



ASSESSMENT & PROTECTION OF GROUNDWATER



Oyster River Water Supply

Comox Valley Regional District (CVRD)

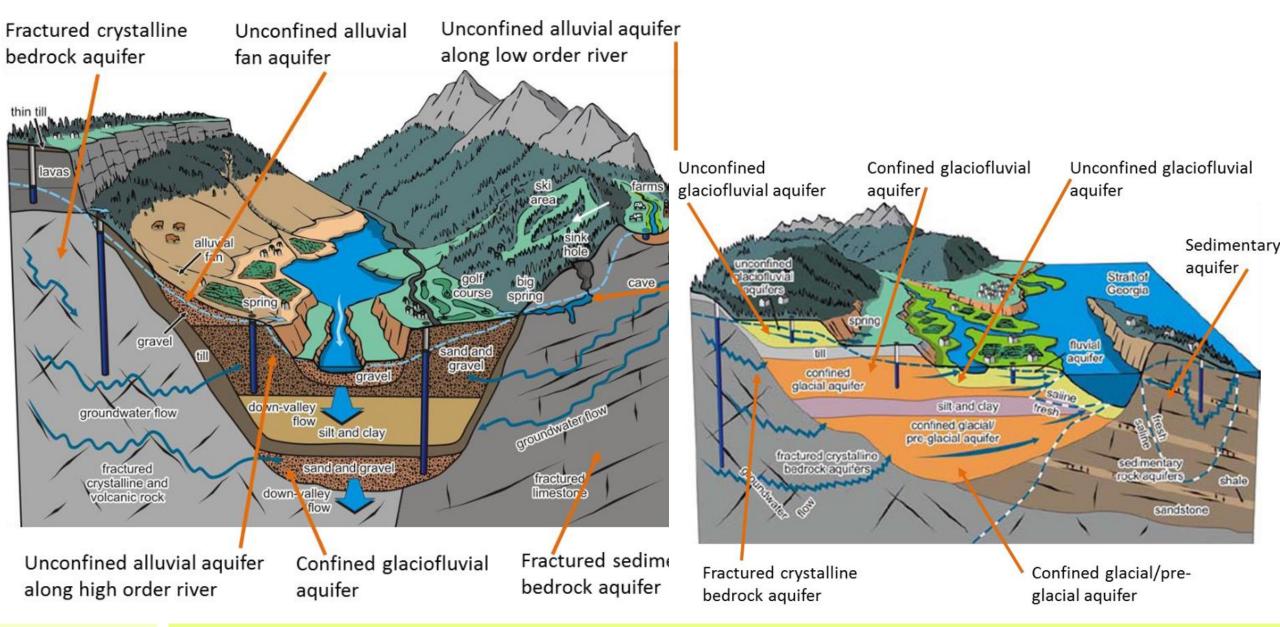




Outline

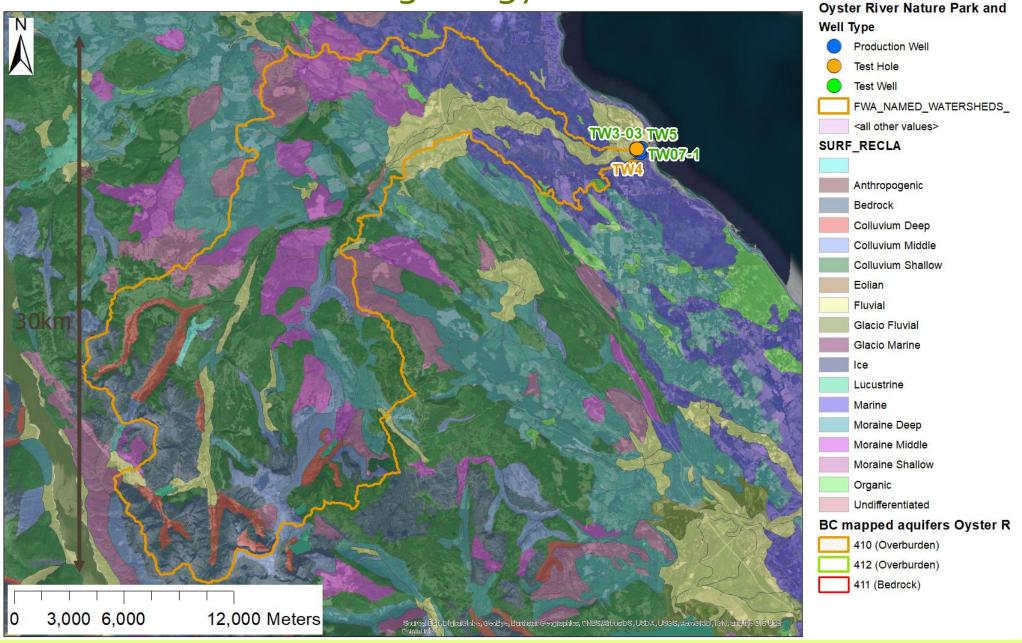
- Type of aquifers on Vancouver Island
- Oyster River watershed and surficial geology
- Mapped aquifers (extent and thickness)
- Current water supply system
- Groundwater flow direction and well field capture zones

Type of aquifers on Vancouver Island



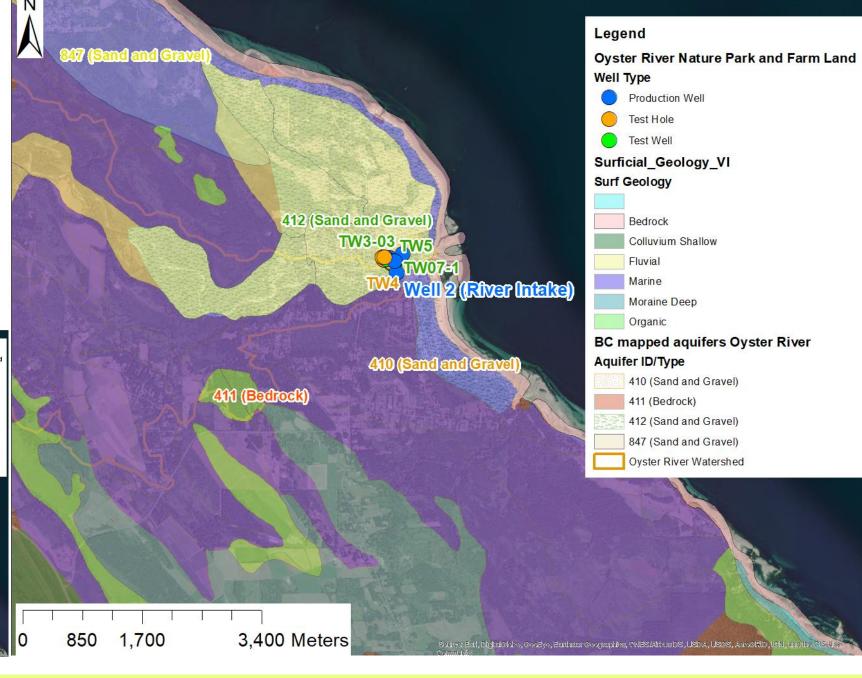
Oyster River watershed and surficial geology

Oyster River watershed area 361.8 km2

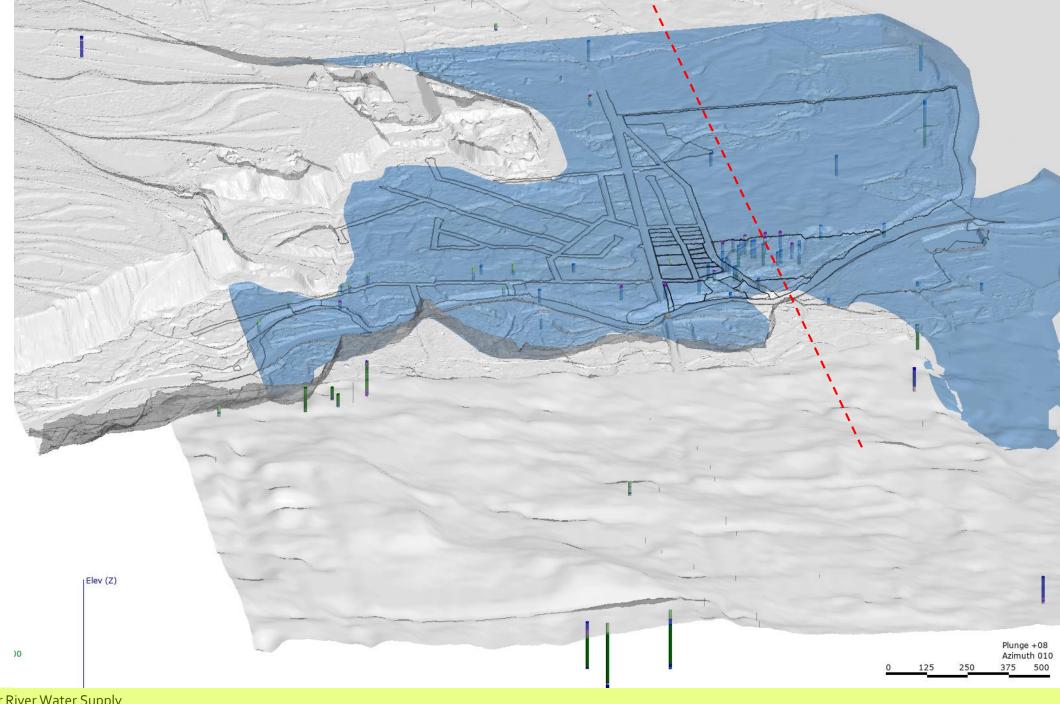


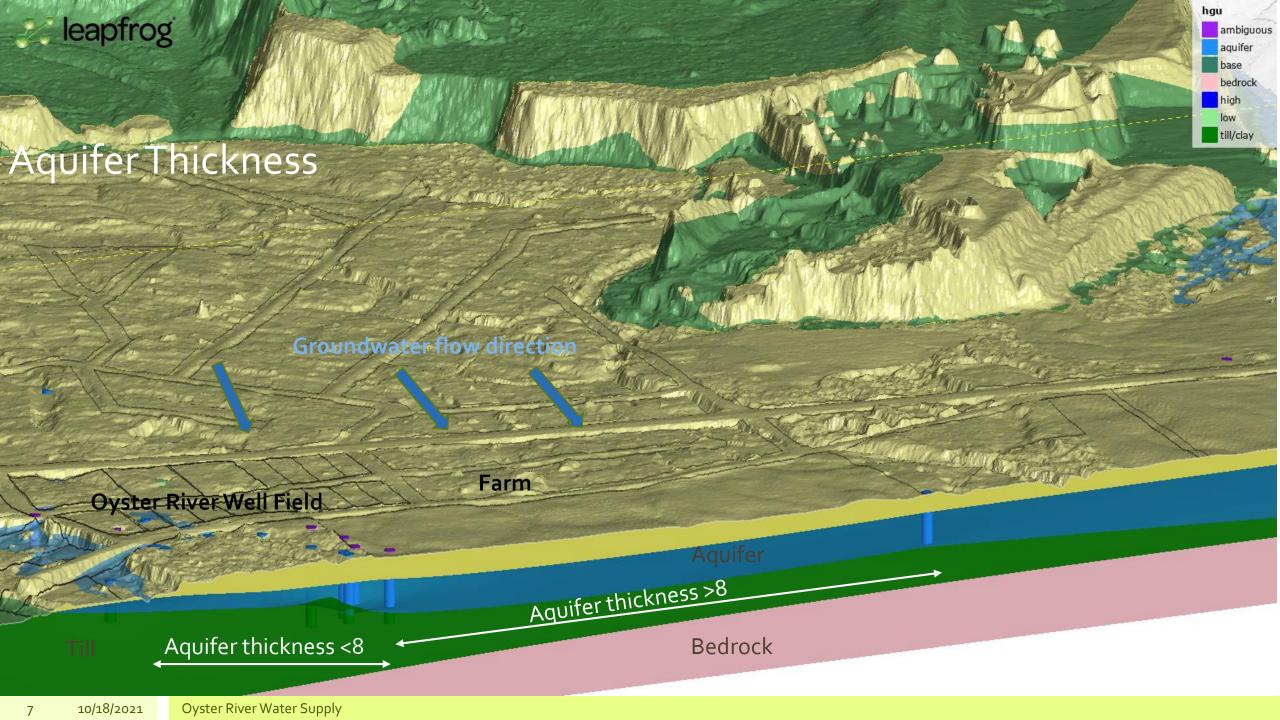
Mapped aquifers





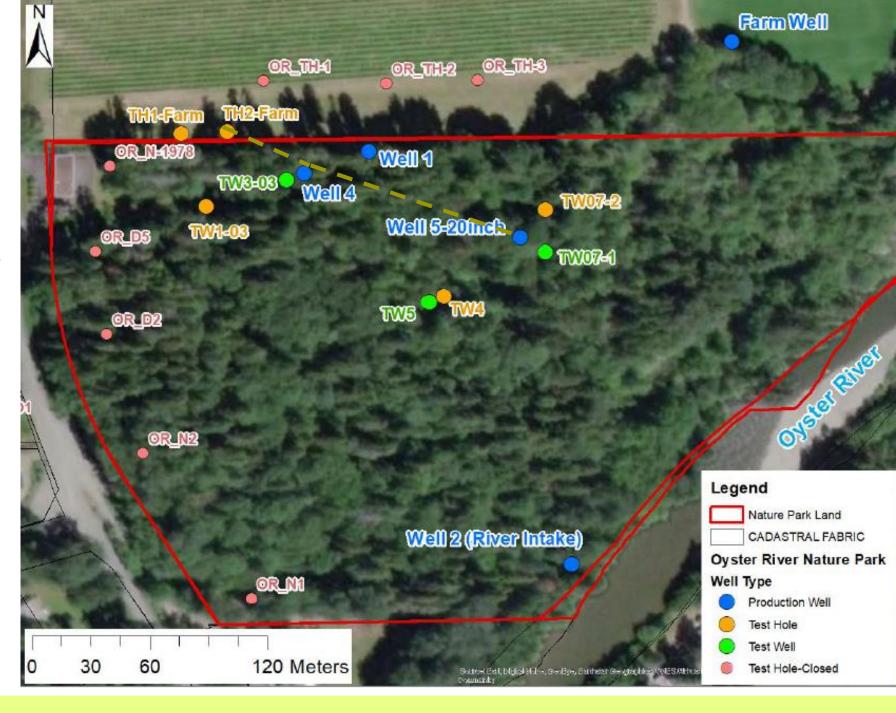
Aquifer extent

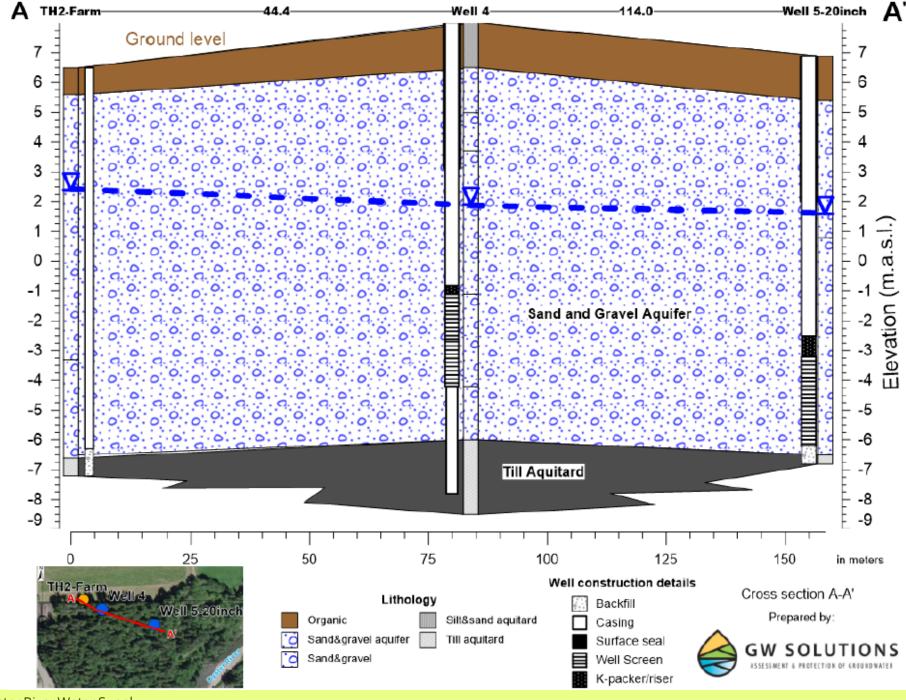


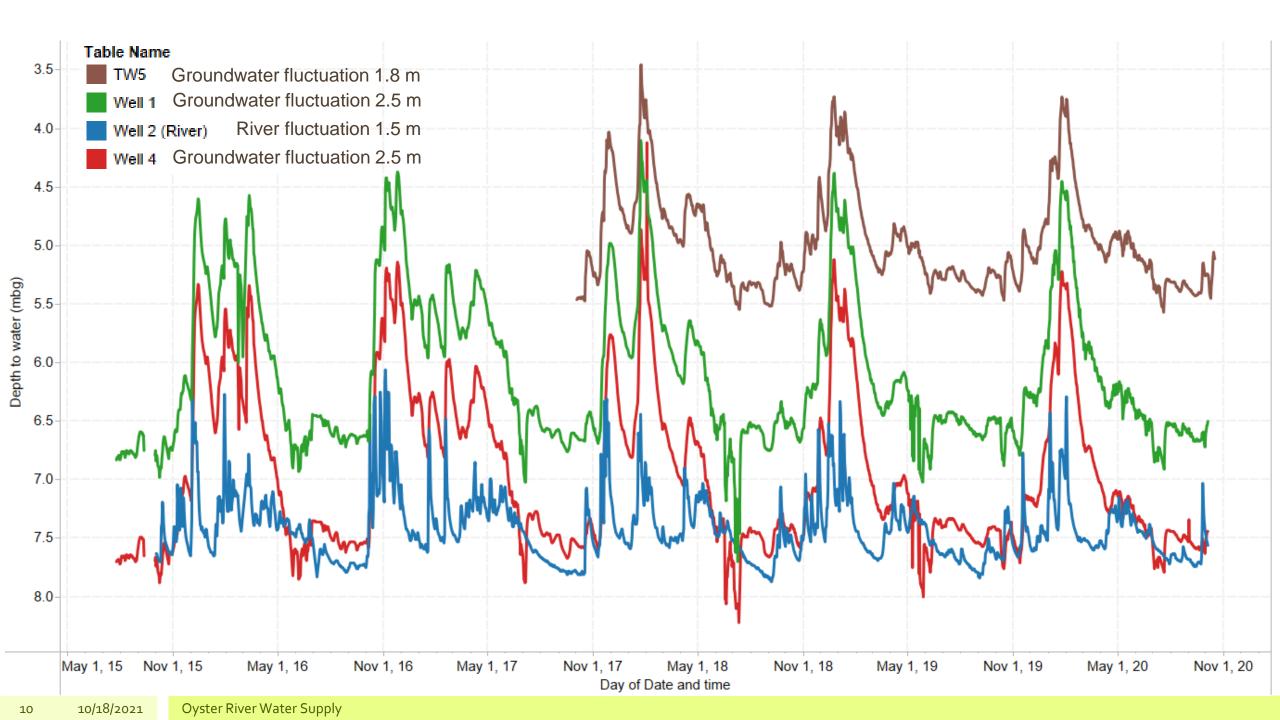


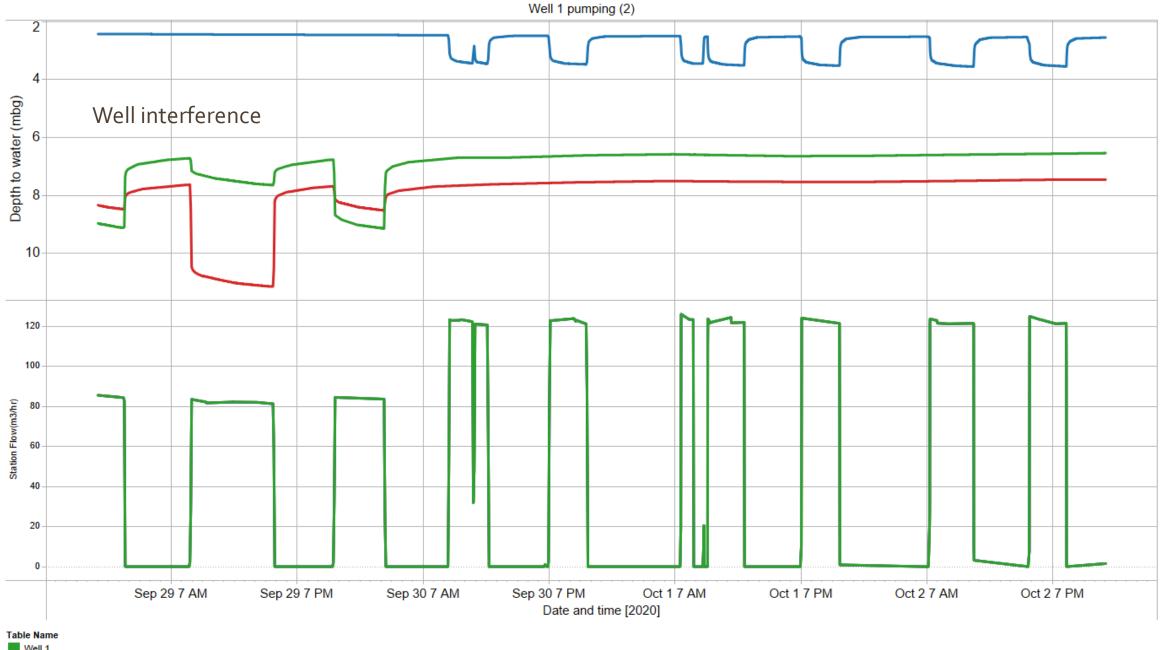
Current water supply system

- Well 1 and Well 4 currently in operation + river station (infiltration gallery) in the summer time
- The infiltration gallery shows turbidity in the winter, and becomes dry in period of extreme drought.
 - ➤ Decision to build a **new production well** as additional
 water source, and discontinue
 the infiltration gallery
- Well 5 completed in 2020 as additional water source during summer months









Well 1

Well 2 (River)

Well 4

Groundwater flow direction and Capture zone



