Per and Polyfluoroalkyl Substances (PFAS) Assessment at the Penticton Airport and Neighboring Penticton Indian Band Lands

November 1, 2024

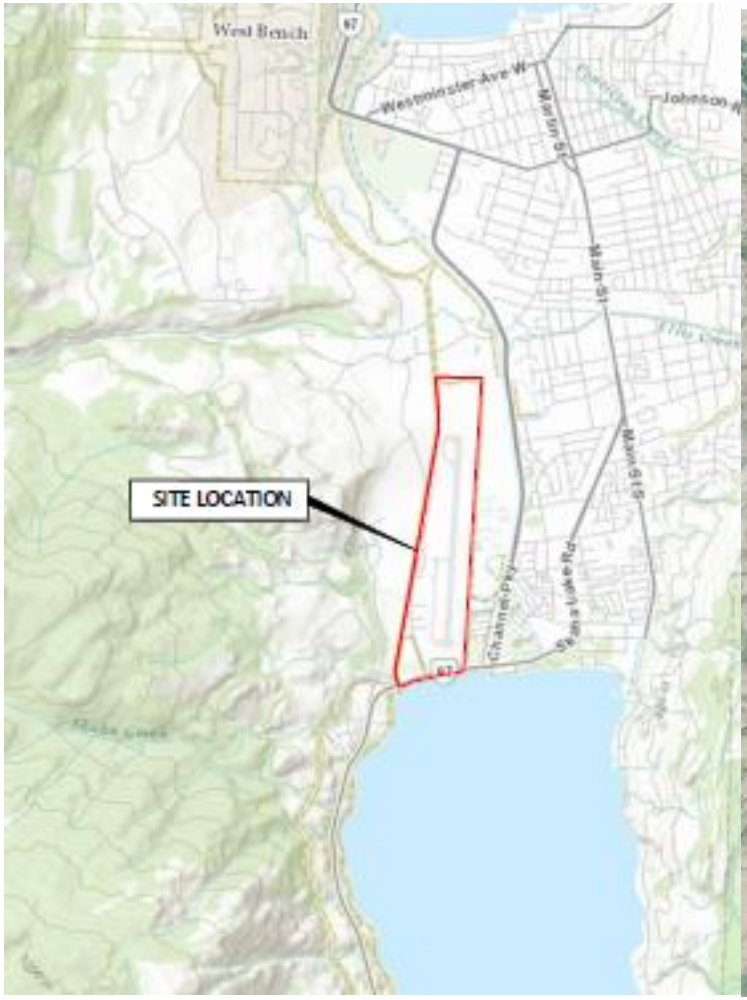
Overview

- Working together with the Penticton Indian Band
- What are PFAS?
- What do we know about PFAS at the Penticton Airport?
- What this means for you and why we have asked you to come to this meeting.
- Next Steps – environmental testing
- Questions

What is PFAS

- Per and polyfluoroalkyl substances are a group of over 4,700 human-made substances.
- PFAS are pervasive and used in a wide range of consumer products including:
  - Lubricants, Cosmetics, Surfactants, Firefighting foams, Non-stick cookware, Food packaging materials, Repellents (for dirt, water, and grease)
- PFAS are in fire-fighting foams used to extinguish fuel-based fires at airports.
- Science is still evolving and human health risks are not fully understood.

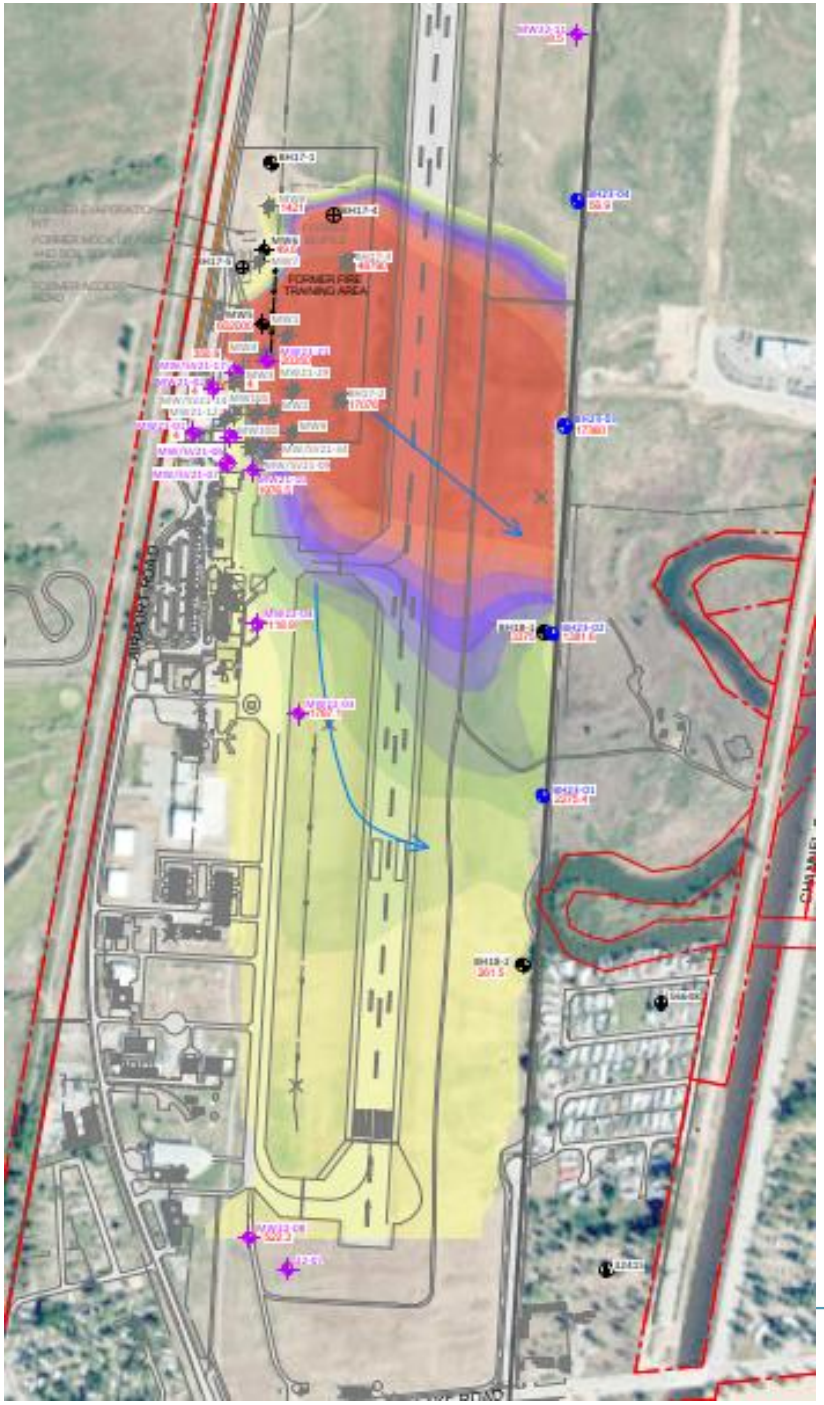
What do we know about PFAS at the Penticton Airport





Groundwater Summary – Total PFAS

- → Blue Arrow; Inferred Direction of Groundwater Flow
- PFAS concentrations are highest at the FTA and monitoring wells to east/southeast.



What does this mean for you?

- PFAS can affect human health and the environment.
- Further testing is necessary to assess whether PFAS is present on Penticton Indian Band Lands outside of the Airport.
- We would like to work with Penticton Indian Band members to assess whether PFAS is present in well water, soil, groundwater and/or surface water on your property and do this testing.

2024-2025 Proposed Assessment Locations

- **Blue** = Proposed monitoring well installation locations
- **Purple** = Proposed surface water sampling locations
- **Yellow** = Proposed water supply well sampling locations (exact well locations unknown)



Equipment to be used







2024-2025 Proposed Assessment Timeline

- **November 2024:**
  - Complete sweeps for underground utilities at all proposed drilling locations.
  - Drill soil borings and install monitoring wells outside the west side of the Airport and along the west bank of the Okanagan River Channel (east of the airport boundary).
  - Collect surface water samples from oxbows on PIB land east of the airport, and locations along the Okanagan River Channel east of the airport.
  - Collect water samples from 2 water supply wells on PIB land (Skaha Meadows Golf Course and Barefoot Beach Resort)
- **December 2024:**
  - Sample groundwater from the newly installed monitoring wells.
- **February 2025:**
  - Second round of groundwater monitoring and sampling of newly installed monitoring wells installed in November 2024.

Proposed Next Steps

1) Seek your permission to come onto your property to collect samples and test for PFAS.
2) If your permission is granted, sign the *Holder Permission for Access to Property* form.
3) SLR Consultants to conduct sampling.
4) The results of the sampling will be analyzed and put into a draft report to be presented to the TC/PIB PFAS Working Group for review.
5) If there are any results that should be acted upon immediately, you will be immediately contacted and notified of the next steps to be taken.



Questions?