

2024 Report on Water Resources



The *PEI Water Act* provides a mechanism to provide fair access to water for everyone, while ensuring the protection of one of our most important resources. This annual report provides a summary of some of the work and monitoring being done to protect our water resources.

Municipal & Industrial Wastewater



licensed facilities

64



wastewater samples

1,470



septic contractors
(3 new in 2024)

59



site assessors
(8 new in 2024)

64



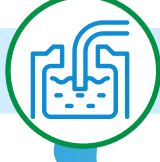
septic installation
registration documents

691



septic site assessment
Registered Documents

796



licensed septic
pumpers

29

Pesticide Monitoring

PEI has been monitoring pesticides in water since 2004. There has never been a result above Human Health Reference Values.

Groundwater

5,700 groundwater analyses
123 (2.1%) analyses with detections
0 above health guidelines

Stream Water

1,700 stream analyses
64 (3.8%) analyses with detections
13 (0.8%) above aquatic life guidelines

Drinking Water & Wastewater

Managing and protecting drinking water and wastewater systems is central to the Department's work

17 Permits issued for maintenance
36 Permits issued for construction

\$34,883,574 Upgrades to Drinking
Water and Wastewater:

- Treatment Plant Upgrades \$3,804,726
- Water distribution: \$15,358,694
- Wastewater collection: \$15,720,154

117 certified operators



Drinking Water Sampling

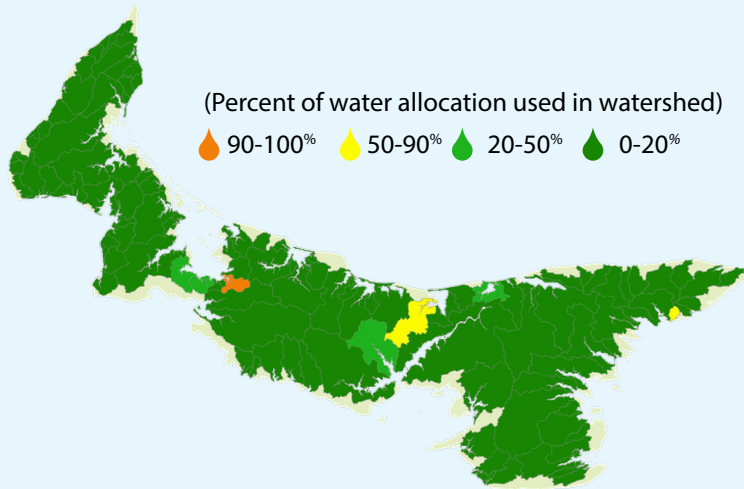
The PEI Analytical Laboratory processes the majority of water samples for PEI

- 20,906 drinking water samples taken
- 17,784 private drinking water samples
- 3,122 Municipal drinking water samples
- 140 properties with E. coli
- 3,425 samples with ≥ 10 total coliform



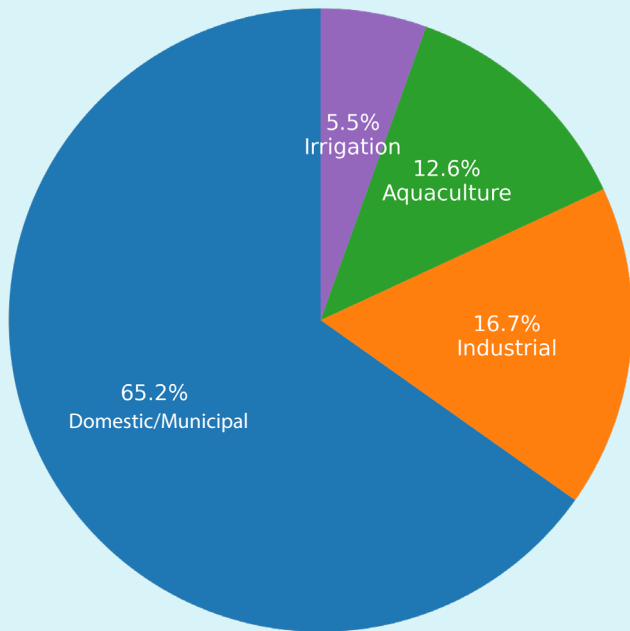
Watershed Quantity Indicator

In 2024, 107 of 115 watersheds utilize less than 20% of the water available for use.



Total Water Usage Comparison by Purpose

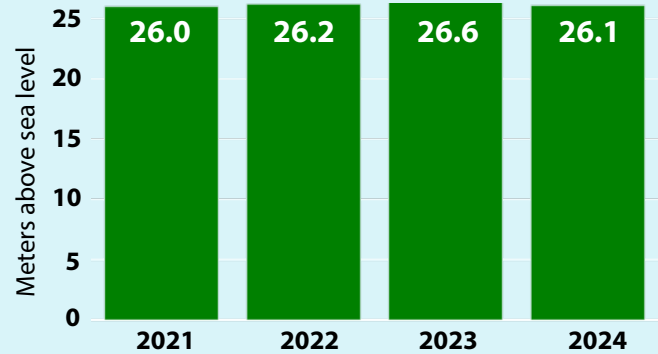
Over 60% of extracted fresh water in 2024 was used for domestic use. 557 new wells were drilled in 2024, with 14 of them being high capacity wells.



Groundwater Quantity

Levels in our groundwater monitoring wells are generally consistent from year to year.

Annual average level across 14 monitoring wells



Ponds, Streams and Estuaries

The province tracks various parameters in ponds, streams and estuaries. Values for 2024 include:

PEI Waterbodies

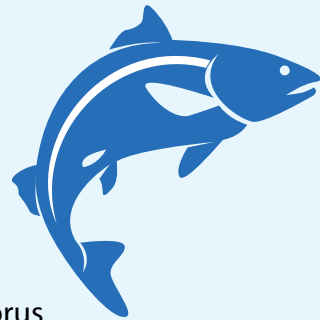
- 23 Confirmed Anoxic Estuaries
- 5 Confirmed Lakes/ Ponds with Cyanobacterial Blooms

Tracked Rivers

- 30% > 3 mg/L Nitrate
- 70% > 35 µg/L Total Phosphorus
- 43% Good or Excellent Water Quality for Benthic Invertebrates

Irrigation

0 surface water irrigation permits suspended due to drought



For more details contact the PEI Department of Environment, Energy and Climate Action @ DeptEECA@gov.pe.ca or visit the PEI Water Registry - water.princeedwardisland.ca

