

WELCOME & MEETING OVERVIEW



Agenda

Welcome & Introductions	6pm – 6:15pm	
RI Update	6:15nm 6:50nm	
RI Q&A	6:15pm – 6:50pm	
Break	6:50pm – 7pm	
RI Split Sampling		
Drinking Water Discussion	7pm – 8pm	
Drinking Water Q&A		

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Introductions – Facilitator

Robin Roberts

Contractor through EPA HQ's Conflict Prevention and Resolution Center

Role: Facilitate Meeting

EPA Superfund Emergency Management Division (SEMD)

Victoria Schantz

Remedial Project Manager

Augusta Mery

Remedial Project Manager

Will Geiger

Section Chief, VA & WV Remedial Section

Role: Mange the investigation and cleanup of the Paden City Groundwater Superfund Site. Does not have authority over the municipal water system.

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Introductions –

EPA SEMD Technical Support

Martin Gehlhaus

Toxicologist/ Human Health Risk Assessor

Leanne Wiskemann

Hydrogeologist (not present)

Matt Taynor

Biological Technical Assistance Group Member (not present)

Role: Provide technical assistant for the Paden City Groundwater Superfund Site

EPA SEMD
Contractor –
EA Engineering,
Science,
Technology, Inc.

Michael Thornton

Project Manager

Jason McNew

Project Manager (not present)

Role: Contractor to EPA for work on the Paden City Groundwater Superfund Site. Perform Remedial Investigation and Feasibility Study.

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Introductions –

EPA Office of Public Affairs (OPA)

John Brakeall

Community Involvement Coordinator

Eric Pollard

Community Involvement Coordinator

Kia Long

Acting Chief, Community Involvement Branch

Mark Ferrell

Congressional and Intergovernmental Liaison

Role: Handle community relations for the Paden City Groundwater Superfund Site.

EPA Water Division (WD)

Bill Richardson

Chief, Drinking Water Section

Karrie Crumlish

Chief, Drinking Water & Source Water Protection Branch (not present)

Role: Delegates and oversees implementation of the Safe Drinking Water Act (SDWA)

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Introductions –

Agency for Toxic Substances and Disease Registry (ATSDR)

Emily Adler

Regional Representative

Role: Sister agency to EPA and is part of the Centers for Disease Control and Prevention. Assists EPA with health-related topics.

West Virginia
Department of
Environmental
Protection
(WVDEP)

Bill Huggins

Remedial Project Manager

Ross Brittain

Toxicologist

Drew Waggener

Hydrogeologist

Role: State counterpart to EPA SEMD for management of the Paden City Groundwater Superfund Site

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Introductions –

West Virginia
Department of
Health and
Human
Resources
(WVDHHR)

Bob Smith

District Engineer

Meredith Vance

Division Director (not present)

Jason Frame

Office Director (not present)

Role: Primacy Agency for Drinking Water in West Virginia. An entity with primacy is the agency with primary responsibility for implementing the SDWA.

The Town of Paden City

Steve Kastigar

Mayor

Josh Billiter

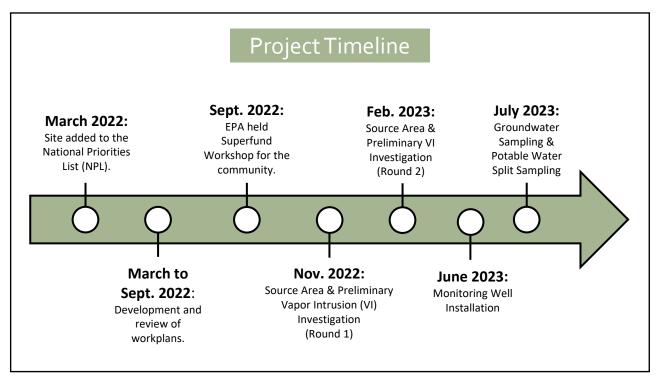
Public Works Director

Role: Local representatives. Manages the municipal water treatment plant.

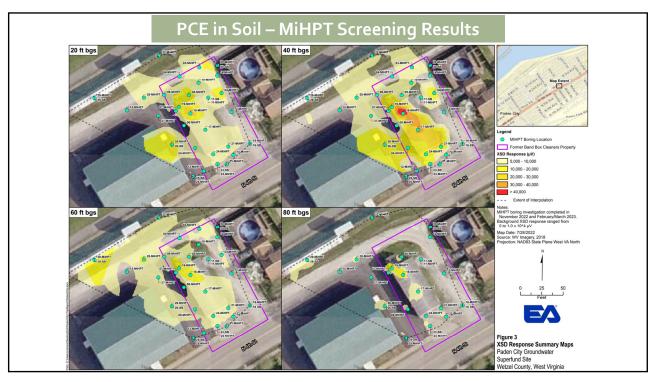
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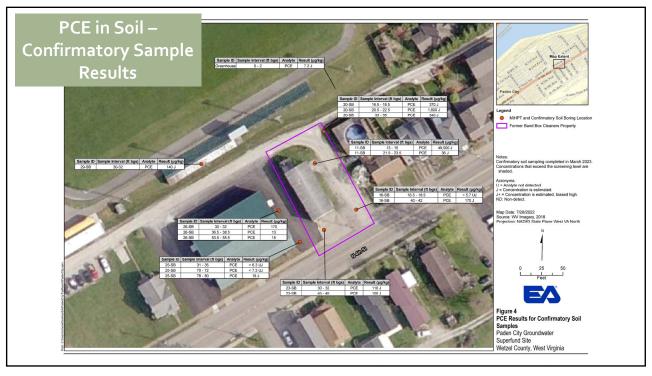
REMEDIAL INVESTIGATION UPDATE











Monitoring Well Installation & Groundwater Sampling

June/July 2023 -

Locations:

- Near the former Band Box Cleaners
- Various locations around Paden City

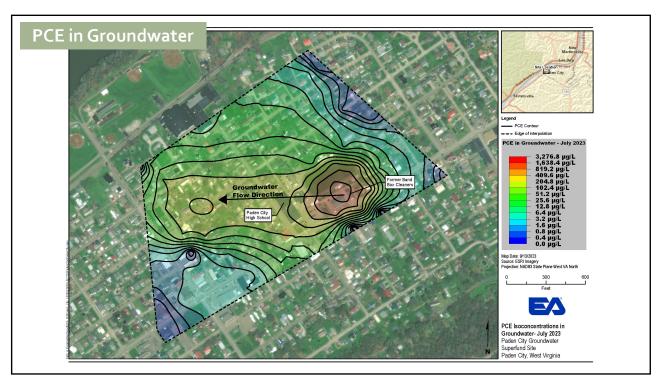
· Purpose:

- Define extent of groundwater contamination
- Use data to plan expanded VI investigation (January 2024)

Activities:

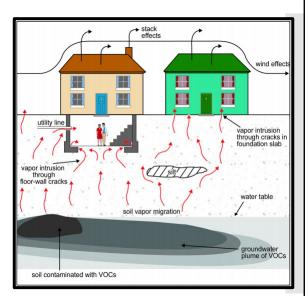
- Installed groundwater monitoring wells
- Groundwater sampling

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Vapor Intrusion (VI)

- A process where vapors from volatile organic compounds (VOCs), such as PCE, contamination in groundwater make their way into indoor air
- In some cases, the vapors may accumulate in buildings to levels that may pose an unacceptable risk of health effects due to long-term exposure



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Preliminary VI Investigation

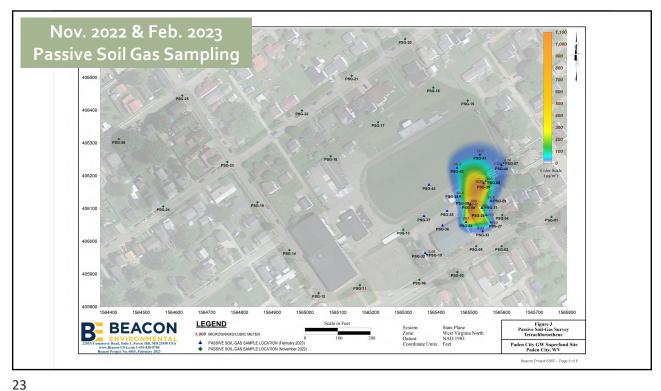
Nov. 2022, Feb. 2023, & March 2023

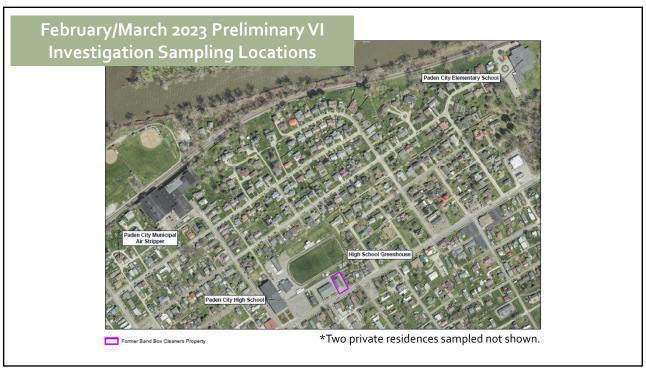
· Locations:

- Near the former Band Box Cleaners
- Various locations around town
- Paden City High School & greenhouse
- Paden City Elementary School
- Municipal air stripper exhaust
- Residences located near the former Band Box Cleaners
- Purpose: Assess potential VI resulting from contaminated soil and/or groundwater from releases at the former Bandbox Cleaners.

Activities:

- Collect passive soil gas samples
- Collect indoor air, sub-slab soil gas, and/or ambient air samples





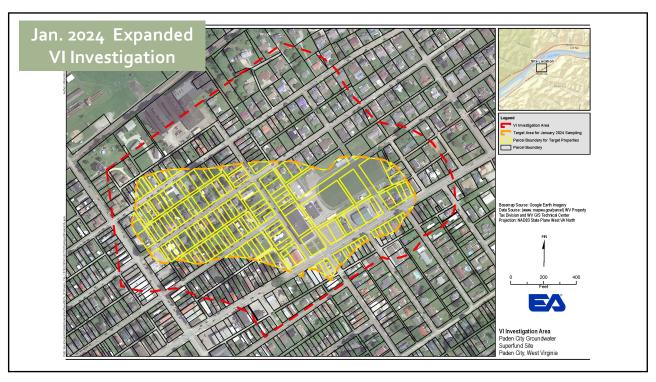
Preliminary VI Investigation – Results

Location/ Samples	Results
High School • 6 indoor air samples • 6 sub-slab soil gas samples • 1 ambient air sample Elementary School • 2 indoor air samples • 1 sub-slab soil gas sample • 1 ambient air sample	 PCE detected in indoor air and sub-slab but NOT exceeding VISL. Based on the analytical results, VOCs from the former Band Box Cleaners do not appear to indicate a VI concern. Results are consistent with prior results collected in November 2020 during the Site Inspection.
Two Residences near Bandbox2 indoor air samples each1 sub-slab soil each	 PCE detected in indoor air and sub-slab but NOT exceeding VISL. Based on the results, there does not appear to be a VI concern for the property at this time.

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Preliminary VI Investigation – Results

Location/ Samples	Results
 High School Greenhouse 1 indoor air sample 1 passive soil gas sample Nov. 2022 1 passive soil gas sample Feb. 2023 	 PCE detected in indoor air but NOT exceeding VISL. PCE was elevated in passive soil gas samples. For current conditions/use. If the greenhouse enclosure was intact, VI would likely be a concern based on the passive soil gas results.
 Air Stripper Exhaust 1 ambient air sample upwind of air stripper 1 ambient air sample downwind of air stripper 1 ambient air sample near the air stripper exhaust 	 The air stripper exhaust does not appear to be responsible for any ambient air screening level exceedances.



What is Asked of Residents?

- If your property is identified for sampling, provide access

 Access agreements are available at the sign in table if you'd like to provide access today!
- Work with us to coordinate schedule sampling
 2-day event, ~1 hour each day
- Answer questions about use of chemicals/cleaning supplies
- Put away chemicals that may interfere with study during sampling
- Help us to identify a location to set the sampler
- Leave sampler in location and refrain from using chemicals



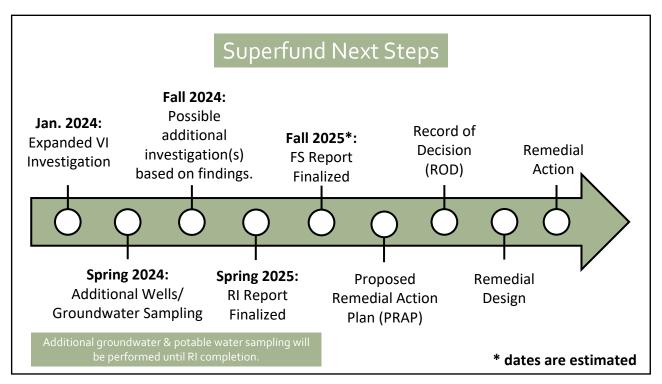
Indoor Air Sample Setup (summa canister on table)

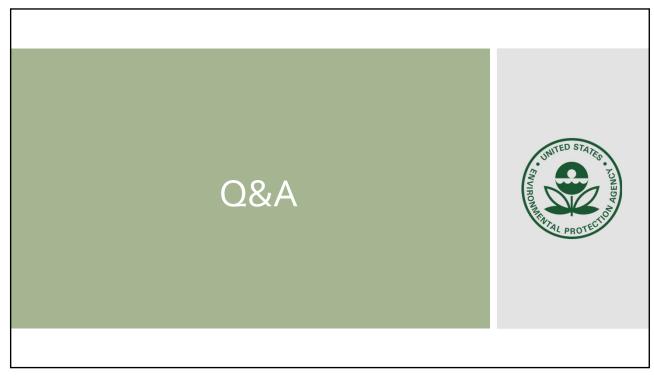


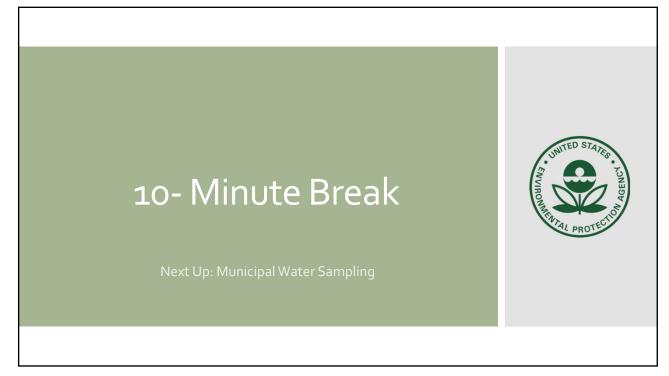
Sub-Slab Sample Port



Sub-slab Sample Setup (summa canister connected to sub-slab sample port)







MUNICIPAL WATER SAMPLING



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Potable Water Sampling (Split Sampling Event)

July 2023

- EPA conducted split sampling in conjunction with the Paden City Water Department on July 26-27, 2023.
- Approximately 20 locations were sampled along the municipal water treatment and distribution system.
- Sampling was conducted as part of the Remedial Investigation to ensure the air stripper was effectively addressing PCE contamination after concerns were raised by the community.
- Preliminary results (which have since been validated) reported detections of PCE in finished water samples ranging from 14 ug/L to 39 ug/L, exceeding the Maximum Contaminant Level (MCL) of 5 ug/L.
- Results for samples collected by the Town of Paden City are comparable to results for samples collected by EPA on the same dates and at the same locations.
- Upon receipt of preliminary analytical results on August 15, 2023, EPA SEMD immediately notified EPA WD, WVDHHR, WVDEP, and the Town of Paden City.
- WVDHHR, the primacy agency, issued a "Do Not Consume" order for the municipal water supply on August 16, 2023.

EPA SEMD & WD - Roles in the response

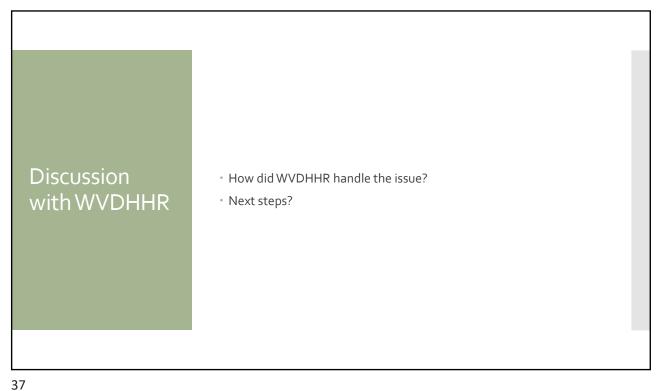
- An EPA SEMD On Scene Coordinator (OSC), an EPA Emergency Response Team (ERT) representative, and a WVDEP representative visited the air stripper on August 18, 2023 to inspect the air stripper.
- EPA SEMD performed sampling on 8/21, 8/23, 8/28, 8/30, 9/1, 9/5, 9/11, 9/19, 9/26, 10/3, 10/10, 10/18, 10/24, and 11/7
- EPA SEMD plans to collect one more round at the end of November
- EPA SEMD will collect samples in concurrence with our RI groundwater sampling schedule (quarterly)

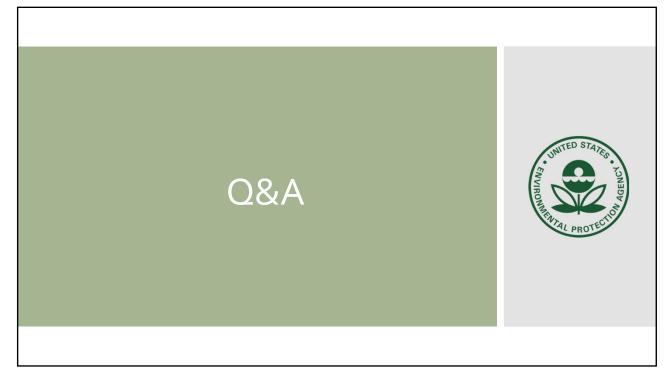
EPA has issued an FAQ document which can be found at: https://semspub.epa.gov/work/o3/236o138.pdf

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Discussion with Paden City Public Works

- How did that the contamination get into the treated water?
- What contingencies have been put in place to prevent this from happening again?
- What testing will be conducted going forward?
- Next steps?





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Chief, Drinking Water Section (215) 814-5675 Richardson.William@epa.gov

Bill Huggins

WVDEP Remedial Project Manager (304) 238-1220 William.Huggins@wv.gov

Bob Smith

WVDHHR District Engineer (304) 312-0322 Bob.A.Smith@wv.gov

Emily Adler

ATSDR, Site Lead (215) 880-7304 qgk3@cdc.gov

www.epa.gov/superfund/padencitygroundwater

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Contact Info

THANKYOU!

