

**RECONNECT HYDROLOGY & ECOLOGY:
“Whole-System Approach” (4 Steps) to Integration of Built & Natural Environments**

1. *WHAT is the issue?* –
“Call to Action”

2. *SO WHAT can be done?* –
“Core Building Blocks”

3. *NOW WHAT can we do?* -
“Desired Outcomes”

4. *THEN WHAT?* –
“Transferability”

Under each step, Cascading Key Messages define “What Really Matters”

Success in Solving “In Your Face” Problems Would Mean:

Integrating Natural Assets into Asset Management Relies on Understanding that:

There are Paybacks When a Community “Gets it Right”:

Restorative Development Results in Sustainable Stream Restoration:

1	Less flooding	Hydrology is the engine that powers ecological services	AVOID an unfunded and unaffordable financial liability for drainage infrastructure	Require ‘design with nature’ standards of practice for drainage and servicing of land
2	Less stream erosion	Three pathways by which rainfall reaches streams are “infrastructure assets” that provide “water balance services”	ADAPT to a changing climate to restore the water balance and reduce risks	Decrease the destructive footprint while increasing the restorative footprint
3	More streamflow when needed most	Taking action depends on what a community thinks a creekshed is worth.	REDUCE life-cycle costs for drainage infrastructure	Demonstrate what is achievable thru a restoration imperative

Below, each “Problem Statement” establishes Context & defines the Central Issues in the 4-Step Process

Recognize that it is necessary to “get it right” with respect to planning, engineering and asset management standards of practice – especially as they relate to and impact upon creekshed health and restoration - because “getting it right” would mean the sustainable and cumulative “community benefits” would then ripple through time

Acknowledge that there is a problem with current standard practices for servicing and drainage of land - and that these practices are the root cause of degraded urban streams – because “getting it wrong” results in an unfunded and unaffordable infrastructure liability that is then a financial barrier to restoration of creekshed function

Re-focus local government business processes on outcomes so that they align with provincial policy, program and regulatory framework for **Living Water Smart** - which encompasses both the *Whole-System Approach* and *Sustainable Service Delivery* - and thereby achieve desired outcomes that would have tangible community and financial benefits

Get it right, province-wide. B.C. is one of the last places on the planet where it is still possible to transcend the climate debate and lead by example. B.C. has enough remaining natural capital to protect and restore its way back to true sustainability. Make where we live better.