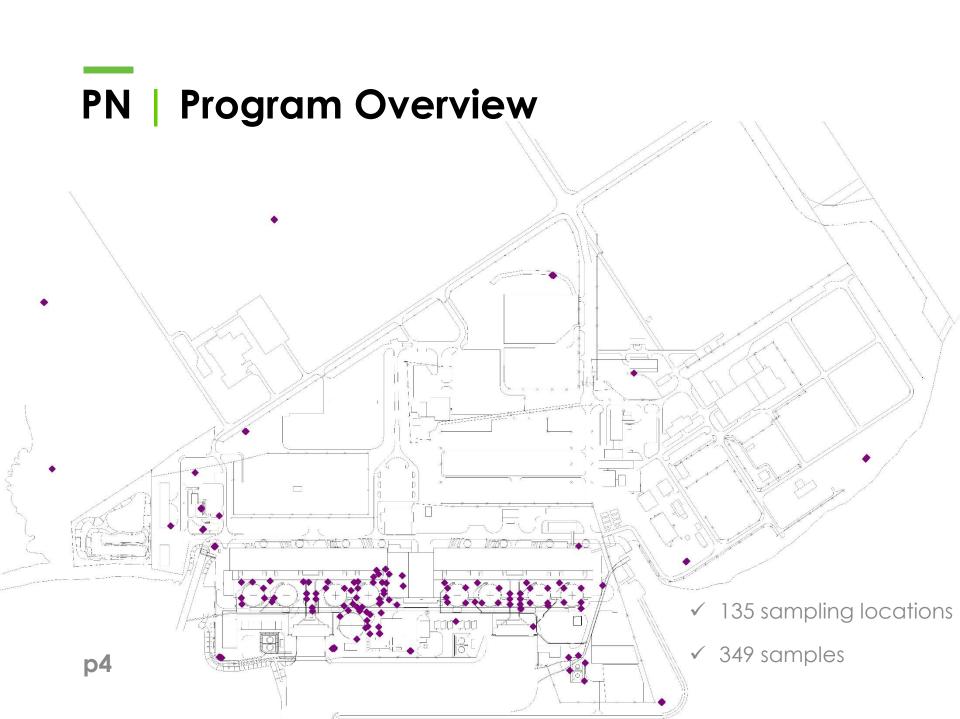


Annual Program Objectives

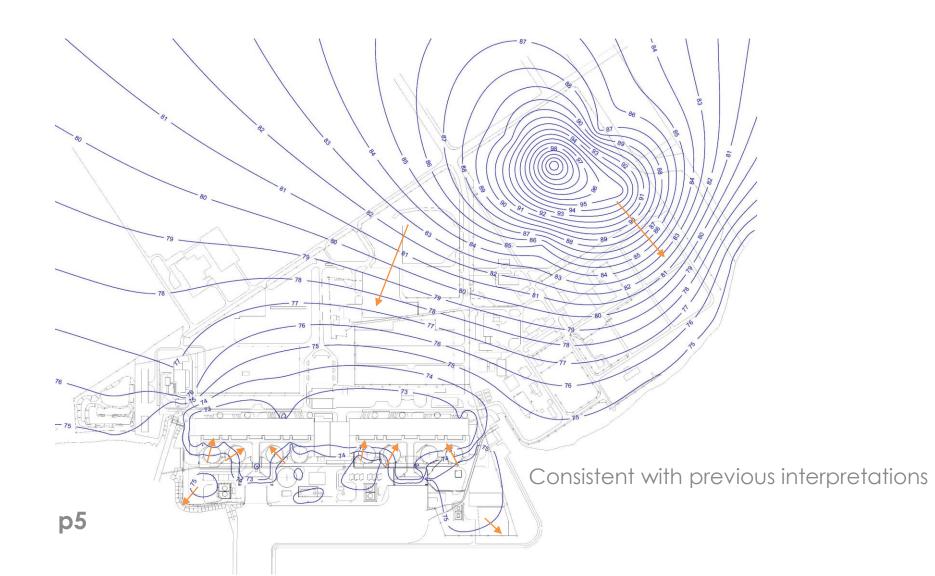
- Verify groundwater flow direction
- Monitor changes to on-site groundwater quality to identify new issues in a timely manner and assess historical issues
- Monitor groundwater quality at the site boundary to confirm there are no adverse off-site impacts



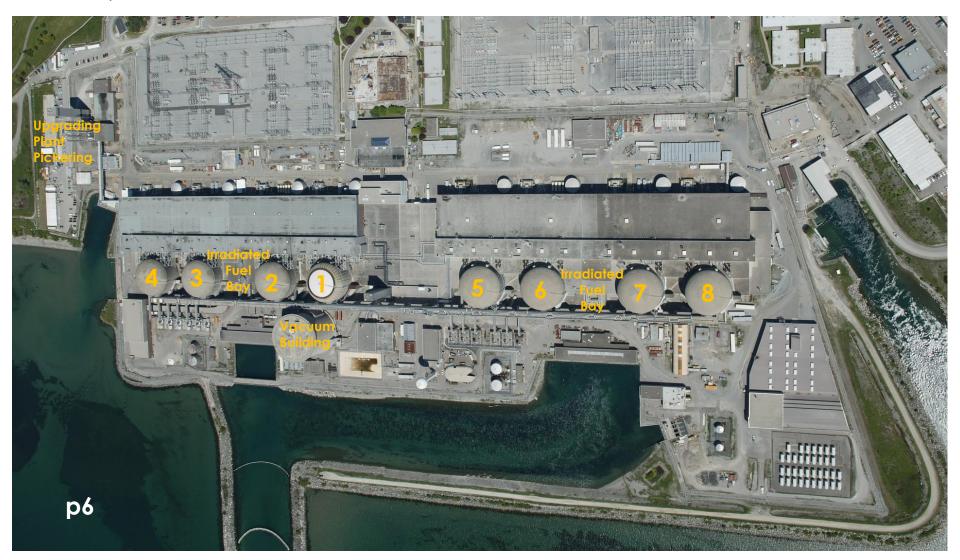




PN | Groundwater Flow Direction



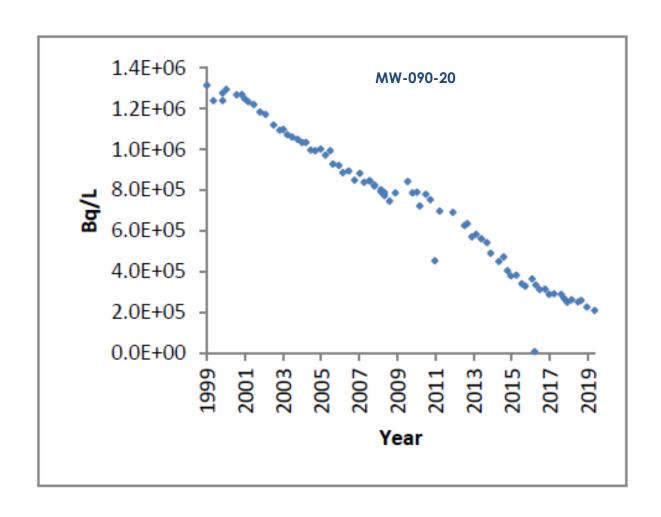
Key Areas Monitored



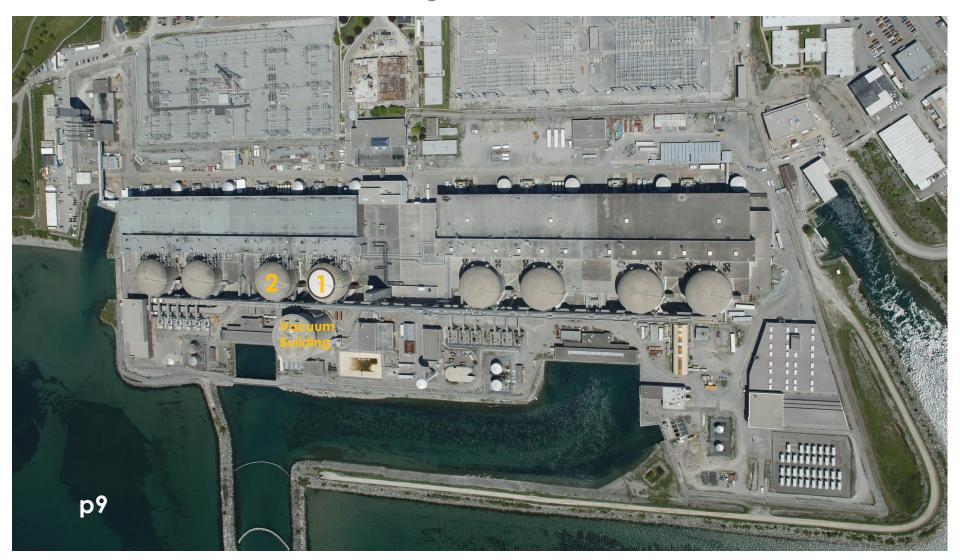
Upgrading Plant Pickering Area



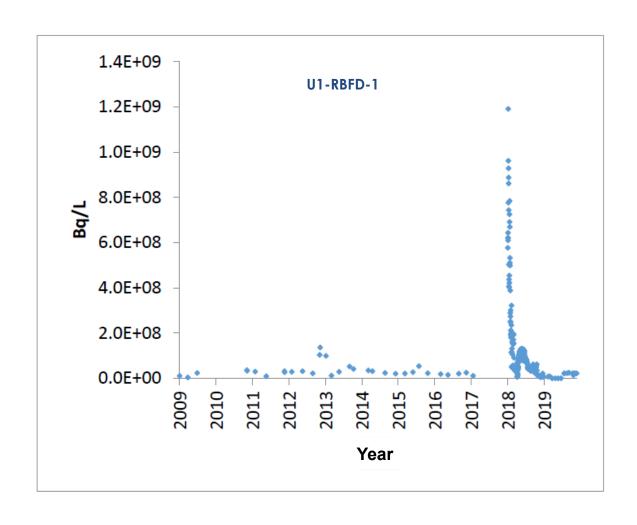
Upgrading Plant Pickering Area



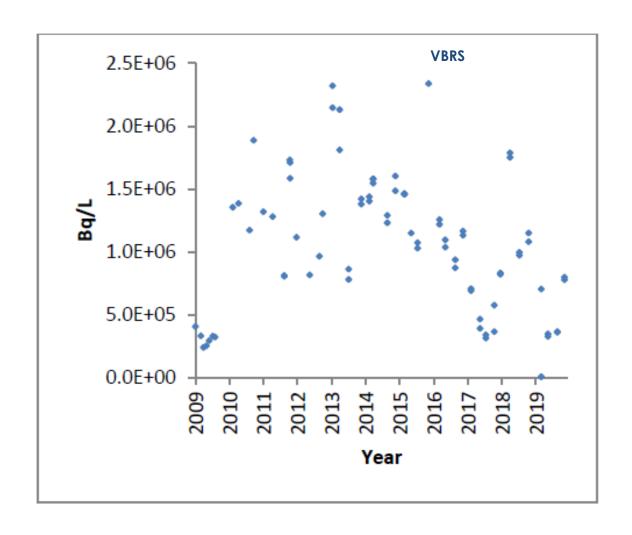
Unit 1, Unit 2, and Vacuum Building Areas

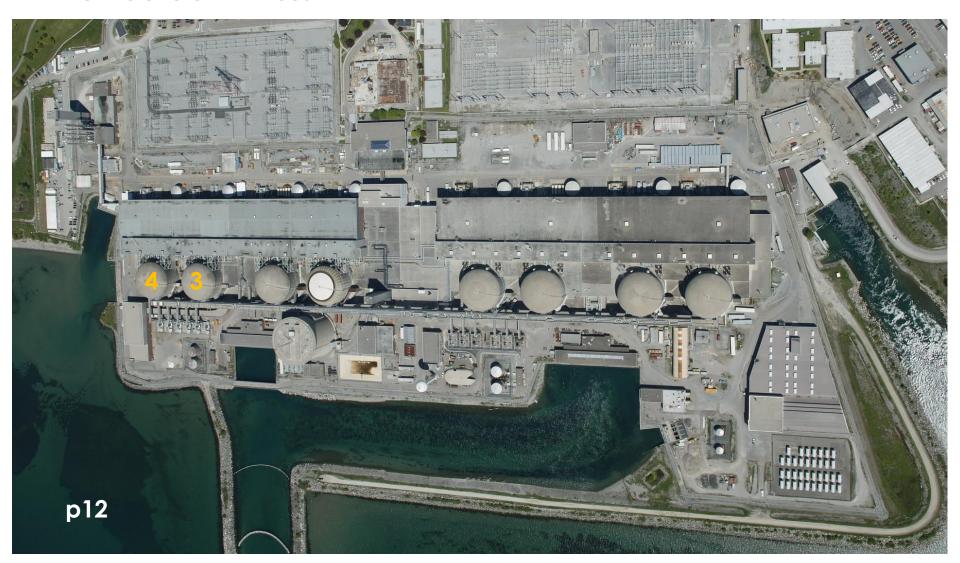


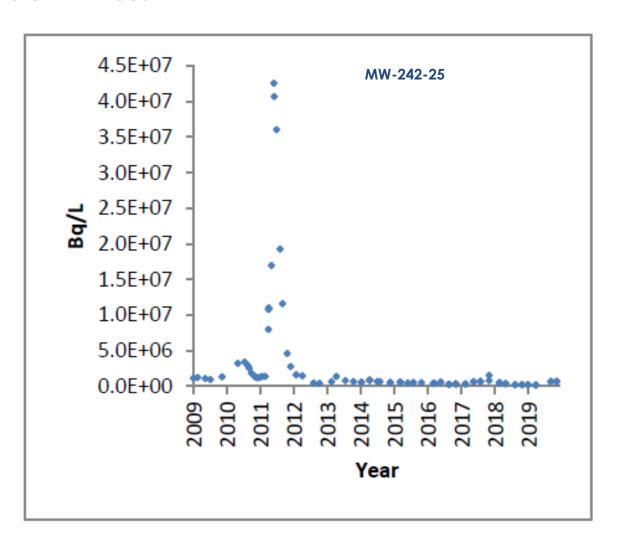
Unit 1, Unit 2, and Vacuum Building Areas



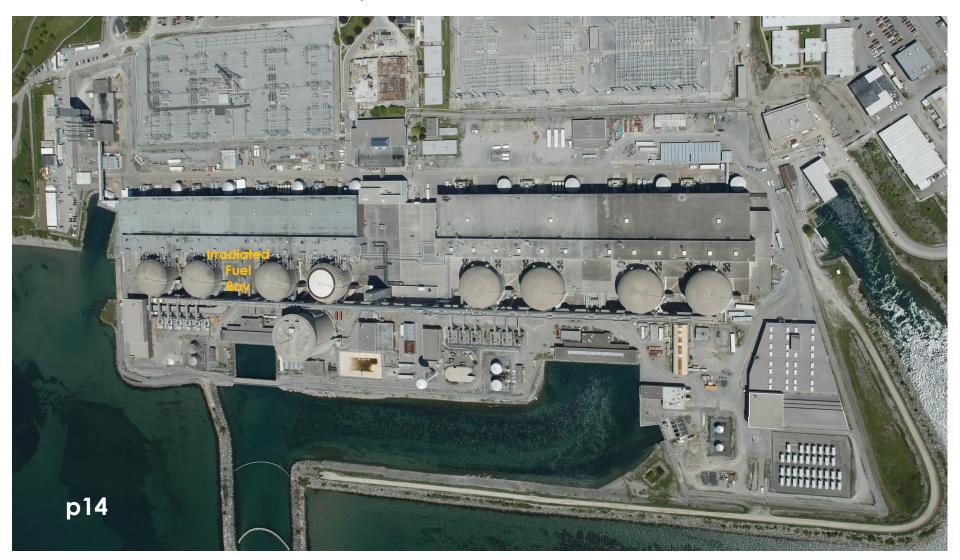
Unit 1, Unit 2, and Vacuum Building Areas



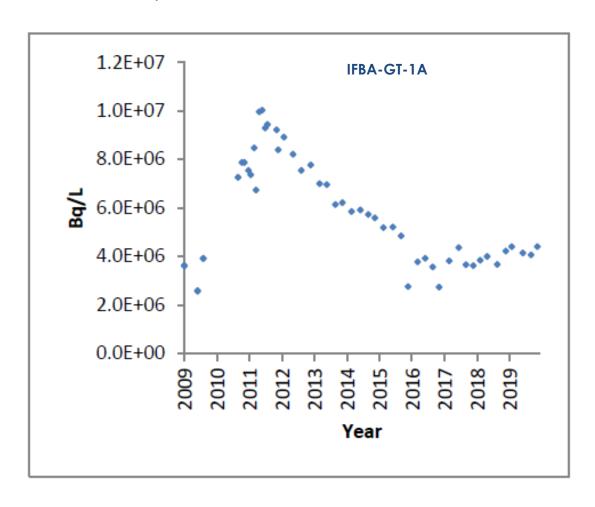


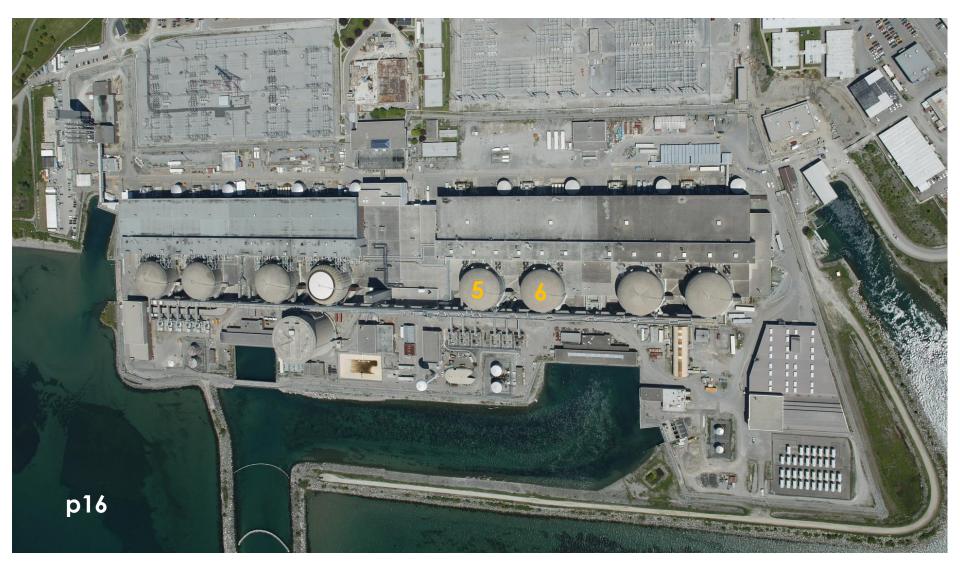


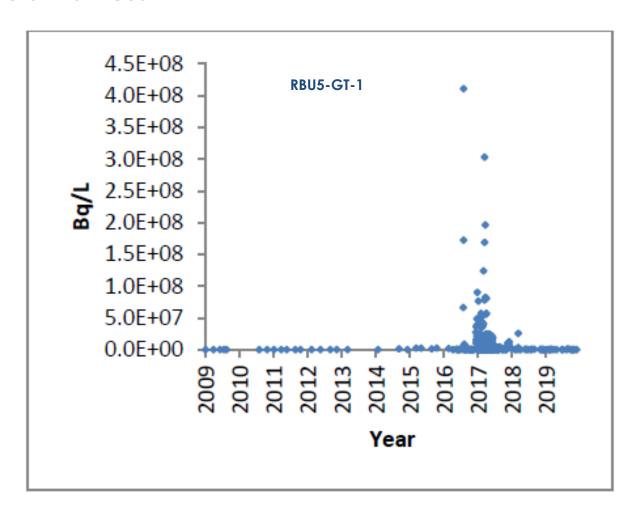
Unit 1 – 4 Irradiated Fuel Bay Area

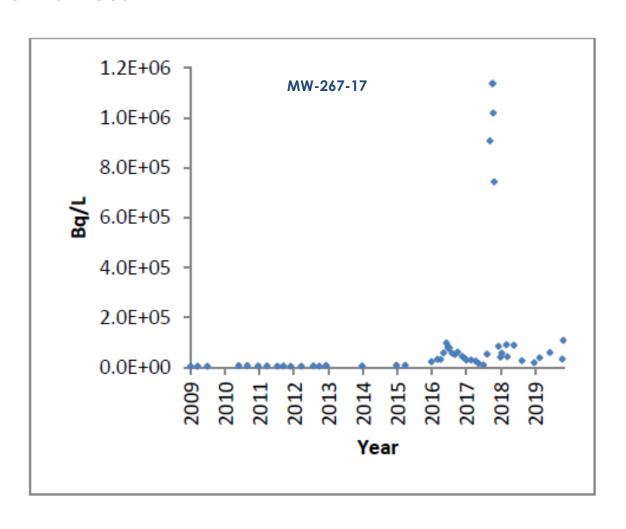


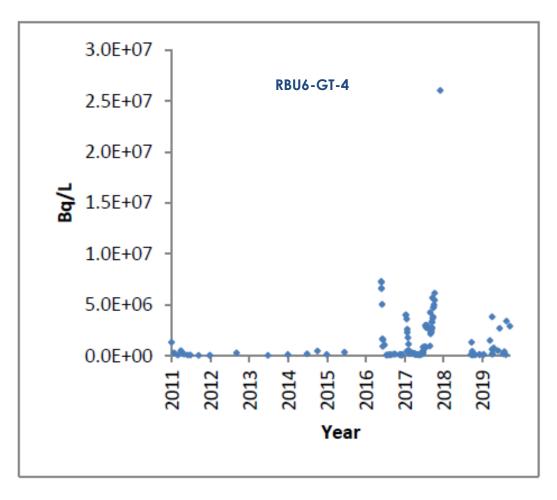
Unit 1 – 4 Irradiated Fuel Bay Area

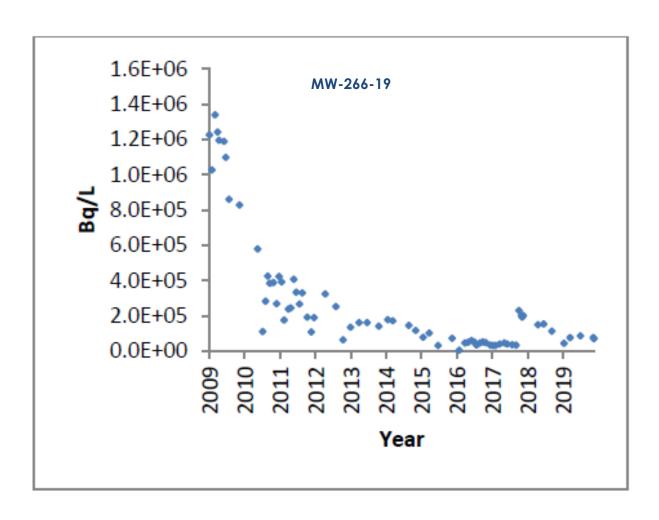


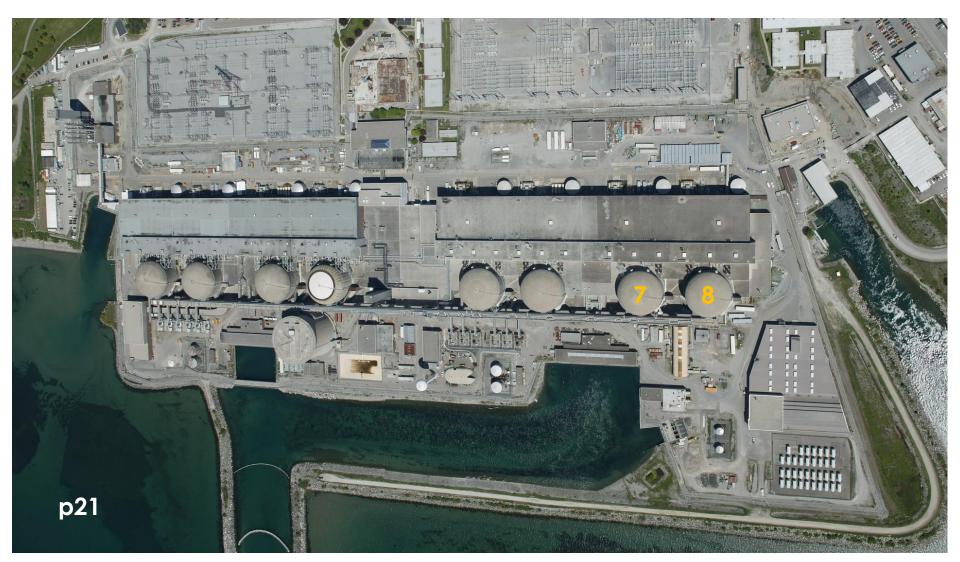


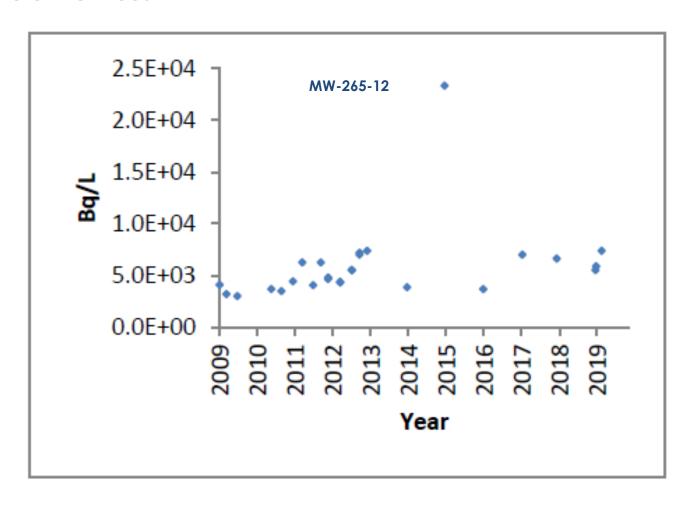


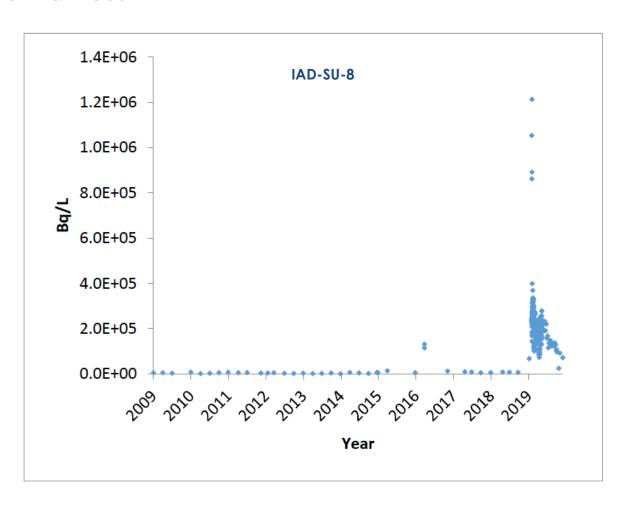




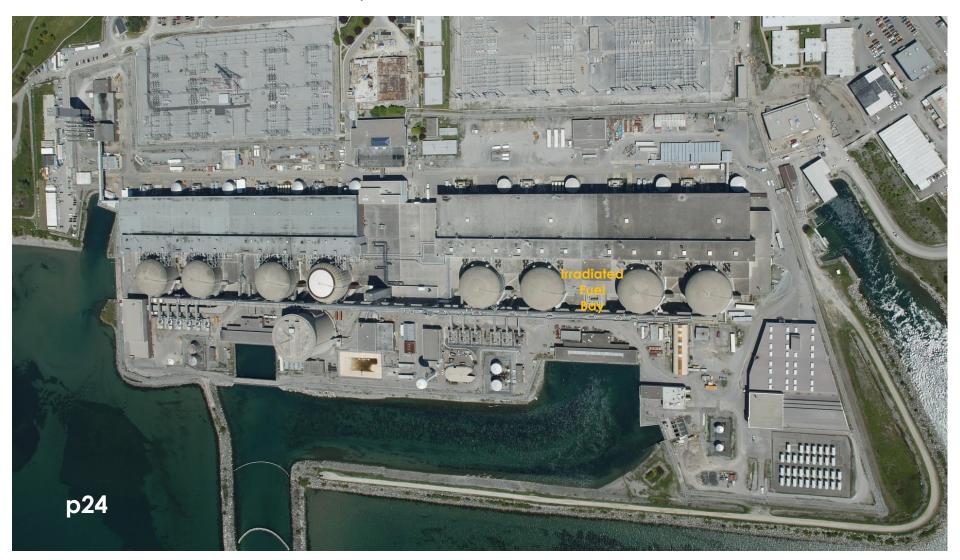




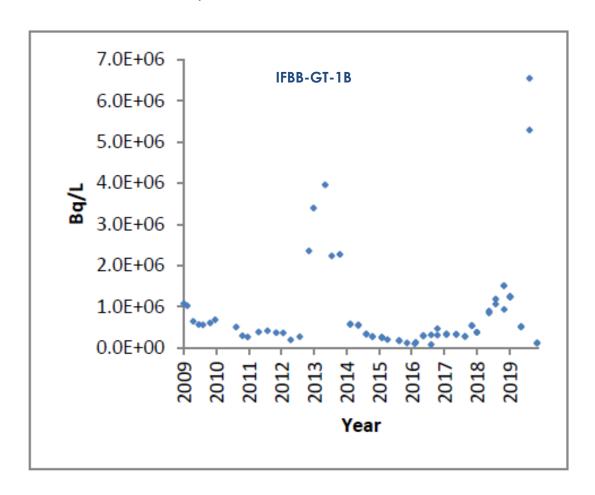




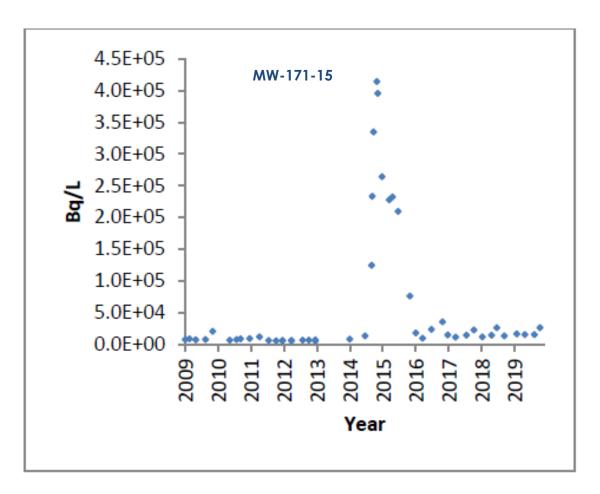
Unit 5 – 8 Irradiated Fuel Bay Area



Unit 5 – 8 Irradiated Fuel Bay Area



Unit 5 – 8 Irradiated Fuel Bay Area



PN | Site Boundary Groundwater Quality



2019 Summary

- The Pickering Nuclear groundwater flow patterns remain consistent with original interpretations
- Groundwater data collected from key areas indicate that tritium concentrations have remained constant or decreased, which indicate stable or improved environmental performance
 - There was an emerging groundwater matter identified at the PN Unit 8 area in 2019
 - Corrective actions undertaken to address the source and monitoring continues
- There were no indications of adverse off-site impacts from PN groundwater



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