

Annual Program Objectives

- Verify groundwater flow direction
- Monitor changes to on-site groundwater quality to identify new issues in a timely manner and assess historical issues
- Monitor groundwater quality at the site boundary to confirm there are no off-site impacts



PN | Program Overview

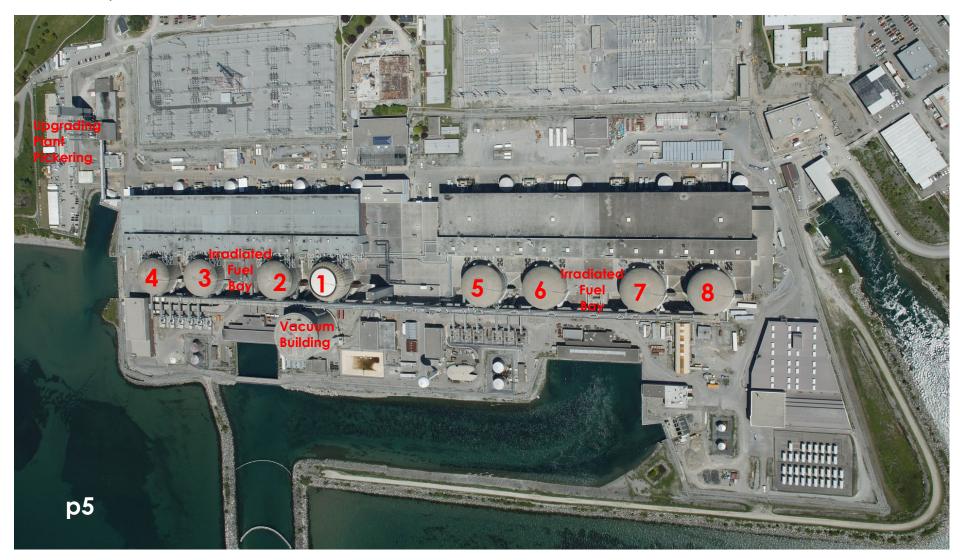


р3

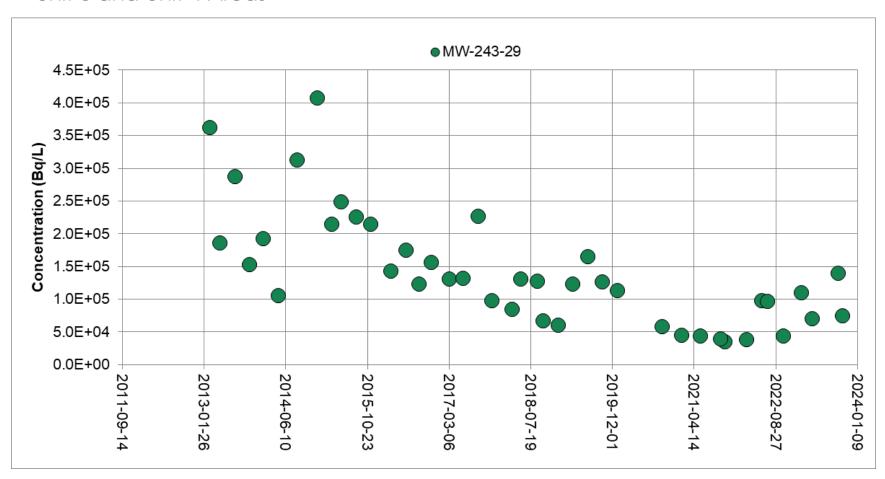
PN | Groundwater Flow Direction



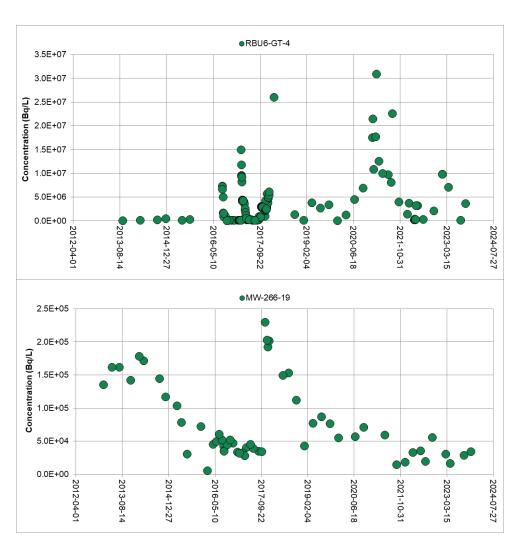
Key Areas Monitored



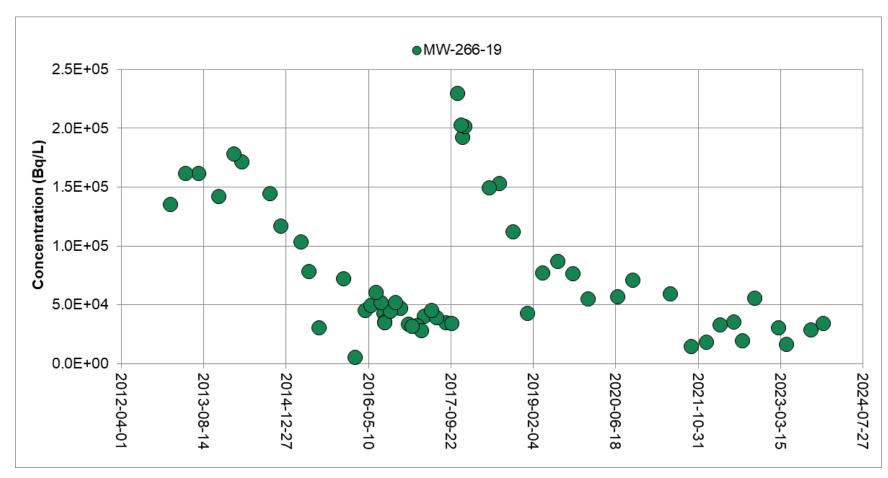
Unit 3 and Unit 4 Areas



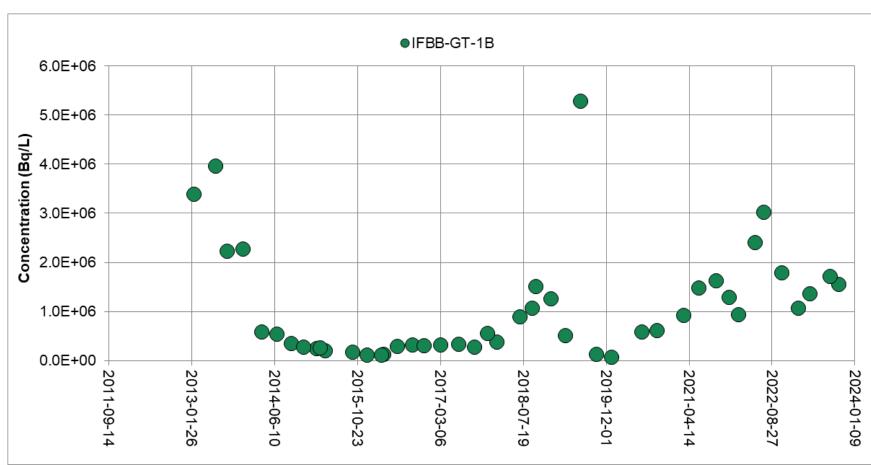
Unit 5 and Unit 6 Areas



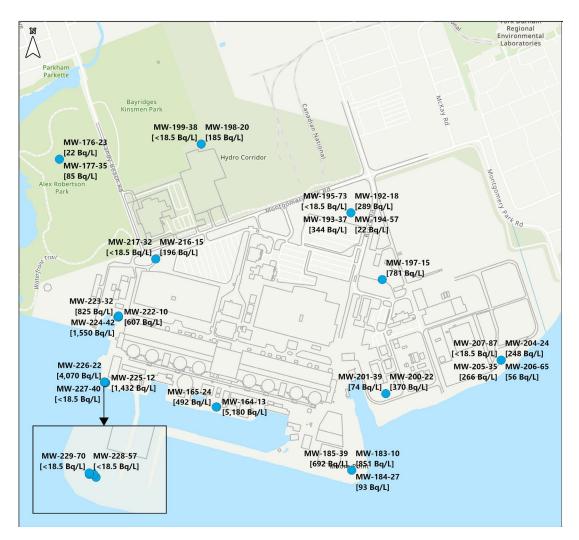
Unit 5 and Unit 6 Areas



Unit 5 – 8 Irradiated Fuel Bay Area



PN | Site Boundary Groundwater Quality

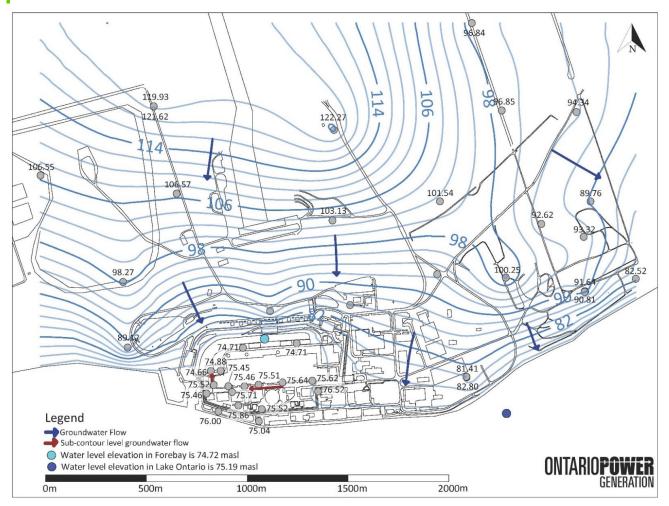


DN | Program Overview



- √ 62 sampling locations
- ✓ 139 samples

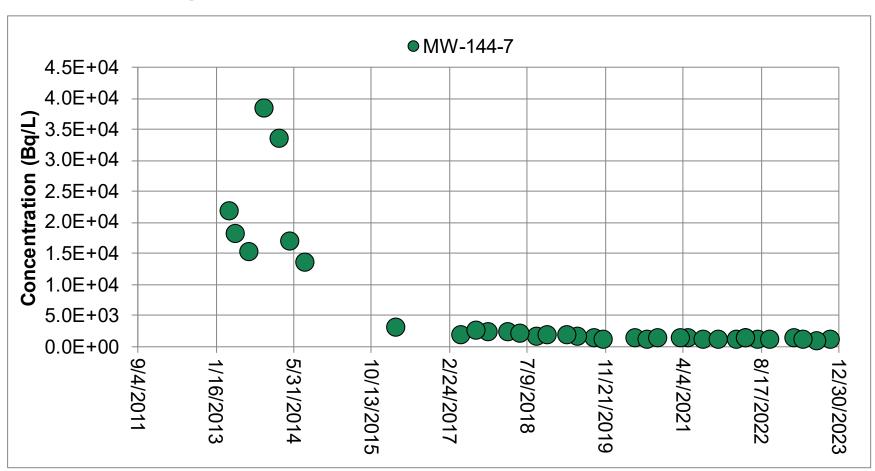
DN | Groundwater Flow Direction



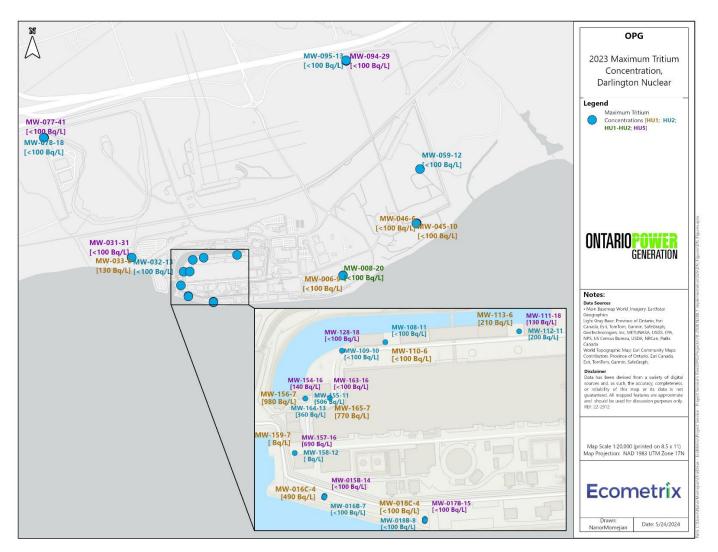
Reactor Building Area



Reactor Building Area



DN | Site Boundary Groundwater Quality



2023 Summary

- For both Pickering Nuclear and Darlington Nuclear, the groundwater flow patterns remain consistent with original interpretations.
- Groundwater data collected from the key areas remained stable, which indicate consistent environmental performance.
- There were no indications of off-site impacts from PN and DN groundwater

Groundwater reports and GIS Maps are available at opg.com.



Questions ??