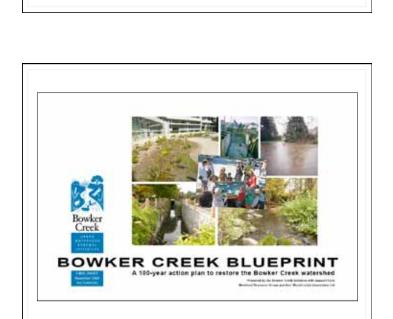


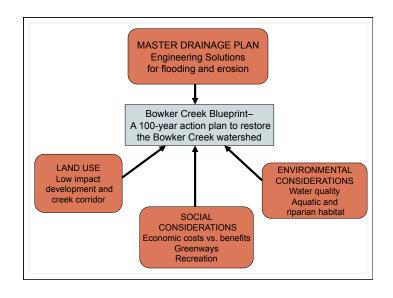


Why do we need a blueprint?

- o Details needed for municipalities to incorporate actions into their plans and budgets
- Directed change in the urban environment requires a solid plan over the long term









- Articulate a 100 year vision for Bowker Creek
- Recommend watershed management policy, planning and other stewardship actions
- Recommend sitespecific actions for each creek section
- Provide support and information to municipalities and other land stewards

Watershed Management Actions - Summary

1. Creek friendly practices wherever possible

- Low impact development approaches to manage rainwater runoff
- Consider daylighting during redevelopment or with infrastructure upgrades
- Ensure opportunities for greenways and creek restoration are considered when land is for sale or being redeveloped
- Use municipal land to demonstrate watershed friendly approaches (native plants, raingardens, creek restoration, tree planting, no pesticides)

Land Use and Soils Bowker Creek Watershed Land Uses and Soil Types District of Record Control of Rec

Low Impact Development

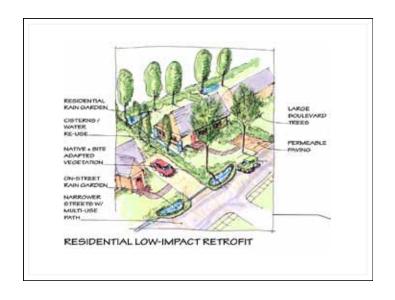
• Benefits:

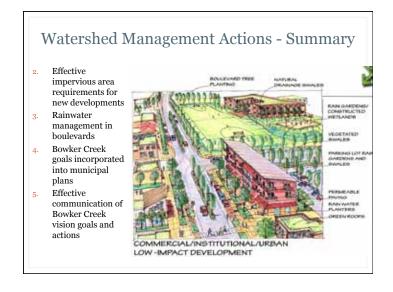
- Reduce inflow and infiltration (I&I)
- o Reduce flooding and erosion
- o Potentially negate need for new pipe infrastructure
- Improve water quality

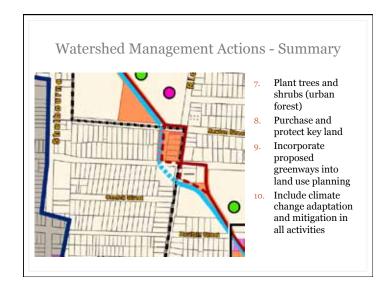
• Practice:

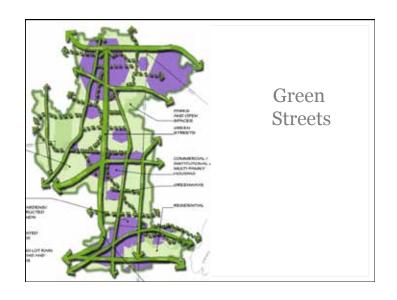
- o Rain gardens for detention/infiltration
- o Green streets (narrow, rain gardens, swales)
- Permeable paving
- o Rainwater capture/retention
- Green roofs

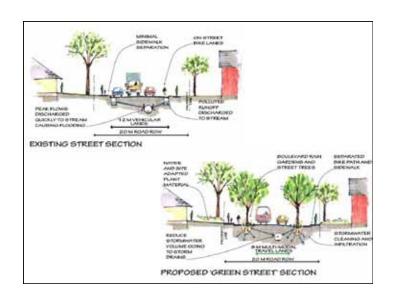
Rainwater/stormwater management feature	Appropriate land use						
	Institutional	Urban	Residential	Park/open space	Mall	Boulevard	Road
Downspout disconnect	x	х	x				
Harvesting and using roof runoff	х	х	x				
Raingardens	х	x	x	x	x	x	х
Infiltration basins / tree wells	х	х			х	х	
Detention ponds	х	x		x		x	
Pervious pavement	х	х	х	x	х	х	х
Constructed wetlands	х	Х		х	х	х	
Floodwater storage areas	х	х		x	Х	х	
Green roofs	x	х	х		х		
Wide riparian buffer zones for filtration and flood storage	х	x	х	х	x	х	х
Maintenance and restoration of natural channels with floodplains	х	x	x	х	х	x	х
Plant and maintain trees	х	х	x	x	х	x	
Prevent soil compaction	x	х	x	x	х	x	
Uncompacted topsoil (30cm+) for lawns	x	х	х	x	x	х	
Swales instead of curb and gutters						x	
Street sweeping							х
Minimize road width							х







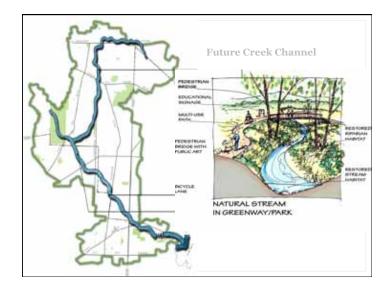


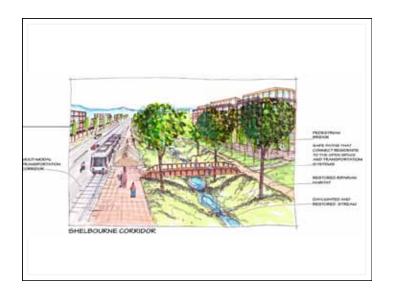


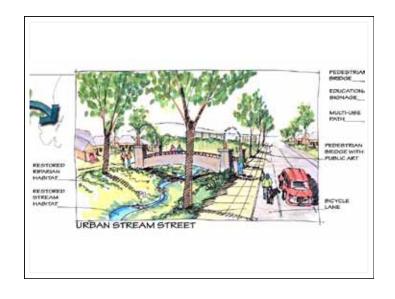


Reach Specific Actions

- Small to large efforts, varying time frames
- Operational activities and opportunistic projects
- Short term actions include invasive species removal and riparian restoration
- Opportunistic / long term actions include:
 - Channel widening/increased floodplain, bank re-sloping and/or channel re-alignment
 - · Creek daylighting
 - · Greenway along creek corridor











Top 10 Actions for Short Term

- 1. Revise municipal plans to include Bowker Creek goals and actions so we won't miss opportunities
- 2. Adopt effective impervious area requirements for new development
- 3. Remove specific invasive species that are not yet well established
- 4. Pilot project for locating and building a rain garden in each municipality
- 5. Urban Forest strategy in Oak Bay to complement those in Saanich & Victoria

Top 10 Actions for Short Term

- 6. Develop strategies to acquire key properties as they come available
- 7. Work with Oak Bay High School and Oak Bay Municipality to design and implement creek restoration at school and rec centre
- 10. Participate in Shelbourne Corridor Action Plan
- 11. Work with creek-side landowners between Trent and Pearl Streets to achieve the long term vision
- 12. Continue with restoration at Browning Park





Currents of Success

- Coordinator
- Staying on track and keeping focus
- Successful outreach efforts
- Engaging community
- Engagement of politicians



Hired a coordinator

- Cost for part time position cost shared by 3 municipalities – based on watershed area
- o Saanich 59%
- o Victoria − 23%
- o Oak Bay − 18%
- Position is established and held at CRD





Stay focused on the big picture

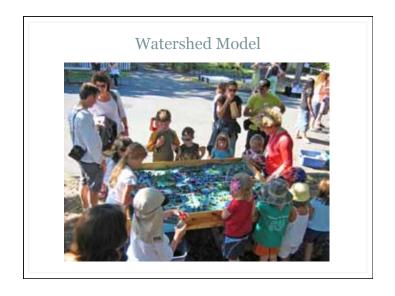
- Management plan to guide us
- Four simple goals
- How does this help us achieve goals and vision?



Outreach Efforts

- It's not fluff!
- It's more than brochures and pamphlets!
- Key to success through awareness, engagement, and community building
- Subcommittee
- Get artists involved!



















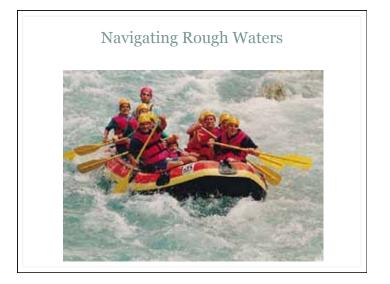












Letting go of ISMP template

- Not enough funding to complete study
- Too strategic needed specific details
- Engineering centric
- Collective knowledge of committee, previous studies and reports
- External facilitator to help pull everything together



Reconnecting with Vision

- Got stuck in the details
- Heels dug in
- External Facilitator
- O Does everyone still believe in this vision?
- What is working/not working?
- Frank discussions about where people were getting frustrated



Partner Agreements

- Outlined for all members:
 - Roles
 - Constraints
 - What members would try to do
- Better understanding of what all partners were up against
- New commitment to look at how we could support each other to achieve the plan



Land Acquisition

- Acquisition through purchase or redevelopment
- Required in certain areas to achieve Watershed Management Plan Goals
- Long term, opportunistic process
- Needs to be incorporated into long term plans
- Confidential memo will be provided to municipalities regarding key addresses for long term acquisition



Articulating a time horizon

- Lots of big ticket items
- Staff uncomfortable about trying to steer through councils
- 100 years into title
- Staff instantly more comfortable
- Easy for councils to endorse



Questions???

