

Badger Army Ammunition Plant Groundwater Monitoring Status

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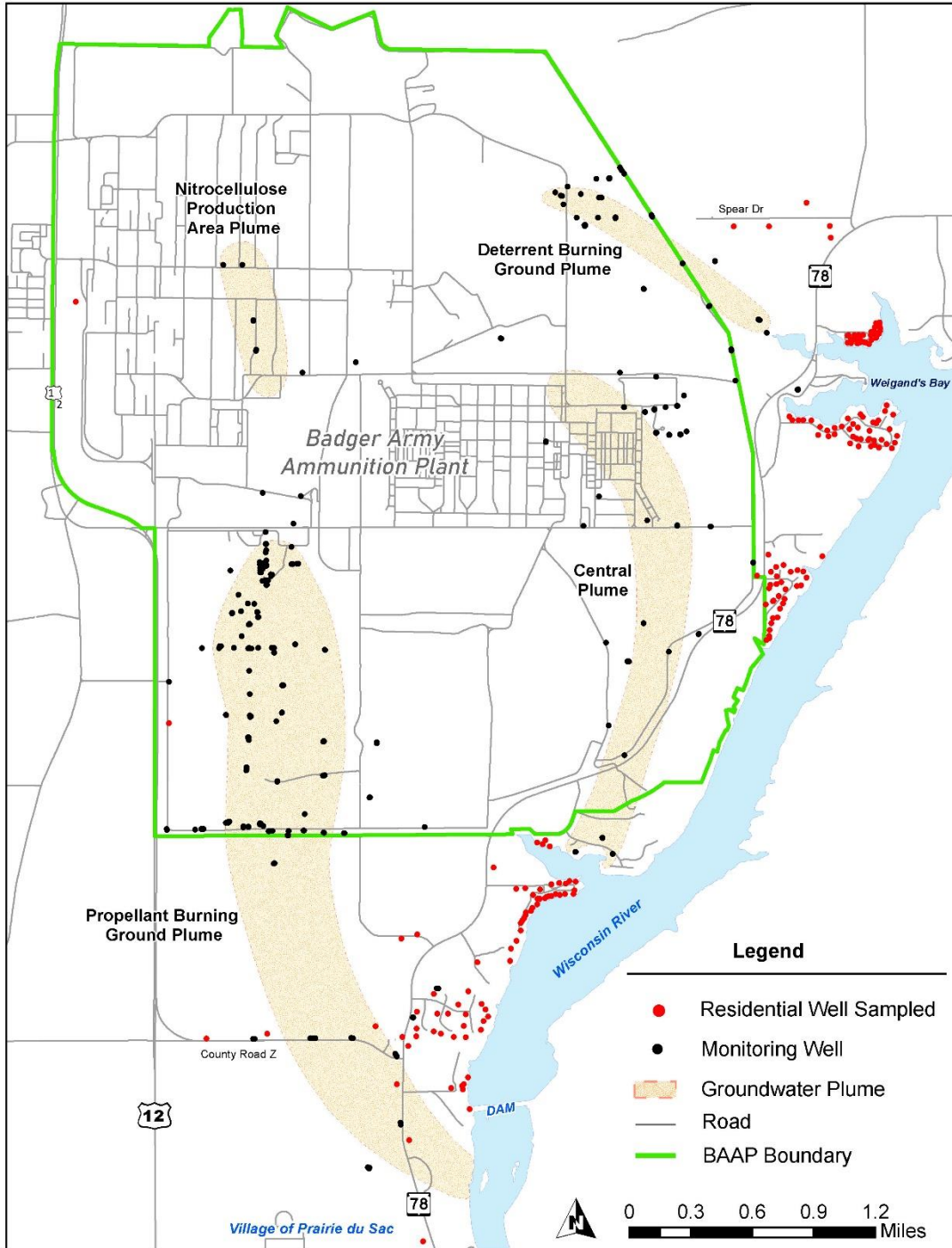
Groundwater Sampling

- **Update on residential well sampling**
- **Residential well replacement**
- **June 2019 Sampling Round**
- **September 2019 Sampling Round**

- **Four (4) plumes of groundwater contamination**
 - **Central Plume**
 - **Deterrent Burning Ground Plume**
 - **Propellant Burning Ground Plume**
 - **Nitrocellulose Production Area Plume**

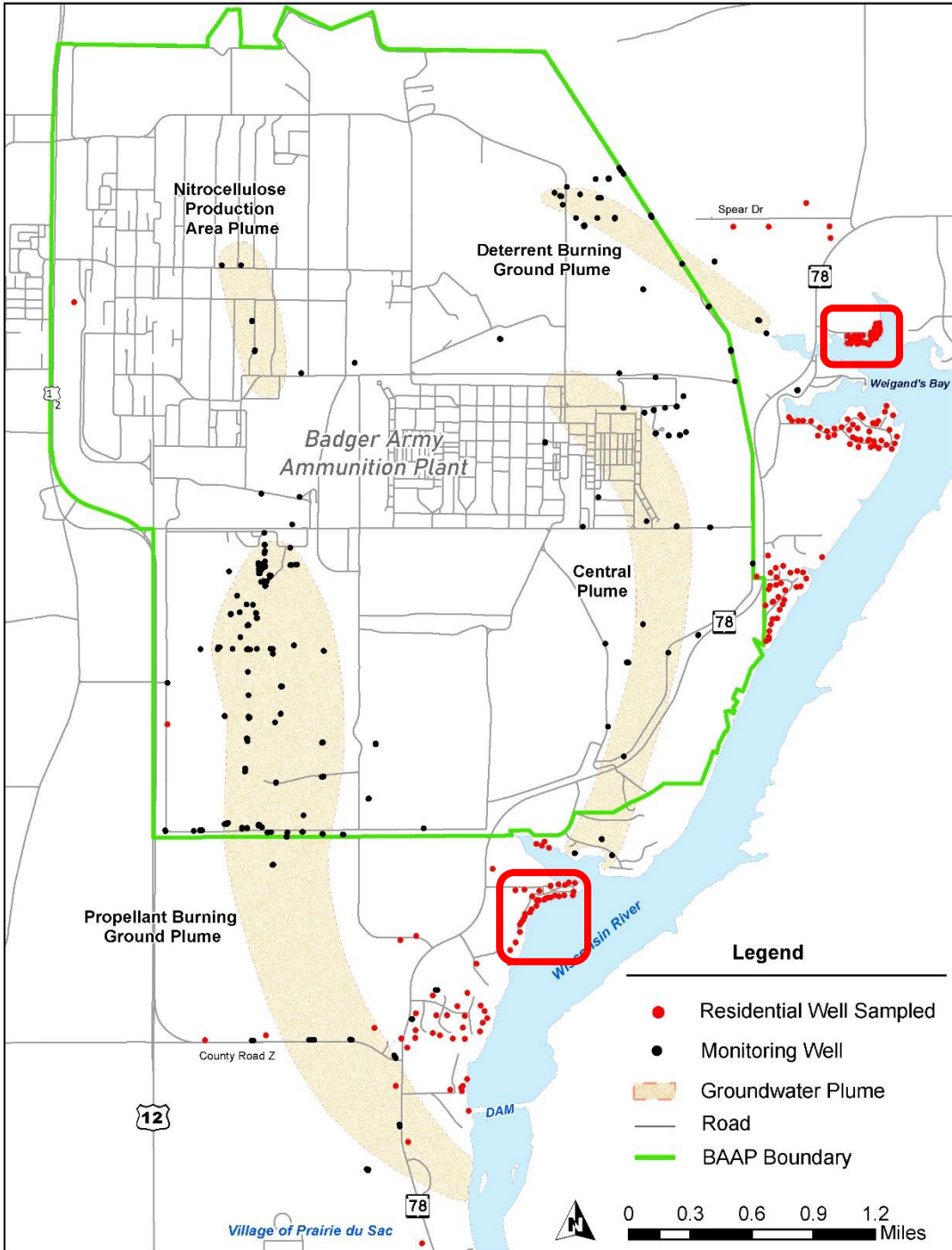
2018-2019 Residential Well Sampling

- Special sampling by Army
- 182 Residential Wells sampled October 2018 – August 2019
- Weigand's Bay
- Inspiration Drive
- Gruber's Grove Bay
- The Windings
- Dam Heights



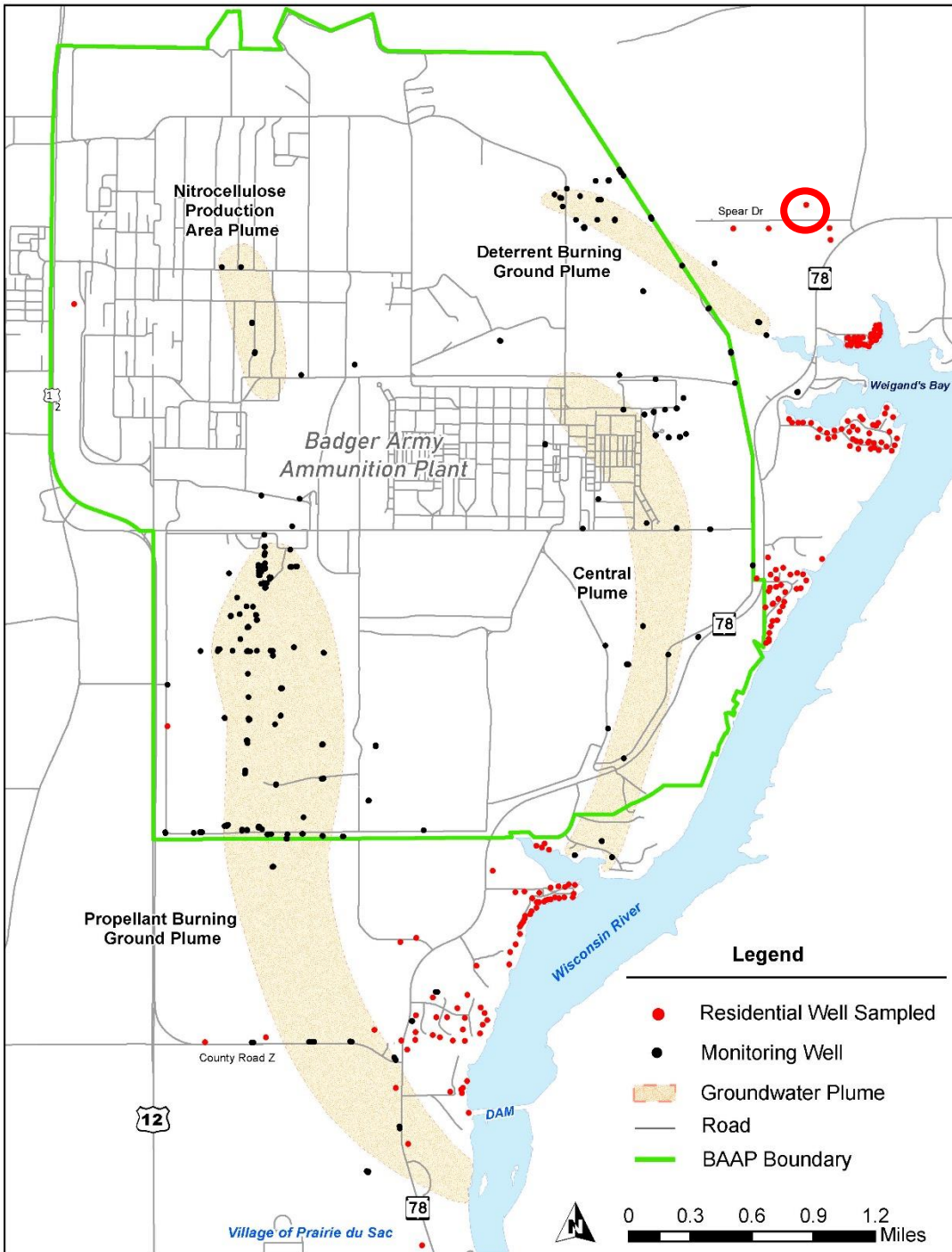
2018-2019 Residential Well Sampling

- Trichloroethene > NR 140 ES (three wells)
- Trichloroethene > NR 140 PAL (three wells)
 - Trichloroethene has been found in well jet pumps
 - Trichloroethene not found in DBG Plume or in monitoring wells
- Tetrahydrofuran > NR 140 ES (one well)
 - Tetrahydrofuran in PVC glue
 - Clean confirmation sample
- Chloroform above NR 140 PAL (five wells)



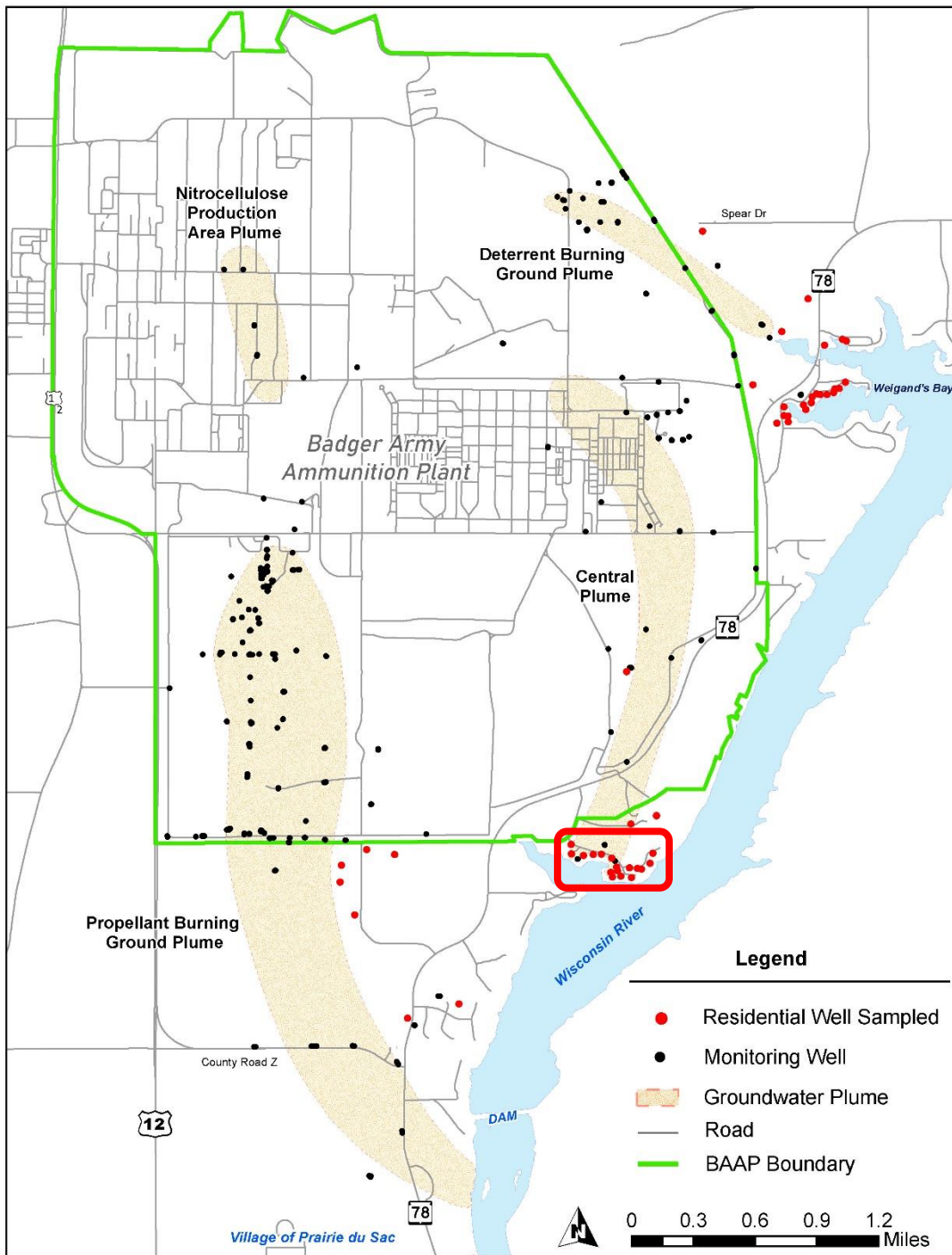
2018-2019 Residential Well Sampling

- 181 Wells - no DNT detected
- One well - 2,4-DNT > NR 140 ES
 - Clean confirmation samples



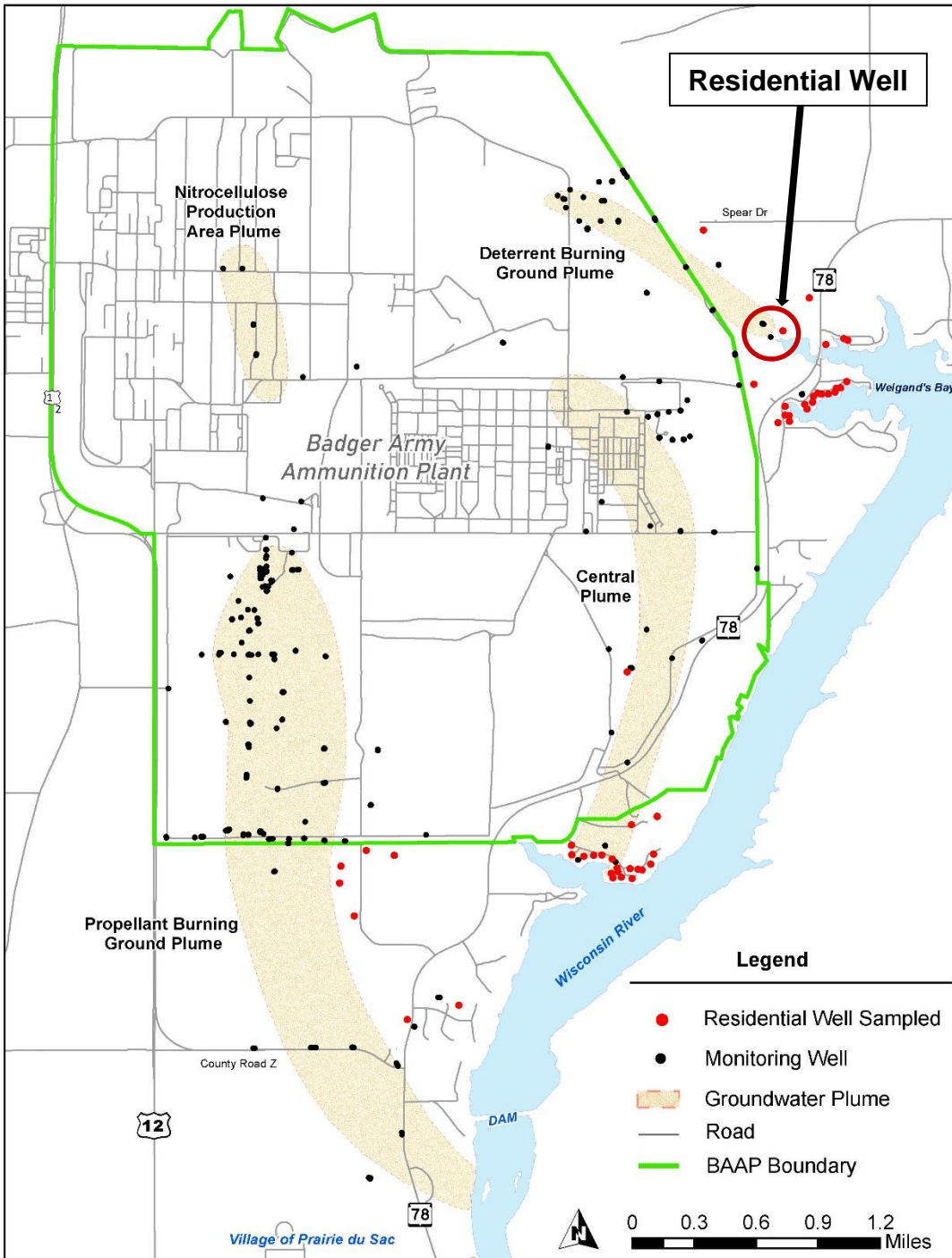
2019 Residential Well Sampling

- Annual sampling
- 53 Residential Wells sampled August 2019
- 2,6-DNT above NR 140 PAL (one well)
 - Water's Edge Subdivision



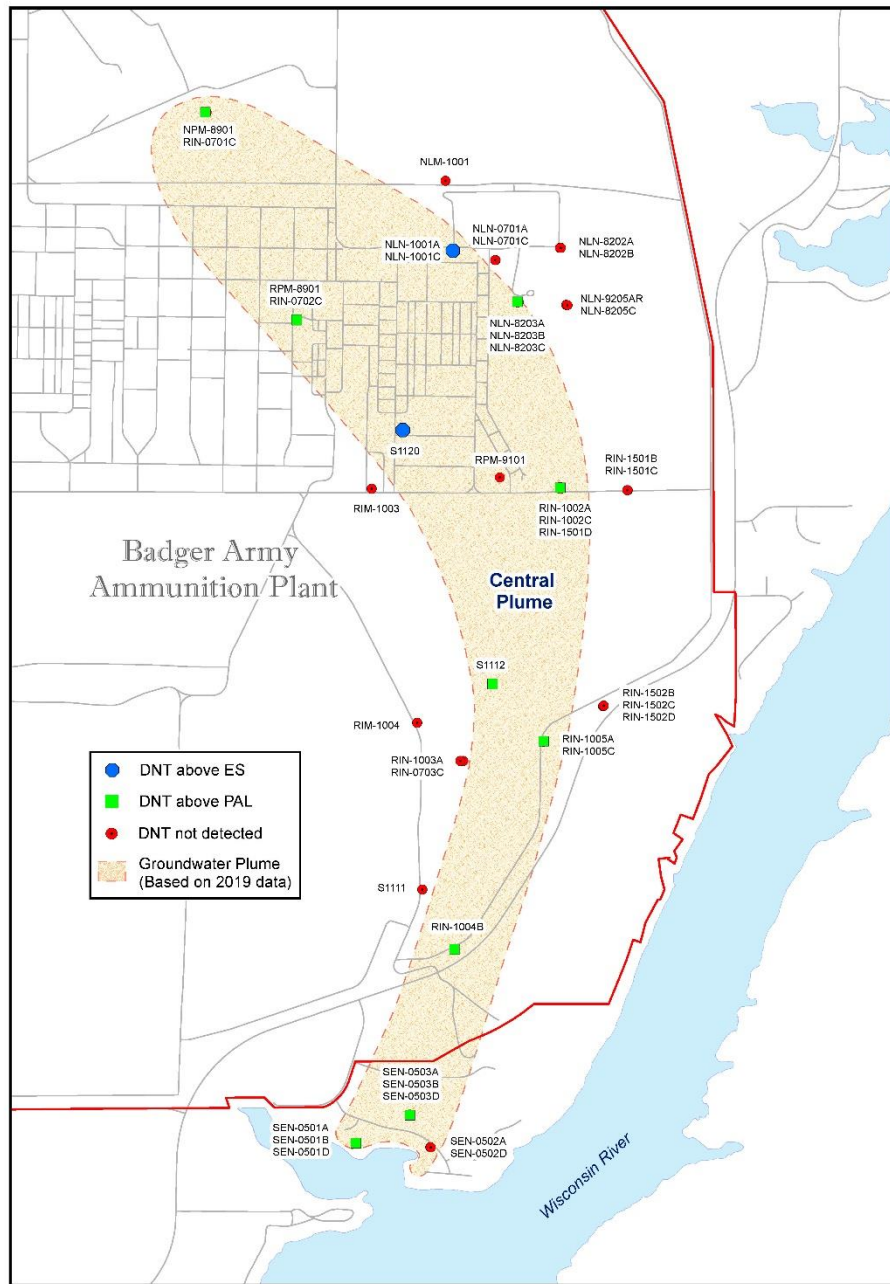
Residential Well Replacement Deterrent Burning Ground

- Old well was 112 feet deep (sand)
- Total DNT above NR 140 ES
- New well constructed below groundwater plume
- 344 feet deep (bedrock)
- New well sampled – CLEAN
- Old well was abandoned
- No DNT found in other residential wells near DBG Plume



June 2019 Sampling Central Plume

- Annual sampling
- 43 Monitoring Wells sampled
- DNT above NR 140 ES
 - Three monitoring wells
- DNT above NR 140 PAL
 - Ten monitoring wells



June 2019 Sampled Monitoring Wells
Badger Army Ammunition Plant

0 1,250 2,500 5,000 Feet

