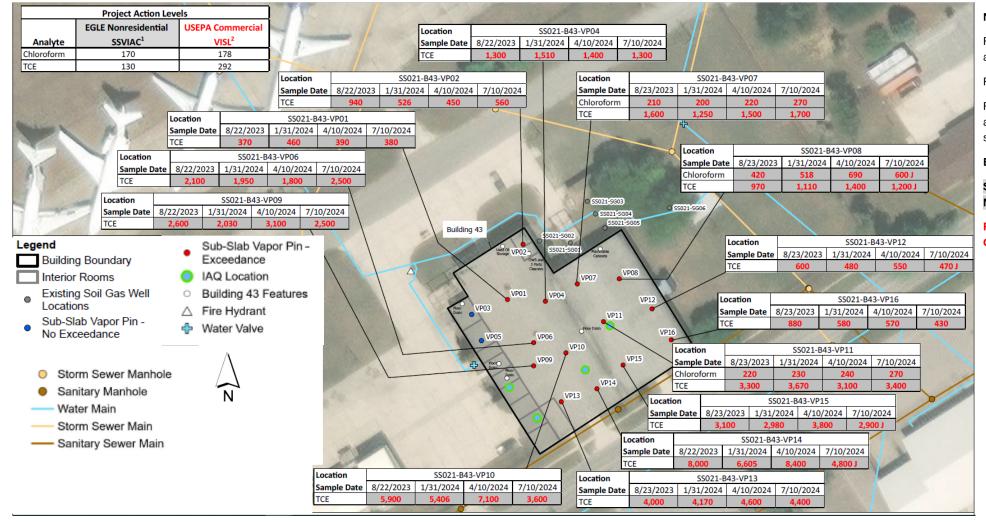
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#### SS021 - Bldg. 43 Sub-Slab VP Results, Q1 - Q4





#### Notes:

Figure displays only the analytes that were above project action levels.

Results are in micrograms per cubic meter.

For sample where a field duplicate was collected and analyzed, the result with the greater concentration is shown.

Bold indicates the analyte was detected

Shading indicates the analyte exceeded EGLE Nonresidential SSVIAC

Red Text indicates the analyte exceeded USEPA Commercial VISLs



#### SS021 - Bldg. 43 IAQ Results, Q2 - Q4



#### Notes:

Figure displays only the analytes that were above project action levels.

Only compounds that exceeded sub-slab project action levels at the building are shown.

IAQ samples were not collected during Q1, as IAQ were only collected following a sub-slab soil gas sample exceedance.

IAQ samples were collected over an approximately 8-hour duration.

For sample where a field duplicate was collected and analyzed, the result with the greater concentration is shown.

Results are in micrograms per cubic meter.

#### Bold indicates the analyte was detected

Shading indicates the analyte exceeded USEPA Commercial VISLs - Carcinogenic

Red Text indicates the analyte exceeded USEPA Commercial VISLs – Noncarcinogenic

Italic indicates analyte exceeded USEPA RML – Carcinogenic

<u>Underline indicates analyte exceeded USEPA RML - Noncarcinogenic</u>

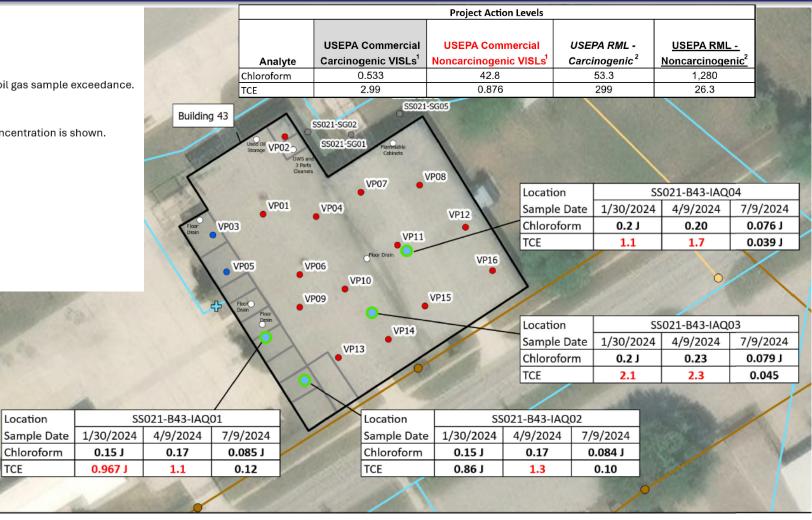
#### Legend

- Building Boundary
- Interior Rooms
- Existing Soil Gas Well Locations
- Sub-Slab Vapor Pin No Exceedance
- Sub-Slab Vapor Pin -Exceedance
- IAQ Location
- Building 43 Features
- Water Valve

Storm Sewer ManholeSanitary ManholeWater MainStorm Sewer Main

Sanitary Sewer Main





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#### SS008 - Bldg. 5067 Sub-Slab VP Results, Q1 - Q4

Sample Date 8/22/2023 1/31/2024 4/10/2024 7/10/2024



	Project Action Leve	els
	EGLE Nonresidential	<b>USEPA Commercial</b>
Analyte	SSVIAC <sup>1</sup>	VISL <sup>2</sup>
cis-1,2-DCE	820	5,840
TCE	130	292

# Location

Sample Dat

TCE 94 134 120 120	
Location SS008-B5067-VPI	8
Sample Date 8/23/2023 1/31/2024 4/11/	2024 7/10/2024
SS008-B5067-VP07 TCE 300 369 31	350
SS008-SG07	١
SS008-SG08	
School	The state of the s
Location	08-B5067-VP10
VP07 Sample Date 8/24/2023 1/31	
VP02 VP10 cis-1,2-DCE 1,300 7	
VP10 TCE 2,400 1,5	50 2,600 2,300
VP11 Hazardous Waste Storage Location	SS008-B5067-VP13
VP01 Sample Date 8/24/2023	1/31/2024 4/11/2024 7/11/2024
Cabineta cis-12-DCF 1300	603 1,300 1,300
TCE 1,600	1,350 2,100 2,000
VP15 VP18 Location	SS008-B5067-VP11
VP05 Sample Date 8/23/202	2/1/2024 4/11/2024 7/11/202
VP09 TCE 180	130 190 190
VP22	4
VP14	
Flammable VP21 Location	25000 05057 1/010
Sink Calabiles VD17	SS008-B5067-VP18
TCE FEO	31/2024 4/11/2024 7/11/2024 470 690 730
	470 890 730
VP12 Floor OFloor Drain Drain VP23	0
VP12 Drain OPBOT Drain VP23	

Location

Sample Date 8/24/2023

SS008-B5067-VP15

4/11/2024 7/11/2024

1/31/2024

#### Legend

- Building Boundary
- Interior Rooms
- PCE SG Impacts (1995)
- Existing Soil Gas Well
- Locations
- Sub-Slab Vapor Pin -No Exceedance
- Sub-Slab Vapor Pin -Exceedance
- IAQ Location
- Building 5067 Features
- △ Fire Hydrant
- Water Valve
- Storm Sewer Manhole
- Sanitary Manhole
- Trench Drain
- Utility Trench
- Water Main
- Storm Sewer Main
- Sanitary Sewer Main



#### Notes:

Figure displays only the analytes that were above project action levels.

Results are in micrograms per cubic meter.

For sample where a field duplicate was collected and analyzed, the result with the greater concentration is shown.

Bold indicates the analyte was detected

Shading indicates the analyte exceeded EGLE Nonresidential SSVIAC

Red Text indicates the analyte exceeded USEPA Commercial VISLs



#### SS008 - Bldg. 5067 IAQ Results, Q2 - Q4



			Project Action Levels				XX				189	1		Locand
	à								10		11 11 - 2 11			Legend
	6	USEPA Commercial	USEPA Commercial	USEPA RML -	USEPA RML -	Location	SSO	08-B5067-IAC	202			10000		Building Boundary
	Analyte	Carcinogenic VISLs1	Noncarcinogenic VISLs <sup>1</sup>	Carcinogenic <sup>2</sup>	Noncarcinogenic <sup>2</sup>	Sample Date	1/30/2024	4/9/2024	7/9/2024					Interior Rooms
	cis-1,2-DCE	NS NS	17.5	NS	526	cis-1,2-DCE	0.091 U	0.29 U	0.14 U		1	No.		PCE SG Impacts (1995)
	TCE	2.99	0.876	299	26.3	TCE	0.12 U	0.22 J	0.14 UJ			\		
	1000		AR La	Location	SS008-B5067-I	AQ01				(6)		1		Existing Soil Gas Well
Notes:				Sample Date	1/30/2024 4/9/2024	7/9/2024				SS008-SG0	17	`\		Locations
1101001				cis-1,2-DCE	0.091 U 0.32 U	0.13 U		Used OilC		33008-330	"	N. Committee		Sub-Slab Vapor Pin -
Figure dis	plays only the	e analytes that were	e above project actior	TCE	0.12 U <b>0.12 J</b>	0.13 UJ		VP04		SS008-SG08				No Exceedance
levels.								( )	SSO	08-SG09	6	- N		0.4.01.4.4
				16 har 18 3 12	Building 5067		VP03	VP0	8	DCE CC		-		Sub-Slab Vapor Pin -
Only com	pounds that e	exceeded sub-slab	project action levels	at	CC 197	1	•		4	PCE SG	200	100		Exceedance
the buildi	ng are shown.					VP02	VP07	' i 🍗 🗀	100	(1995)	1000	1	1	<ul> <li>IAQ Location</li> </ul>
				1		• *****			VP10	((2222)	73300			<ul> <li>Building 5067 Features</li> </ul>
IAQ samp	les were not o	collected during Q	I, as IAQ were only				\ ,	Pi P11 Hazardous Wo	aint Booth aste Storage	Location		B5067- AQ03	_ / /	
collected	following a su	ıb-slab soil gas sar	mple exceedance.	0.00000			/ '	• \	• VP13	Sample Date		/9/2024 7/9/20		♣ Water Valve
				/	VP01	Lame .	<u> </u>	, ,	Flammable Cabinet	cis-1,2-DCE		0.33 U 0.39 0.33 U 0.39 U		_
	les were colle	ected over an appro	oximately 8-hour			VPO	6	1	0	TCE	0.12 0	0.33 U 0.39 U	03	<ul> <li>Storm Sewer Manhole</li> </ul>
duration.					VP05			VP1	5 VP18			'/		
Forsomn	la whara a fial	d duplicate was as	ollected and analyzed		• ****			N.				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 1	
•		•	•	,		VP09		,	· /	100			100	<ul><li>Sanitary Manhole</li></ul>
the result	with the grea	ter concentration is	s snown.				VP14		\ \Q	VP22 Local	tion	SS008-B5067-IAC	205	- Trench Drain
Results a	re in microgra	ms per cubic mete	r.					-	VP21	Samp	ole Date 1/30/2	024 4/9/2024	7/9/2024	Utility Trench
riocutto a		mo por odbio moto						Tammable Cabinet Up	217		2-DCE 0.091	$\overline{}$	0.067 U	Water Main
Bold indi	cates the ana	alyte was detected	t				0	<b>↑</b> • "		TCE	0.12	U 0.074 J	0.027 J	
				1050A3033			/0.	VP20	1.			M		Storm Sewer Main
		analyte exceeded	I USEPA Commercia	1000000		VP12	Floor Drain	OFloor Drain	VP23			0		— Sanitary Sewer Main
VISLs - C	arcinogenic			The same of			VP19		• 7 –	cation	SS008-B5067-IAQ	04		
Pod Toyt	indicates the	analyta avasaday	d USEPA Commercia			VP16	mmable &			mple Date 1/30/202		7/9/2024		
		_	I OSEPA Commercia	El Mar		Cor	rosive		cis	-1,2-DCE 0.091 U	0.33 U	0.031 U		$\wedge$
VISLS - N	oncarcinoge	nic		100		Cal		/	TC	E 0.12 U	0.33 U	0.045		/ \
Italic ind	icates analyt	e exceeded USEP	A RML – Carcinogeni	c				/		T				$\sim$
7.00.0 1710	u.y.	cassource Coli	2	A CONTRACTOR OF THE PARTY OF TH	/				1			The same of the sa		N
<u>Underlin</u>	e indicates aı	nalyte exceeded L	JSEPA RML -	100000		1	000					_miles		

Your Success is Our Mission!

**UNCLASSIFIED** 

Noncarcinogenic



#### SS008 - Bldg. 5068 Sub-Slab VP Results, Q1 - Q4



Project Action Levels						
	EGLE Nonresidential	<b>USEPA Commercial</b>				
Analyte	SSVIAC <sup>1</sup>	VISL <sup>2</sup>				
1,1,2-TCA	20	29.2				
TCE	130	292				

#### Notes:

Figure displays only the analytes that were above project action levels.

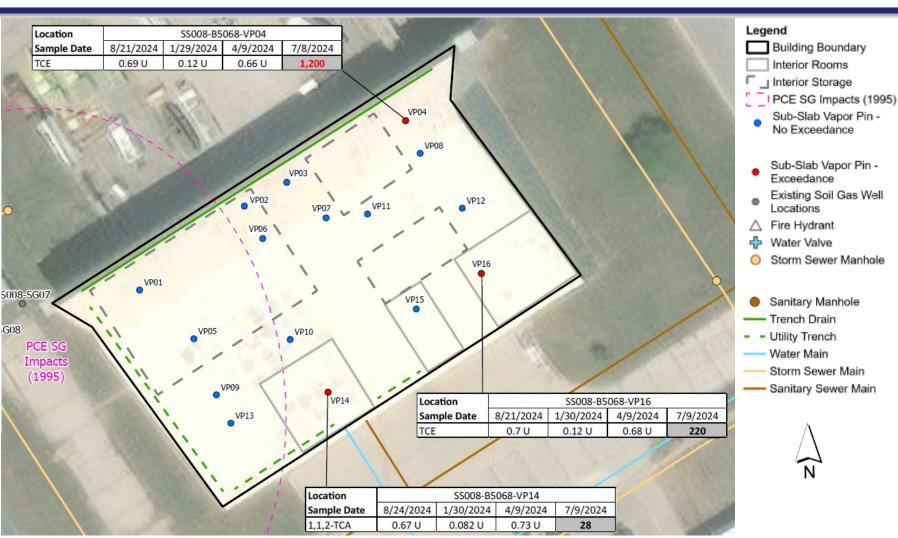
Results are in micrograms per cubic meter.

For sample where a field duplicate was collected and analyzed, the result with the greater concentration is shown.

Bold indicates the analyte was detected

Shading indicates the analyte exceeded EGLE Nonresidential SSVIAC

Red Text indicates the analyte exceeded USEPA Commercial VISLs





## Introduction to TAPP

Technical Assistance for Public Participation

#### Purpose of Presentation

- The purpose of this presentation is to provide Restoration Advisory Board (RAB)
  members an overview of the Defense Environmental Restoration Program's
  (DERP) TAPP program.
- This presentation consolidates the information from existing authorities into a single, simplified reference document.
- TAPP is codified in the following regulations and policies:
  - 10 United States Code Section 2705
  - 32 Code of Federal Regulations part 203
  - DoD Manual 4715.20 "Defense Environmental Restoration Program"



#### Public participation in environmental cleanups

Since 1994, RABs<sup>1</sup> have been established at more than 300 military installations to facilitate open communication and understanding between local community members and installations being cleaned up under DERP.

RABs provide a collaborative forum for community members, government agencies, tribes, and installation decision makers to discuss and identify the most efficient and productive means to restore the environment.

People from the community, who are affected by environmental cleanup activities at a specific installation, may join a RAB to exchange information with representatives of the regulatory agencies, the installation, and the community.

<sup>&</sup>lt;sup>1</sup>Including Technical Review Committees (TRCs), where applicable.



#### Public participation in environmental cleanups

- Cleanups can be very complex and technical. RAB-members may feel they need help with understanding cleanup-related activities or terminology used by scientific and technical experts.
- DoD provides RABs with a way to obtain technical assistance during cleanups.
- The program is called Technical Assistance for Public Participation, or TAPP.





#### What is the TAPP Program?

- TAPP is a DoD program that provides technical assistance to RAB members and the public in order to better understand the complexities of environmental cleanups.
- The TAPP Program helps encourage public participation in the DoD's environmental restoration programs, by helping RAB members better understand the technical aspects of the cleanup.
- Eligible TAPP projects include technical assistance with interpreting technical documents into plain language, assessing technologies, explaining risk assessments and/or health assessments, or training, as requested by the RAB.
- Community members, who are members of a RAB, are eligible to apply for technical assistance under TAPP.



Facilitating public participation and understanding of environmental cleanup

#### Why was the TAPP Program started?



To enhance the public's ability to provide input into the cleanup process by providing technical assistance to the RAB's community members.



To facilitate a broader awareness of the cleanup process and understanding of the scientific and engineering issues underlying environmental restoration.



To strengthen the RAB's ability to be a stronger partner that is more effective in reviewing, commenting, and participating in the cleanup process, with the end goal of achieving community acceptance of the proposed remedy.





#### Why would our RAB apply for TAPP?

#### Discuss the following questions:

- Would technical assistance help your RAB gain a better understanding of the technical issues associated with the cleanup?
- Would it help your RAB to have a technical expert read through technical documents and report back to the RAB on the content of the document in nontechnical language?
- Would it help your RAB to have an expert read through the Risk Assessment and report back to the RAB with a non-technical explanation of the health risks to the community?



#### Why would our RAB apply for TAPP? (cont.)

- Would it help your RAB to receive training on concepts such as how contaminants move through groundwater, how risk assessments are performed, how potential remedies are evaluated, how plume maps are created, etc.?
- Would a technical expert help your RAB provide better input to the installation so the installation understands which proposed remedies the community favors?
- Would a technical expert help the RAB understand better the technical aspects of the project in a way that would lead to community acceptance?

If you answered "yes" to any of these questions, your RAB may benefit from TAPP.



Facilitating public participation and understanding of environmental cleanup

#### What activities are eligible for TAPP funding?



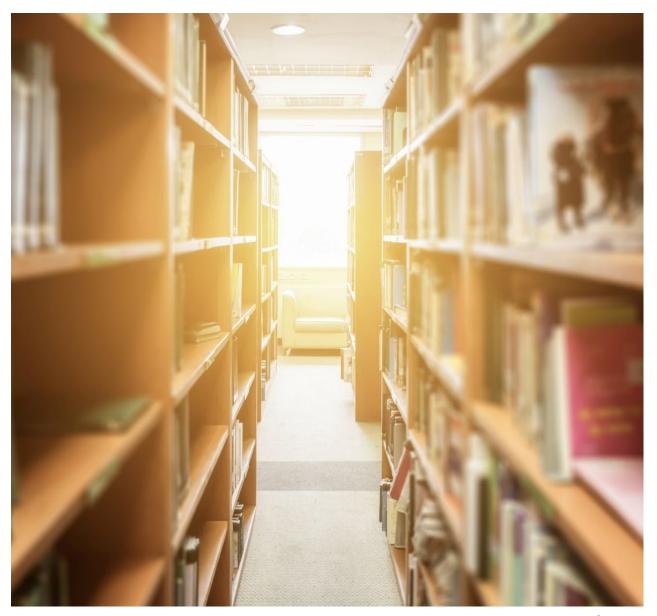
Interpretation of technical jargon in the environmental cleanup/remediation reports.



Simplified information or training by a technical expert to explain cleanup/remediation technologies and related topics.



Helping RAB members understand the overall environmental remediation process and how it relates to protecting human health.





Facilitating public participation and understanding of environmental cleanup

#### What activities are NOT eligible for TAPP funding?



Litigation or paying for attorney fees



Generation of new data and more sampling



Political activities or lobbying



Reopening final DoD decisions



Public outreach activities



Epidemiology or health studies



Facilitating public participation and understanding of environmental cleanup

#### Is there a dollar limit for TAPP funding?

- Up to \$25,000 may be awarded for TAPP assistance per fiscal year at a particular installation/location.
- Up to \$100,000 may be awarded for TAPP assistance over the life of the restoration program at a particular installation/location.
- Waivers to exceed these limits, or appeal the DoD's decision on a TAPP request, are available, if necessary.

More information on TAPP funding limits, waivers, and appeals can be found starting on page 84 of DoD Manual 4715.20, accessible through the link below:



https://www.esd.whs.mil/Portals/54/Documents/DD/issuances/dodm/471520m.pdf

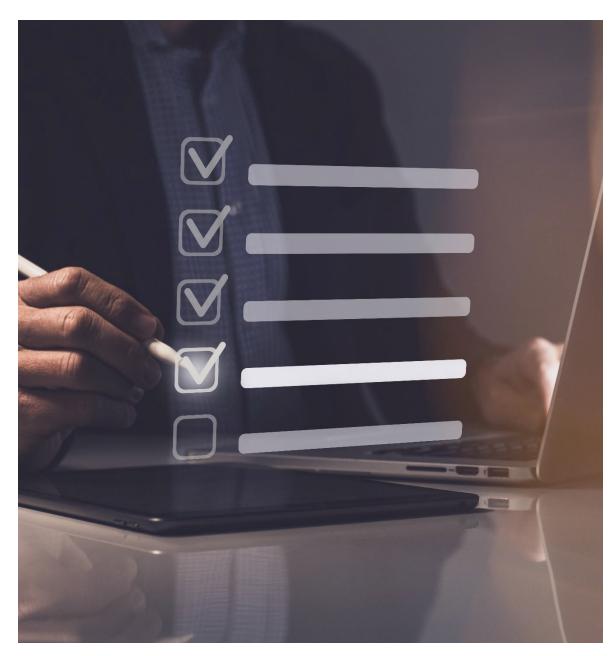


#### Have alternate sources been considered before applying?

The RAB must discuss using alternate sources prior to applying for TAPP. A few common resources include:

- 1. Installation cleanup support contractor
- 2. Federal, state, and local regulatory staff
- 3. Local university resource staff
- 4. RAB members
- 5. National/regional resources

It is up to the RAB to examine other sources of assistance. If the RAB determines other sources are not viable, the RAB can apply for TAPP.



#### Other programs available for consideration

If your RAB does not have access to technical assistance through TAPP, the Environmental Protection Agency (EPA) has similar programs that may be available:

- Technical Assistance Grant (TAG)
- Technical Assistance Services for Communities (TASC)
- Technical Assistance Plan (TAP)

Follow the links below to review information on each program.



TAG: <a href="https://www.epa.gov/superfund/technical-assistance-grant-tag-program">https://www.epa.gov/superfund/technical-assistance-grant-tag-program</a>



**TASC:** <a href="https://www.epa.gov/superfund/technical-assistance-services-communities-tasc-program">https://www.epa.gov/superfund/technical-assistance-services-communities-tasc-program</a>



**TAP:** <a href="https://www.epa.gov/superfund/technical-assistance-plan-tap">https://www.epa.gov/superfund/technical-assistance-plan-tap</a>



#### What are the reporting requirements?

The technical assistant carries the majority of the reporting requirements.

- Periodic progress reports, financial status reports and materials prepared for the contract. Specified in the contract.
- At the conclusion of the contract, a final report including documentation of TAPP project activities over the entire period of support and a description of the achievements with respect to the stated TAPP project purposes and objectives.

At the completion of the contract, the RAB's community point of contact must submit a report with the following information:

- A description of the TAPP project.
- A summary of services and products received.
- A statement regarding the overall satisfaction of the RAB with the quality of service and/or products received.



#### When should RABs apply for technical assistance?

- The RAB should consider when technical assistance will be needed and time its application accordingly. For example, is there a DoD action related to the investigation or cleanup for which the RAB could use assistance through TAPP?
- The Community Co-chair should work closely with the Installation Co-chair to determine the timing of these actions and the project start date, and apply for TAPP as soon as possible to ensure technical assistance will be available when needed.
- It is important to note that it may take the installation time to process the TAPP application and award the contract for technical assistance.



#### How does our RAB start the TAPP application process?



Document your majority decision to request TAPP funding at your next RAB/TRC meeting. Record your vote in the meeting minutes and attach the meeting minutes to the application.



Notify the Installation Co-chair with your intent to pursue TAPP funds.



Fill out the official TAPP Application. Click <u>here</u> to download the application.



Reference the <u>Practical Guide</u> for detailed instructions on completing the application or click <u>here</u> for a presentation version of application instructions.

	ARTICIPATION (TAPP) APPLICATION	OMB No. 0704-0392 OMB approval expires Nov 30, 2025
The public reporting backs for this collection of information, 0704-0321 is estimated glothering and marking the dost readed, and completing and markening the bottleed information, including suggest one for reducing the burden, bottle operational of Delk Responders's shall be severe that bother lateralism gray other provision of lee, no per currently varied OMB control number.  RETURN COMPLETED FORM	ion of information. Send comments regarding this burden estimate or any ense, Washington Headquarters Services, at who movalex esd mbx.dd-do:	cther aspect of this collection of Finformation-collections@mail.mil.
SECTION I - TAPP REQUEST SOURCE IDENTIFICATION DA	TA	
1. INSTALLATION		
Installation Name		
<ol><li>SOURCE OF TAPP REQUEST (Name of Restoration Advisor</li></ol>	ry Board (RAB) or Technical Review Committee (TRC)	
Installation RAB		
3. CERTIFICATION OF MAJORITY REQUEST		4. DATE OF REQUEST
See attached meeting minutes/vote		(YYYYMMDD) 20230731
5. RAB POINT OF CONTACT		
a. NAME (Last, First, Middle Initial)	b. ADDRESS (Street, Apt. or Suite Number	r, City, State, ZIP Code)
Smith, John, A.	1234 Anywhere Street	
c. TELEPHONE NUMBER (Include Area Code) 555-555-5555	Bumbville, MA 45454	
SECTION II - TAPP PROJECT DESCRIPTION		
6. PROJECT TITLE		
Independent Interpretation of Technical Documents by	Local Experts	
7. PROJECT TYPE (Data Interpretation, Training, etc.)		
Data & Technical Document Interpretation		
Data & Technical Document Interpretation		
<ol> <li>PROJECT PURPOSE AND DESCRIPTION (State anticipate process at the installation. Include descriptions, locations, ar</li> </ol>		/participation in restoration
Purpose: To educate RAB members about the Installati	on Name-related PFAS contamination, in prepar	ation for the DI mode alon
review.		ation for the K1 work plan
	nal Site Inspection Report for Perfluorinated Con ssment Site Visit Report (Company, 2006). Prov on and summary of the conclusions including, bu te(s), characteristics, size/fate/transport/migration	NOES, and Private Well apounds (Company, 2018) ide RAB members a repor it not limited to, extracting h/profile/etc. Provide the
review.  Description: Review the Final Expanded Site Inspection Sampling Results (2017-Present), Final Phase 1 Regior and Final Perfluorinated Compounds Preliminary Asse and presentation with Q&A of independent interpretation are explaining what has been found out about the plum	nal Site Inspection Report for Perfluorinated Con- ssment Site Visit Report (Company, 2006). Provo on and summary of the conclusions including, bi- te(s), characteristics, size/fate/transport/migration and a final report and presentation by September 2 in 2GFR Section 203.10 and 203.11 of TAPP rule. Note rees are inadequate) 203.10(b)(1) "Interpret Technical Documents [ orts for community members of RABs and TRC- im site studies, engineering documents, such as s- en donating their time and talents toward education rk is overwhelming for the spare time that can be a chieve the goal of RAB education and readine.	NOES, and Private Well ppounds (Company, 2018) ide RAB members a report not limited to, extracting hyporolie/etc. Provide the 10, 2024.  other sources that were  ] Technical assistance mas. These reports include, it is inspections"  ig the community about donated; therefore, their ss so the RAB members

#### Example of a completed TAPP Application



Facilitating public participation and understanding of environmental cleanup

#### Key steps in the TAPP application process

#### Step 1.

RAB Member(s) and Community Co-chair



#### **Determine the need**

• Determine if TAPP assistance is the right solution for your community after considering alternate sources

#### Step 2.

RAB Members and Community Co-chair



#### Prepare the required documentation

- •Obtain majority vote at RAB meeting and document results through the meeting minutes or email
- Notify the Installation Co-chair of your intent to pursue TAPP

#### Step 3.

RAB Member(s), Community Cochair, and Installation Co-chair



#### Fill out DD Form 2749

- •Use the Step-by-Step written instructions or the more visual PowerPoint presentation for assistance in filling out the form
- Complete Sections I and II, send to the Installation Co-chair (with the majority vote attached) to coordinate approval from the Installation Commander
- After the form is approved, the Installation Co-chair will coordinate Section IV completion with the Community Co-chair and RAB members, and send to the Installation Commander for submittal to the Contracting Office

#### Step 4

**Contracting officer** 



#### **Approval and receiving support**

•Installation Contracting Office approves and begins the process to obtain services

#### Where can more information on TAPP be found?



TAPP information located on our website at:

https://www.acq.osd.mil/eie/eer/ecc/p fas/po/cip-rab-tapp.html

There you can find a link to download the TAPP application, instructions on how to fill out the form in both a stepby-step format or a more visual presentation.



#### Changes are coming to TAPP

- DERP has evolved and so have the technical assistance needs for RABs.
- The FY2024 NDAA includes a provision that modifies the TAPP process.
- Updating takes time and could take several months, and perhaps a year or more, to implement.
  - Regulation must be updated to codify the changes;
  - Revision beginning in Spring 2024;
  - Must go through a public comment period.
- RABs will be notified of the public comment period.
- TAPP will continue as-is until the new regulation is finalized.



Facilitating public participation and understanding of environmental cleanup

#### Get started today



http:www.acq.osd.mil/eie/eer/ecc/pfas/po/cip-rab-tapp.html