

***Permit to Take Water (PTTW)
&
Drinking Water Source Protection (DWSP)***

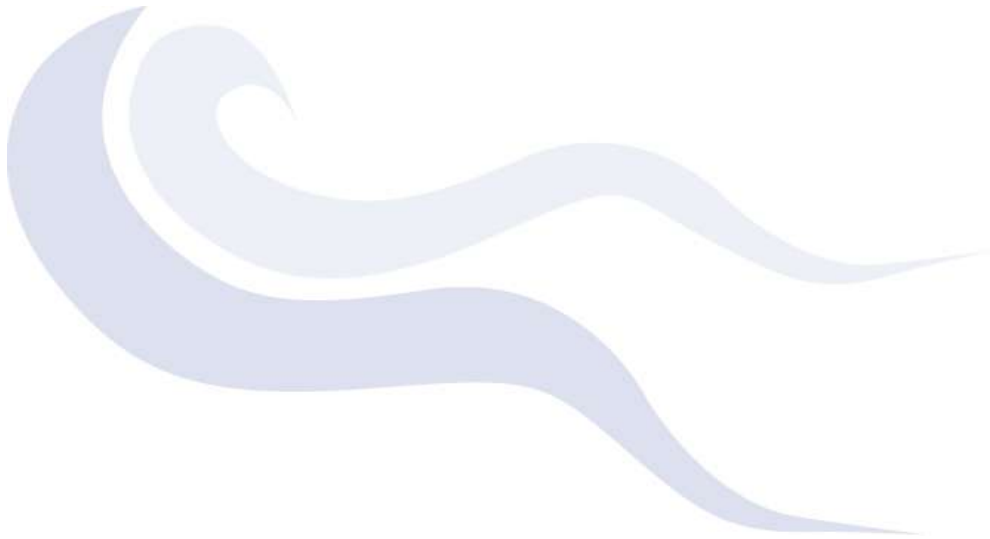
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**Source Protection Committee
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1. How is PTTW data used in DWSP?

2. What impacts could DWSP have on PTTW?

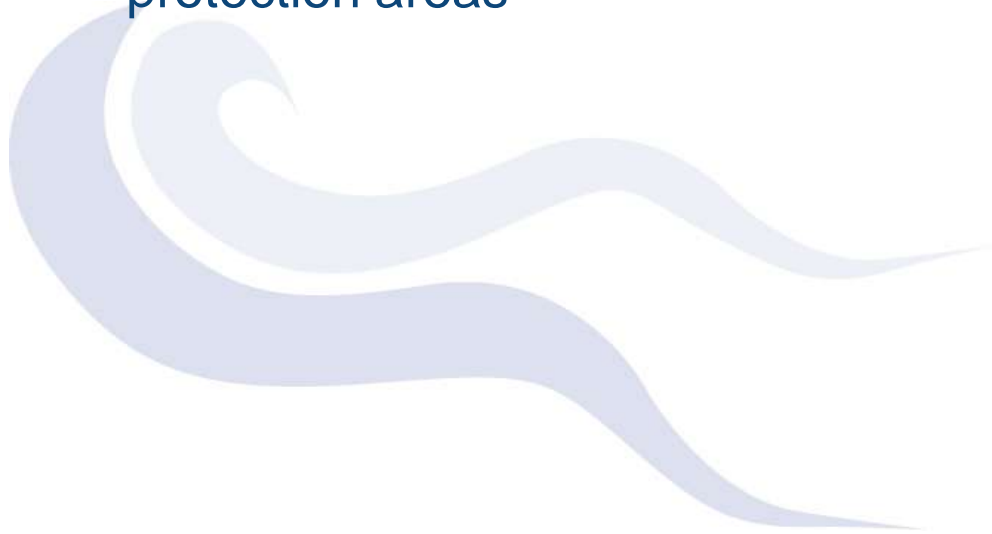


Water Budget

- Maximum water takings in the PTTW database (and consumptive use factors and seasonal factors developed by the province) used to estimate water takings in the watersheds for the Conceptual and Tier-1 Water Budgets
- Updated PTTW database containing actual water takings (instead of the permitted values) used to estimate water takings in the subwatersheds for the Tier-2 Water Budgets

Wellhead Protection Area Studies

- The large groundwater based takings identified in the PTTW database and located near the municipal well fields were embedded in the groundwater flow models used to delineate wellhead protection areas



New information to consider in assessment of PTTW Applications

- Computational Hydrological Models of varying capability and resolutions developed as part of tiered water budget process
- Models/info can be used by CAs, MOE, and other stakeholders to assess future & current permit applications with respect to the hydrological regime, including low flow conditions/level of stress
- Water Quantity based Vulnerable Areas & Drinking Water Threats (identified in Tier-3 Water Budgets) may identify major water taking activities that would have to be managed
- Potential impacts on future permit applications as well as extensions of current applications