

## 2024\* Water Quality Report

177,000 Constituents | 8% Rely on Private Wells for Drinking Water

**Biosolids/Waste Landspreading Sites**

Septage, municipal, and industrial wastes are applied to over 430 acres.

**PFAS Sources and Detects**

There are 41 presumed PFAS sources, and 20% of state-tested wells had at least one of the chemicals in 2023.

**Drinking Water Quality Violations**

No public water systems reported contaminant violations between 2022 and 2024.

**Wetland Loss**

More than 25,000 acres of wetlands are categorized as lost but potentially restorable.

**Groundwater Contamination Cleanup Sites**

Thirty-six groundwater sites are listed as contaminated.

RACINE

Racine

66

64

65

KENOSHA

Bristol

**Nitrate Exceedances**

From 2022 to 2024, 20% of public and 0% of private wells sampled exceeded the Preventive Action Limit for nitrate in drinking water.

**Outstanding/Exceptional Surface Waters**

No streams nor lakes are classified as quality surface water.

**Neonicotinoid Detects**

Between 2019 and 2023, no state-tested wells contained neonicotinoids.

**Impaired Surface Waters**

Over 37% of river and stream miles and 0% of total lake acres are listed as impaired.

Antioch

Zion

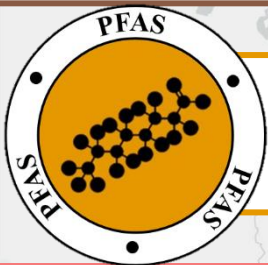




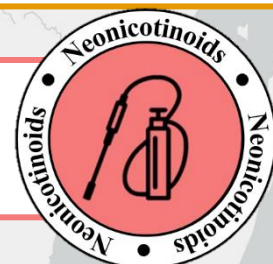
- **One public\* well (no private) sampled exceeded the Preventative Action Limit from 2022-2024.**<sup>1</sup>
- Elevated levels of nitrate are generally due to agricultural runoff and industrial discharges.
- Nitrate has been linked to blue baby syndrome, colon cancer, thyroid disease, and neural tube defects.



- **Current permit holders have applied approximately 200,000 gallons of waste to over 11 separate fields.**<sup>2</sup>
- The liquid and solid waste is generated from paper mills, septage operations, and food processing plants.
- Landspreading waste can transport contaminants by contaminating groundwater and food and feed crops in the area.



- **Two municipal wells (no private) tested by the state had detectable levels of PFAS in 2023.**<sup>3</sup>
- The 41 presumed sources include facilities that manufacture, manage, and/or discharge PFAS materials.<sup>4</sup>
- PFAS consumption can cause developmental effects in children, decreased fertility, and some cancers.



- **From 2019-2023, no private nor monitoring wells sampled contained neonicotinoids.**<sup>5</sup>
- Neonicotinoid insecticides are applied to agricultural crops, lawns and gardens, golf courses, and more.
- Negative impacts to non-target insect species cause food chain issues in fish, birds, and potentially other taxa.



- **No violations occurred in public\* water systems from 2022-2024.**<sup>6</sup>
- Common contaminants such as nitrate and heavy metals often enter drinking water from agricultural and natural sources.
- Sustained ingestion at high levels can cause many adverse health effects.



- **Thirty-six groundwater sites are contaminated with solvents, gasoline, heavy metals, PCBs, and/or VOCs.**<sup>7</sup>
- These chemical mixtures enter water through industrial/military discharges, storage tank leaks, and landfill leachate.
- If ingested through drinking water, the pollutants pose serious cancer and organ damage health risks.



- **Of the thousands of wetland acres lost, 36% of the total land acreage has the potential for restoration.**<sup>3</sup>
- Degradation and loss of Wisconsin wetlands is primarily due to invasives, development, and conversion to cropland.
- Wetlands absorb pollutants before they enter water, including drinking water; without them, we lose natural filters.



- **More than 35 miles of surface waters are listed as impaired under the Clean Water Act.**<sup>3</sup>
- The mercury, phosphorus, lead, and/or PCBs throughout are often from agricultural and industrial discharges.
- Ingestion of these pollutants can lead to organ damage, cardiovascular and reproductive issues, cancer, and more.



- **No surface waters are classified as Outstanding or Exceptional Waters by the state.**<sup>3</sup>
- These waterbodies support fisheries and wildlife and have high water quality from effective management and protection.
- As some drinking water is sourced from surface water, these are essential public health resources, too.



\*Public wells include [municipal, other than municipal, non-transient non-community, and transient non-community systems](#). <sup>1</sup>Wisconsin Department of Natural Resources (WDNR) Groundwater Retrieval Network; <sup>2</sup>WDNR data request; <sup>3</sup>WDNR GIS Open Data Portal; <sup>4</sup>Adapted from Salvatore et al. (2022); <sup>5</sup>Department of Agriculture, Trade, and Consumer Protection data request; <sup>6</sup>Environmental Protection Agency Enforcement and Compliance History Online; <sup>7</sup>WDNR Bureau for Remediation and Redevelopment Tracking System