



U.S. ARMY

Former Badger AAP RAB Meeting

August 4, 2022





RAB Agenda

- ✓ **Welcome and Opening Remarks**
- ✓ **Roll Call**
- ✓ **Review of the Minutes**
- ✓ **USGS Overview of Assessment of Trends Report**
- ✓ **USGS Groundwater Quality Web Site Demonstration**
- ✓ **Groundwater Sampling Update**
- ✓ **Project Management Updates**
- ✓ **Future Meetings**
- ✓ **Questions and Closing Comments**





Welcome/Opening Remarks

Former Badger Army Ammunition Plant Restoration Advisory Board

August 4, 2022





Roll Call of Members

Guest Introductions (optional)

Final Review of the Meeting Minutes from
07 Oct 2021
21 Apr 2022





USGS Trends Assessment

USGS Overview:

Assessment of Contaminant Trends in Plumes and Wells and Monitoring Network Optimization at the Badger Army Ammunition Plant, Sauk County, Wisconsin





USGS Groundwater Quality Web Site Demonstration

<https://md.water.usgs.gov/waterdata/BAAP/>

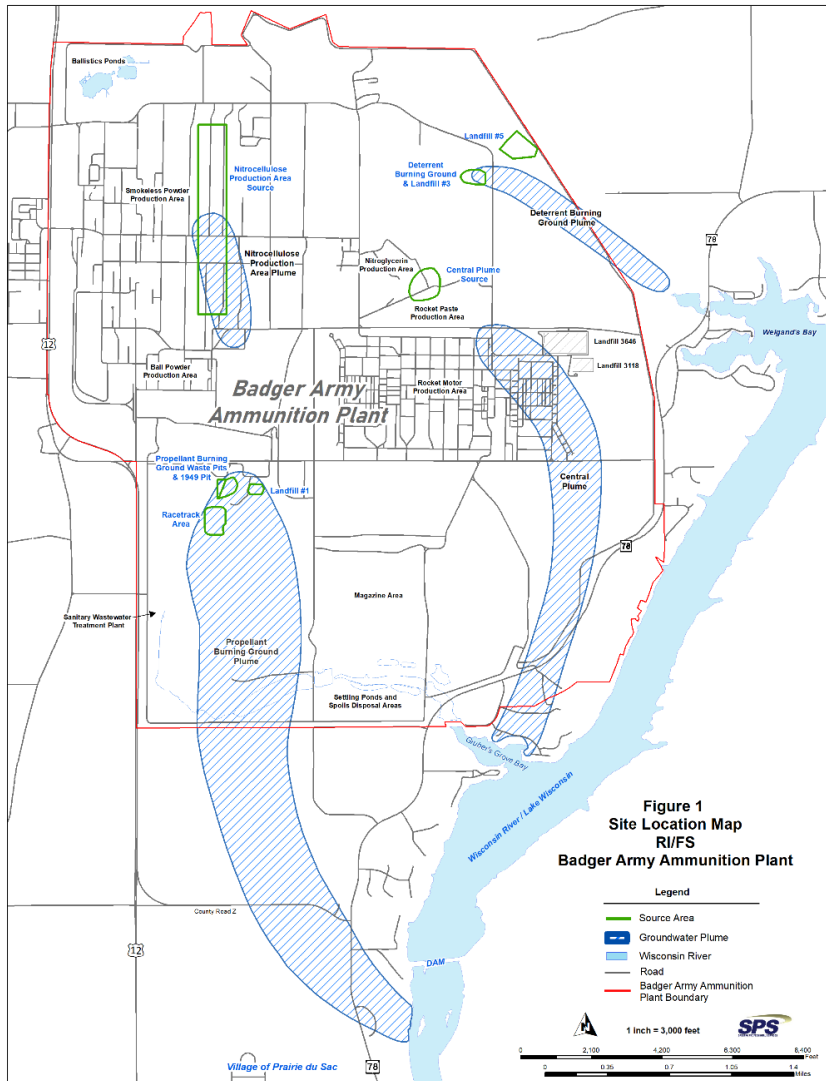




Groundwater Sampling Update



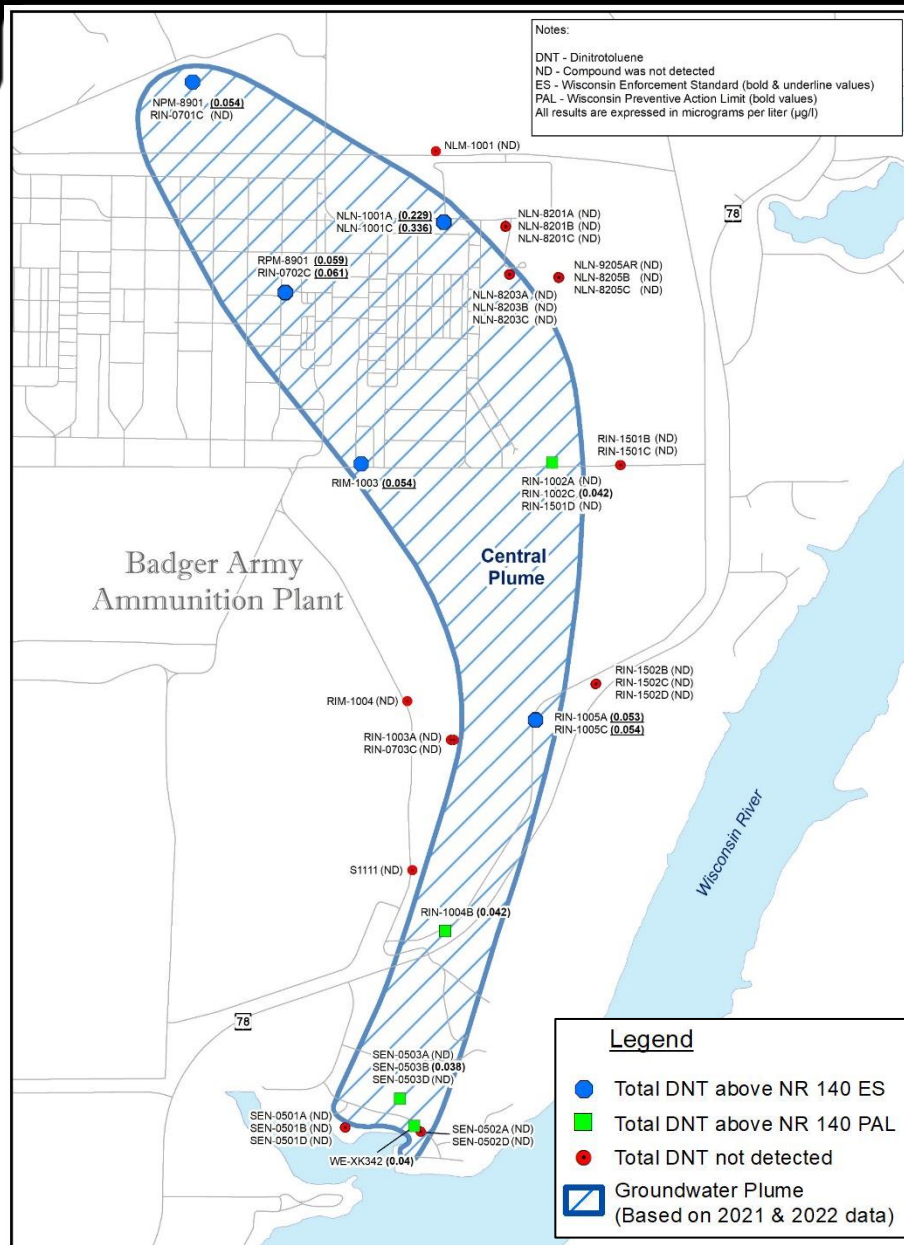
Groundwater Sampling Update



- **April 2022** - 113 wells were sampled
– Central (1), DBG (45), NC (4) & PBG (63)
- **June 2022** - 49 wells were sampled
– Central Plume (41) & DBG Plume (8)
- **August 2022** - 58 residential wells will be sampled - starting August 8th
- **September 2022** – Semiannual Sampling Event – Central, DBG, NC & PBG Plumes



Groundwater Sampling Update

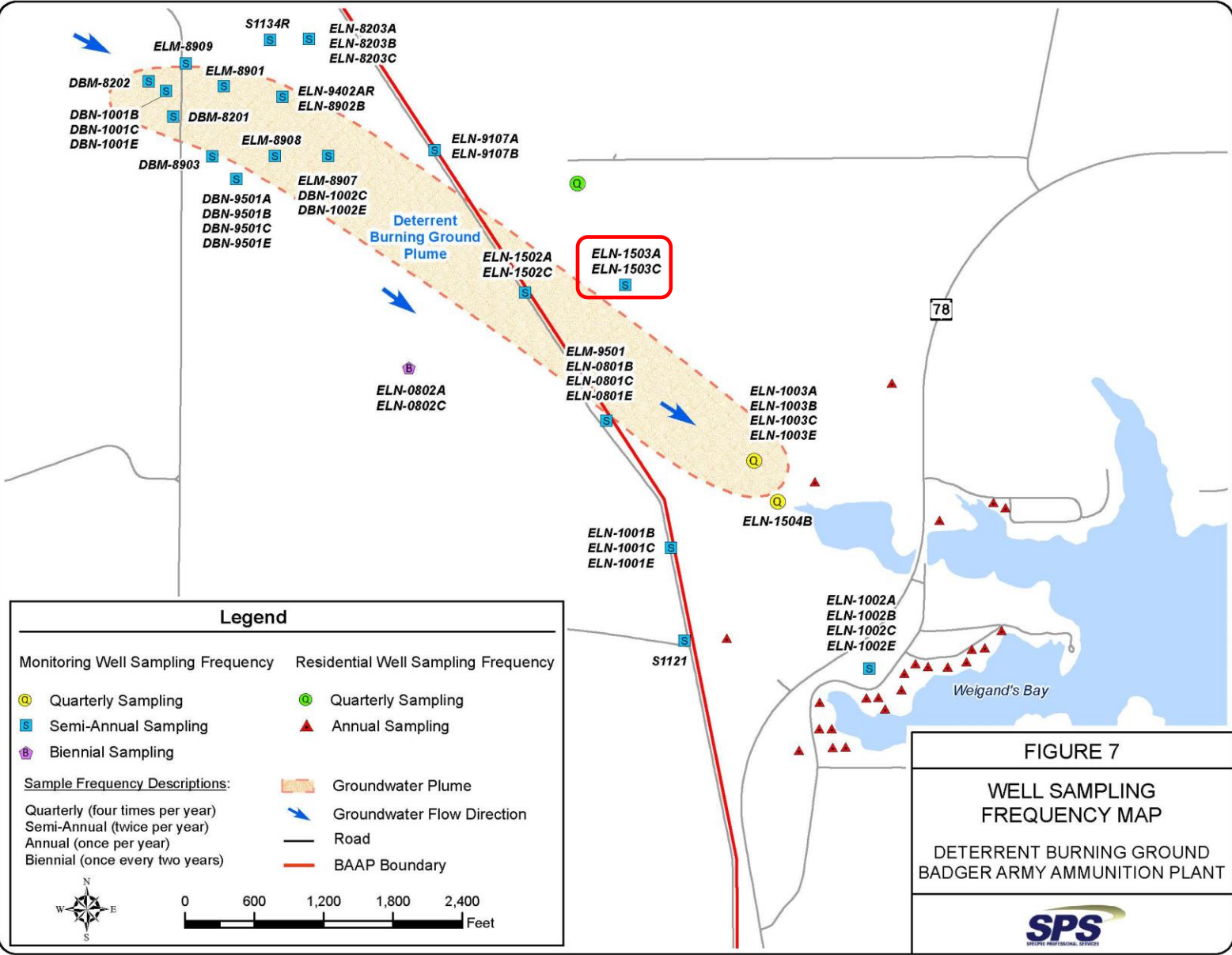


Dinitrotoluene (DNT) Groundwater Results Central Plume - 2022

- 41 Wells sampled in June 2022 (Annual sampling)
- 7 Wells added in northeast section
- DNT results similar to 2021
- DNT stable downgradient (south)



Groundwater Sampling Update



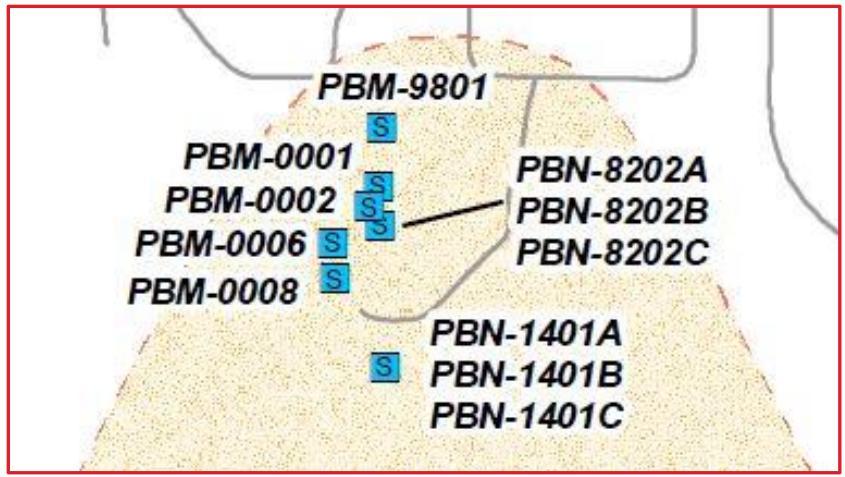
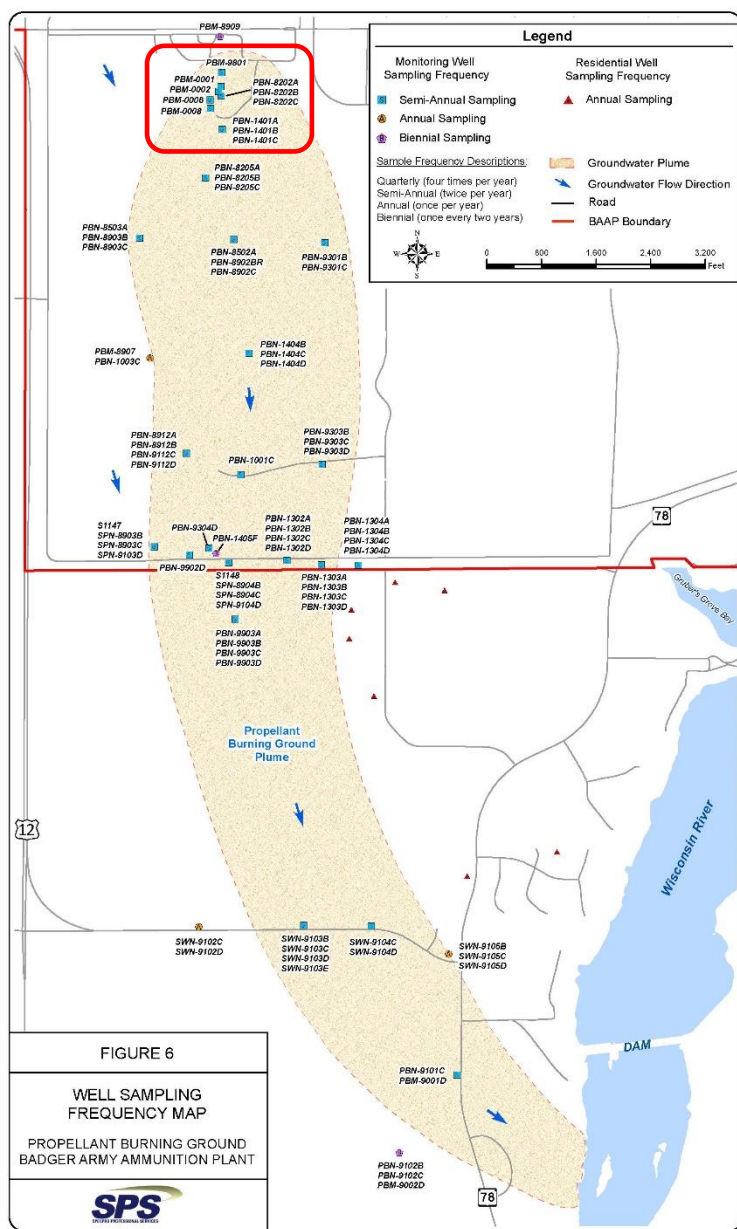
Legend	
Monitoring Well Sampling Frequency	Residential Well Sampling Frequency
<ul style="list-style-type: none"> Quarterly Sampling (Yellow Circle) Semi-Annual Sampling (Blue Square) Biennial Sampling (Purple Hexagon) 	<ul style="list-style-type: none"> Quarterly Sampling (Green Circle) Annual Sampling (Red Triangle)
Sample Frequency Descriptions:	
Quarterly (four times per year)	Groundwater Plume (Yellow Shaded Area)
Semi-Annual (twice per year)	Groundwater Flow Direction (Blue Arrow)
Annual (once per year)	Road (Grey Line)
Biennial (once every two years)	BAAP Boundary (Red Dashed Line)

0 600 1,200 1,800 2,400 Feet

FIGURE 7
WELL SAMPLING FREQUENCY MAP
 DETERRENT BURNING GROUND
 BADGER ARMY AMMUNITION PLANT



Groundwater Sampling Update





Project Management Updates

✓ Groundwater Monitoring Network Optimization

- Based on USGS Trends Analysis Report - new well locations proposed in Deterrent Burning Ground and Propellant Burning Ground Plumes
- Draft Plan under Army review
- Next step; WDNR review





Project Management Updates

✓ Gruber's Grove Bay Remedial Action Alternatives Evaluation

- Proposals Due 14 August
- Award ~ Mid-September
- Overall objective: refine Conceptual Site Model, address any data-gaps, evaluate remedial action alternatives





Project Management Updates

✓ Proposed Plan (PP) for the Site-Wide Groundwater

- Draft PP under Army review
- Next step; WDNR review
- Army will hold a public meeting strictly to discuss the Groundwater PP
- 30-day Public Comment Period will solicit written comments/feedback





Project Management Updates

- ✓ **Settling Pond Expanded Site Inspection**
 - Includes Final Creek & Settling Ponds 1, 2, & 3
- ✓ **Site-Wide Groundwater Monitoring Plan**





Project Management Updates

✓ Badger AAP PFAS

- New EPA PFAS Regional Screening Levels (RSLs)
 - DoD Guidance issued 6 July 2022
- Propellant Burning Ground (PBG) exceeds the screening level and a Remedial Investigation will be required
 - PFAS exceedances above the 2022 RSLs due to two exceedances in monitoring wells with the highest concentration at 14 ppt PFOS





Future meetings

✓ Future Meetings

- Agenda Items
- Dates
 - October 20, 2022
 - January 19, 2023
 - April 20, 2023





Questions??

Public Comments

Closing Remarks

