

# 12

SENATE DISTRICT

# 2024\* Water Quality Report

177,000 Constituents | 73% Rely on Private Wells for Drinking Water

## PFAS Sources and Detects

There are 49 presumed PFAS sources, and 60% of state-tested wells had at least one of the chemicals in 2023.

## Nitrate Exceedances

From 2022 to 2024, 35% of public and 18% of private wells sampled exceeded the Preventive Action Limit for nitrate in drinking water.

## Wetland Loss

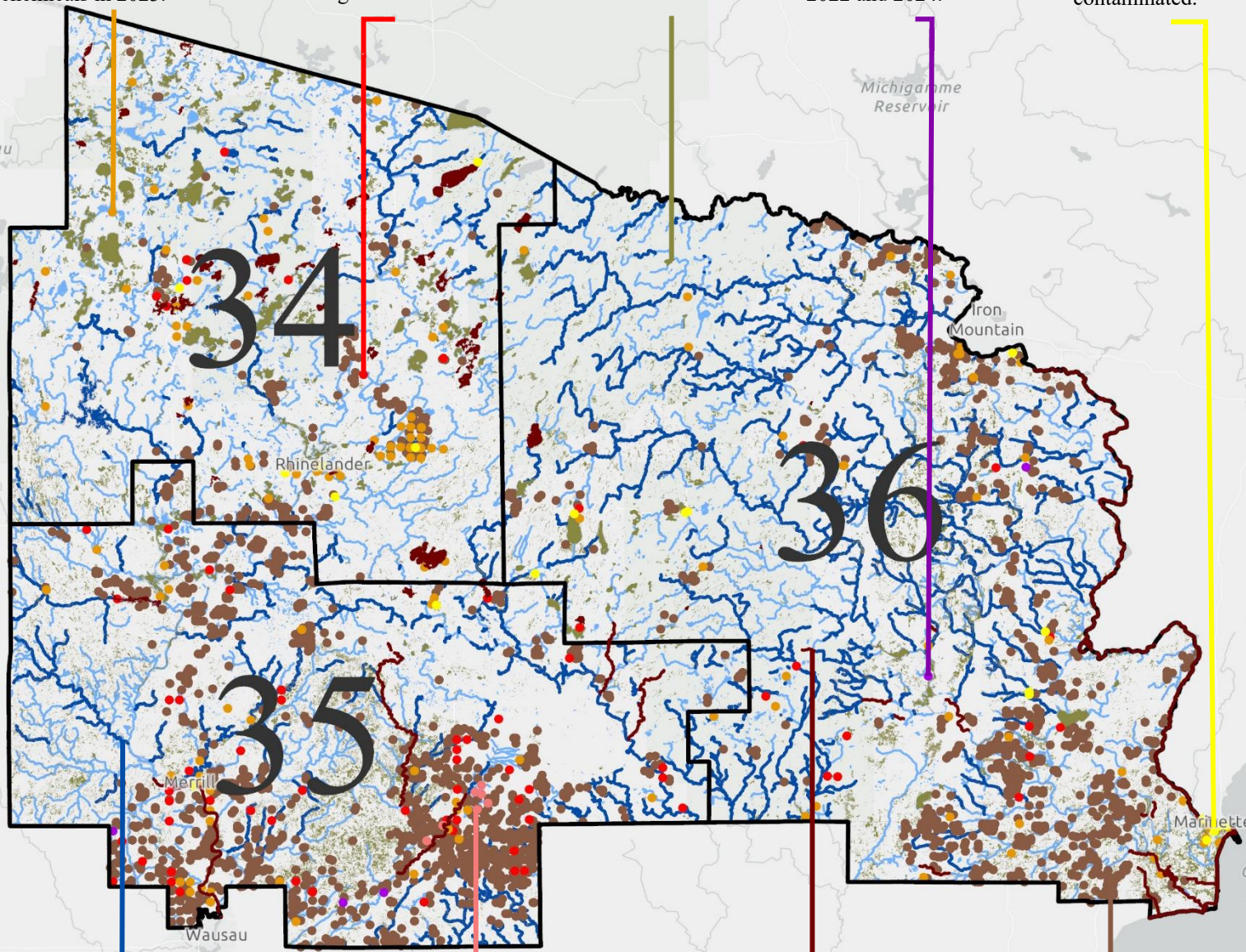
More than 354,000 acres of wetlands are categorized as lost but potentially restorable.

## Drinking Water Quality Violations

Approximately 0.5% of public water systems reported contaminant violations between 2022 and 2024.

## Groundwater Contamination Cleanup Sites

Twenty-seven groundwater sites are listed as contaminated.



## Outstanding/Exceptional Surface Waters

Almost 41% of river and stream miles and 8% of lake acres are classified as quality surface water.

## Neonicotinoid Detects

Between 2019 and 2023, 20% of state-tested wells contained one of three neonicotinoids.

## Impaired Surface Waters

Over 14% of total lake acres and 4% of river and stream miles are listed as impaired.

## Biosolids/Waste Landspreading Sites

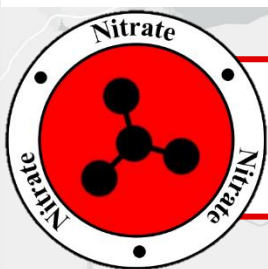
Septage, municipal, and industrial wastes are applied to over 71,000 acres.

For policy questions, contact Water and Agriculture Program Director Sara Walling at [swalling@cleanwisconsin.org](mailto:swalling@cleanwisconsin.org).  
For data questions, contact Clean Water Manager Hannah Richerson at [hricherson@cleanwisconsin.org](mailto:hricherson@cleanwisconsin.org).

\*Data available as of December 31, 2024.



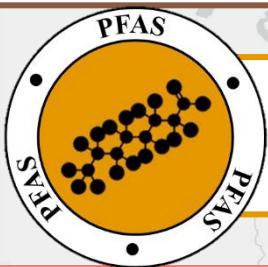




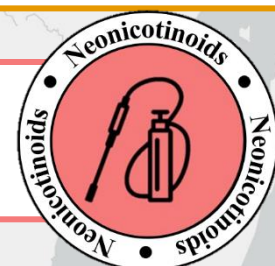
- **Four private and 115 public\* wells sampled exceeded the Preventative Action Limit from 2022-2024.<sup>1</sup>**
- Elevated levels of nitrate are generally due to agricultural runoff and industrial discharges.
- Nitrate has been linked to blue baby syndrome, colon cancer, thyroid disease, and neural tube defects.



- **Current permit holders have applied approximately 870 million gallons of waste to over 2,800 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.



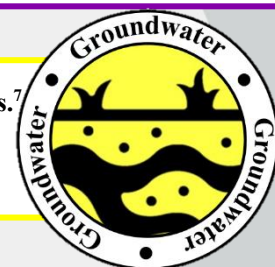
- **Ninety-seven private and 49 municipal wells tested by the state had detectable levels of PFAS in 2023.<sup>3</sup>**
- The 49 presumed sources include facilities that manufacture, manage, and/or discharge PFAS materials.<sup>4</sup>
- PFAS consumption can cause developmental effects in children, decreased fertility, and some cancers.



- **From 2019-2023, 12 private and monitoring well samples contained one or more 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.



- **Nitrate and bacteria violations occurred in five public\* water systems from 2022-2024.<sup>6</sup>**
- These contaminants often enter drinking water from agricultural operations, waste seepage, and natural sources.
- Sustained ingestion at high levels can cause certain cancers and gastrointestinal ailments, respectively.



- **Twenty-seven groundwater sites are contaminated with PFAS, solvents, metals, and/or volatile organic compounds.<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, 7% 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 65,000 acres and 200 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.



- **Over 2,200 miles and 35,000 acres of surface waters are classified as Outstanding or Exceptional 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.

Freeport

Rockford

Crystal Lake