



Living Water Smart Doing Business Differently

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Water Management Tools

Water Balance Model
Water Conservation Calculator
Agriculture Water Demand Model
Irrigation Scheduling Calculator



Water Balance Model

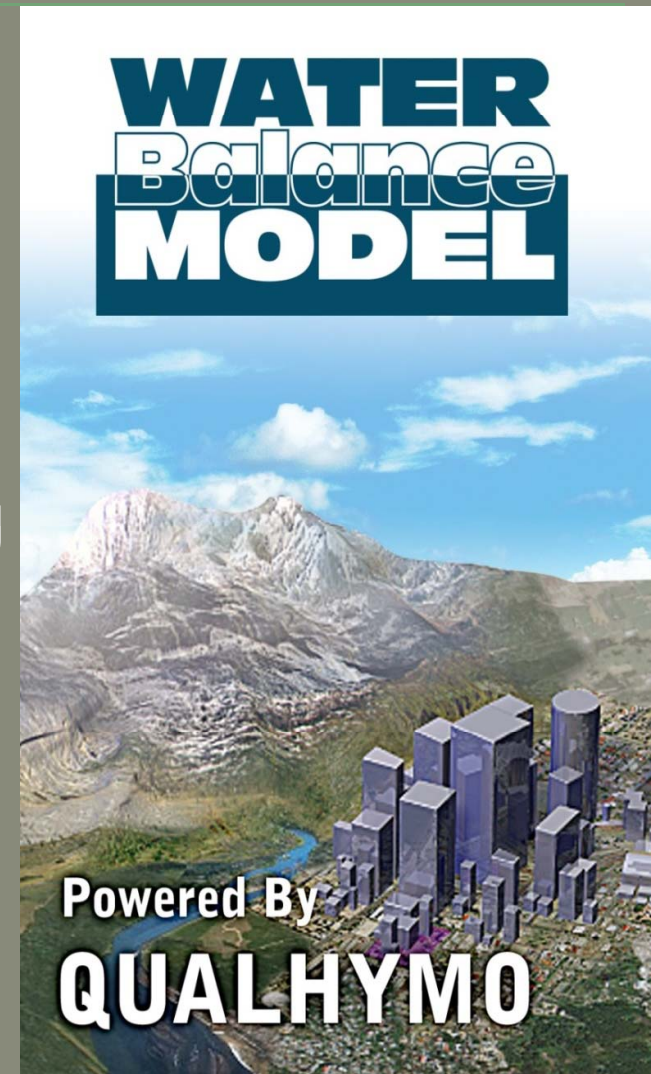
- A “made in BC” tool is the web-based Water Balance Model
- This decision support tool demonstrates how to achieve a “light hydrologic footprint”

WATER
Balance
MODEL Powered By **QUALHYMO**



Water Balance Model

The 'new Water Balance Model' integrates the Site with the Watershed and the Stream... to evaluate performance targets for greening the urban landscape and protecting watershed health





**A Key Consideration is Understanding
How Water Moves Through Soil**

Water Balance Model

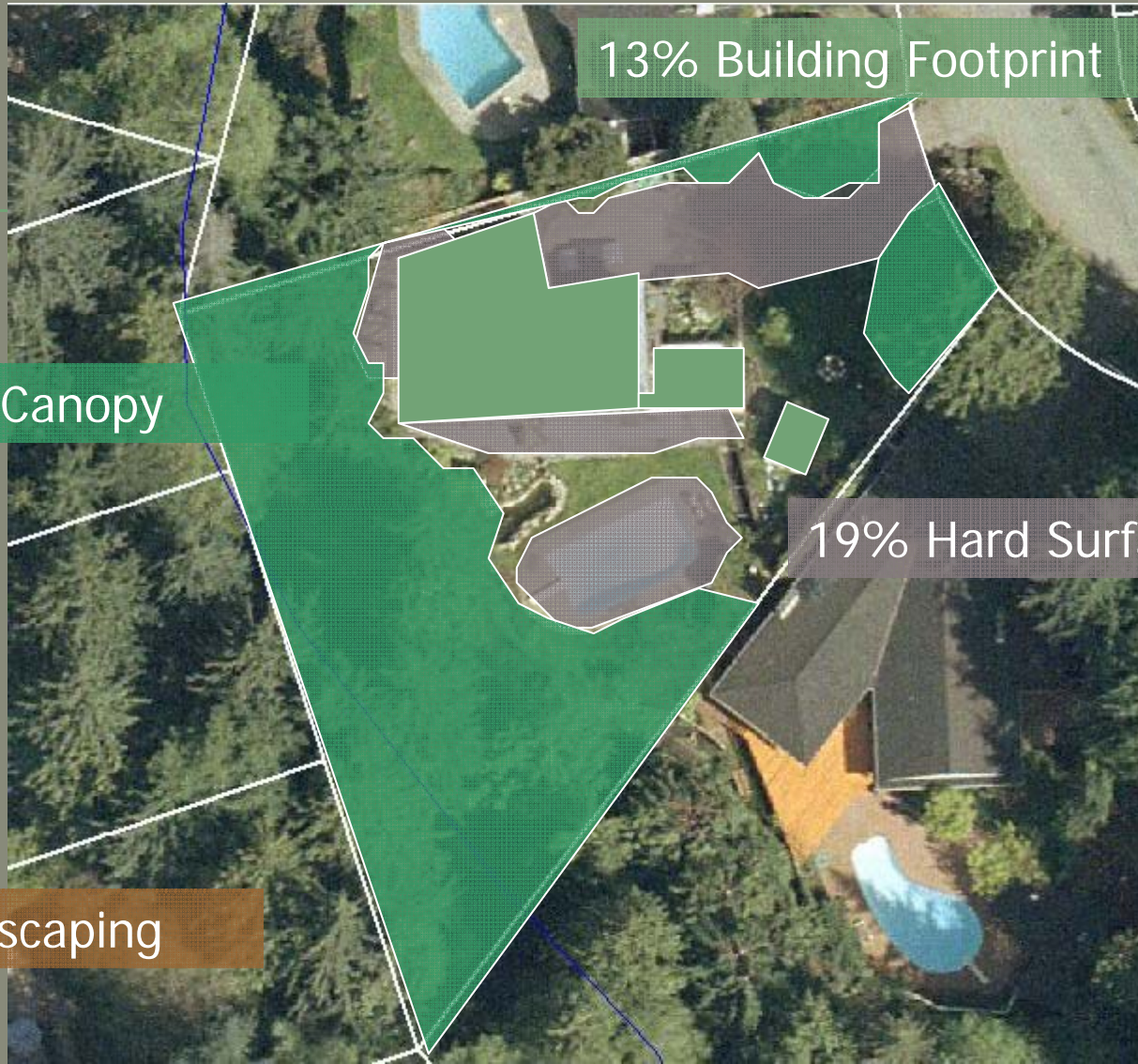
**Where and how land is developed
determines....**

How water is used

→ *sustainability of supply*

How water runs off the land

→ *sustainability of aquatic habitat*



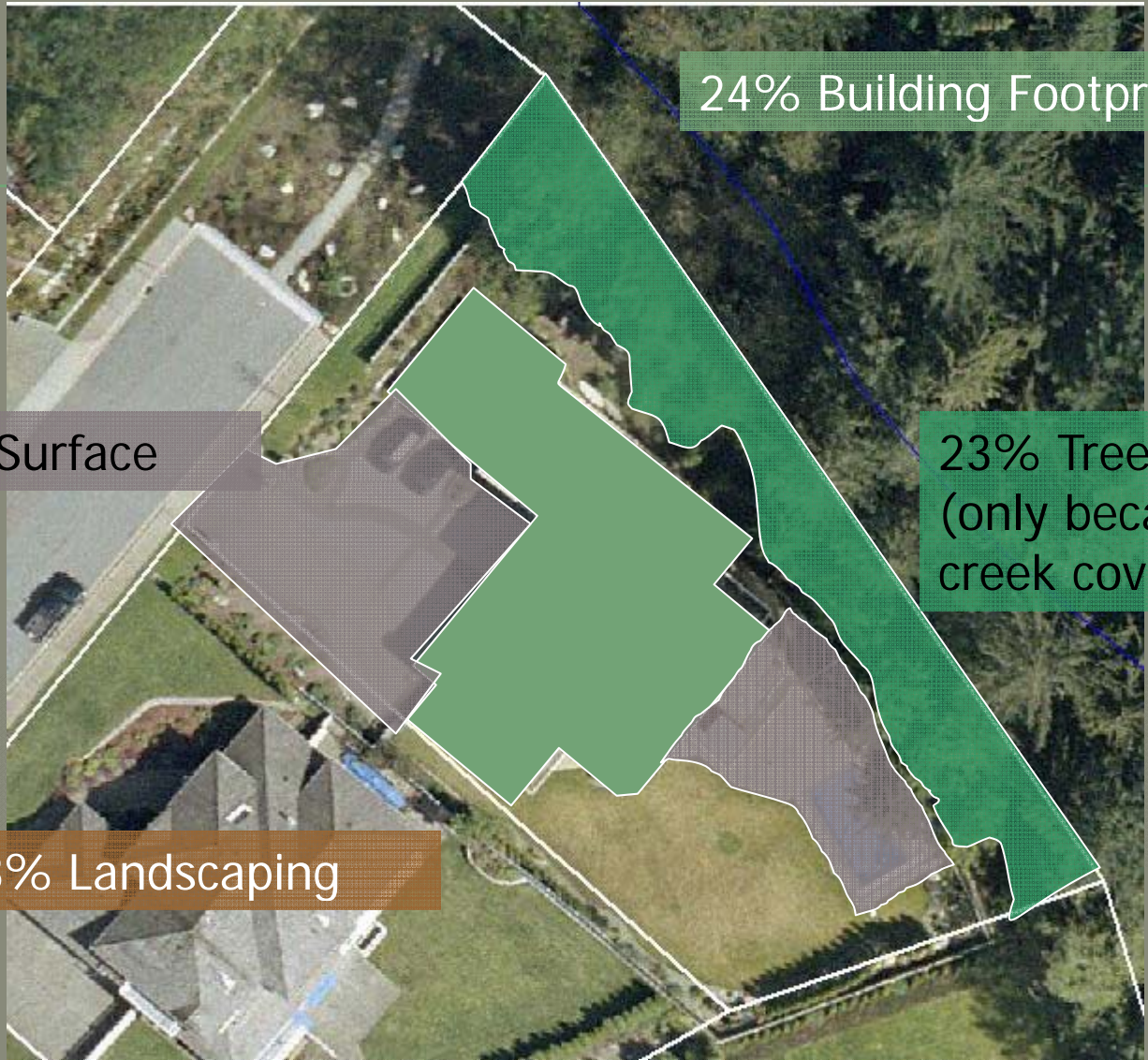
13% Building Footprint

53% Tree Canopy

19% Hard Surface

15% Landscaping

1950s site development: 32% "hard surfaces"



24% Building Footprint

25% Hard Surface

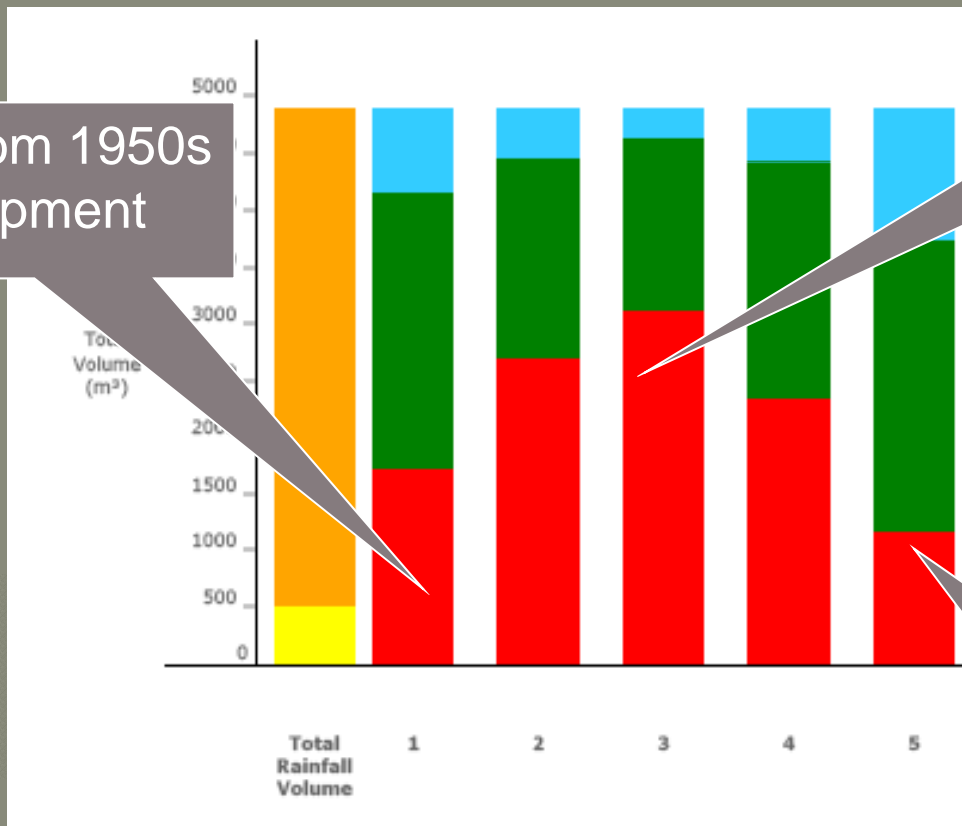
23% Tree Canopy
(only because of creek covenant!)

28% Landscaping

1990s site development: 49% "hard surfaces"

The model enables users to build a scenario comparison

Runoff from 1950s development



Runoff from 1990s development

Runoff if 1990s had Source Controls