



# The University of British Columbia Campus & Community Planning

## **Sustainability Street at UBC: Beyond the Moment**



# 1. Overview

- Green Streets and Green Buildings
- Energy and water – our life blood
- Sustainability Street –  
ecological/social and financially  
accountable

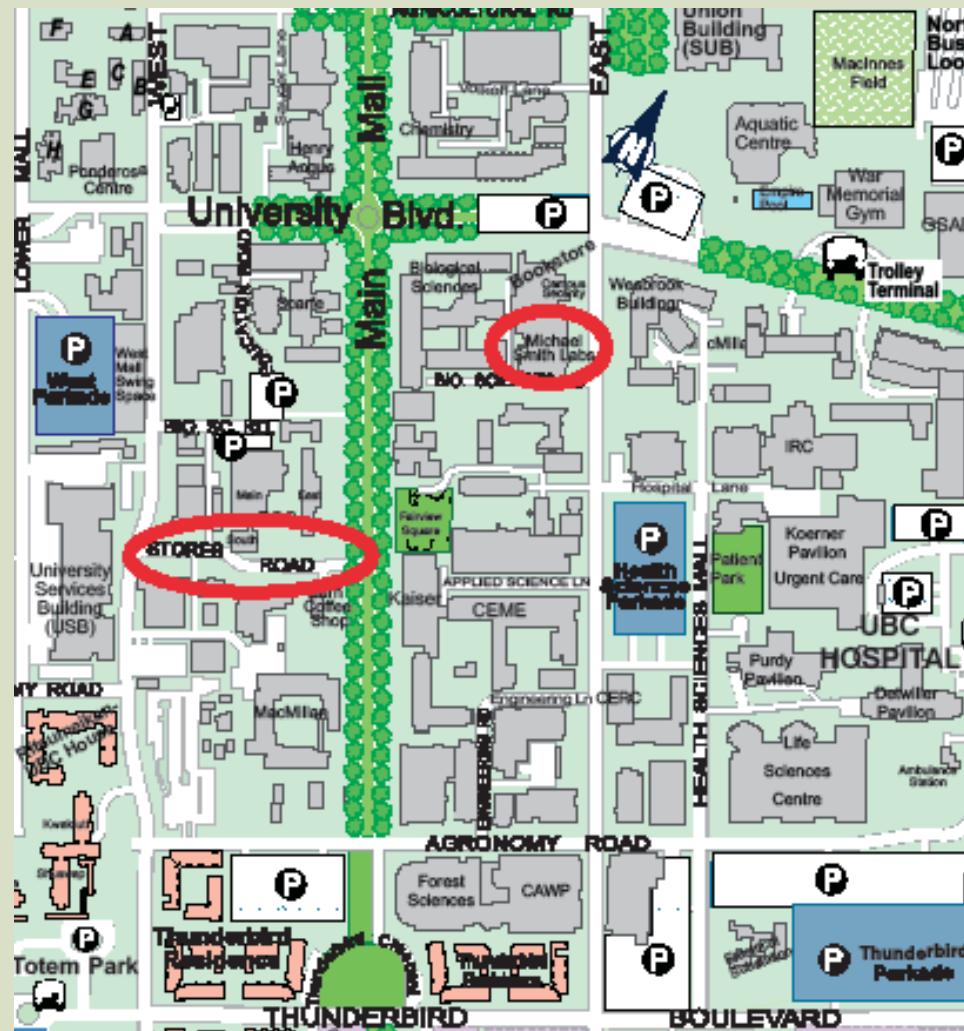


## 2. Goals

- Reduce energy, recycle water, paper, equipment, re-use materials
- Ecological – diverse landscape and plant life, daylight storm water
- Social – place making for street users, student social space
- Full cost accounting – to be posted on web  
([www.sustain.ubc.ca/sustainabilitystreet](http://www.sustain.ubc.ca/sustainabilitystreet))



# 3. Map





## 4. Stores Road Early Spring 2006





## 5. Where We Came From

- Vehicle centric road infrastructure-no pedestrian facilities
- No social space, no sense of place or neighbourhood
- Conventional storm drainage
- Sanitary waste piped off campus
- Paper waste recycling only
- Fossil fuelled heating and cooling of buildings



## 6. Stores Road Today





## 7. Where We Are Right Now

- Reduced road and parking. Pedestrian facilities to accessible standards
- Green spaces, gathering places and quiet study/relaxing landscape
- All road areas and low rise building storm water discharge to bio-filtering creek
- Re use of granite demolition waste, fly-ash in concrete, plants from campus development sites
- Barn Coffee shop converted to re usable cutlery/crockery-weaned from plastic/Styrofoam disposables
- Deep wells sunk to aquifer for “closed loop” groundwater/geothermal HVAC





## 9. Ideal Outdoor Social/Study Space





# 10. Daylighted Storm Water Creek





# 11. Granite Re-use for Benches and Defining Pedestrian Space



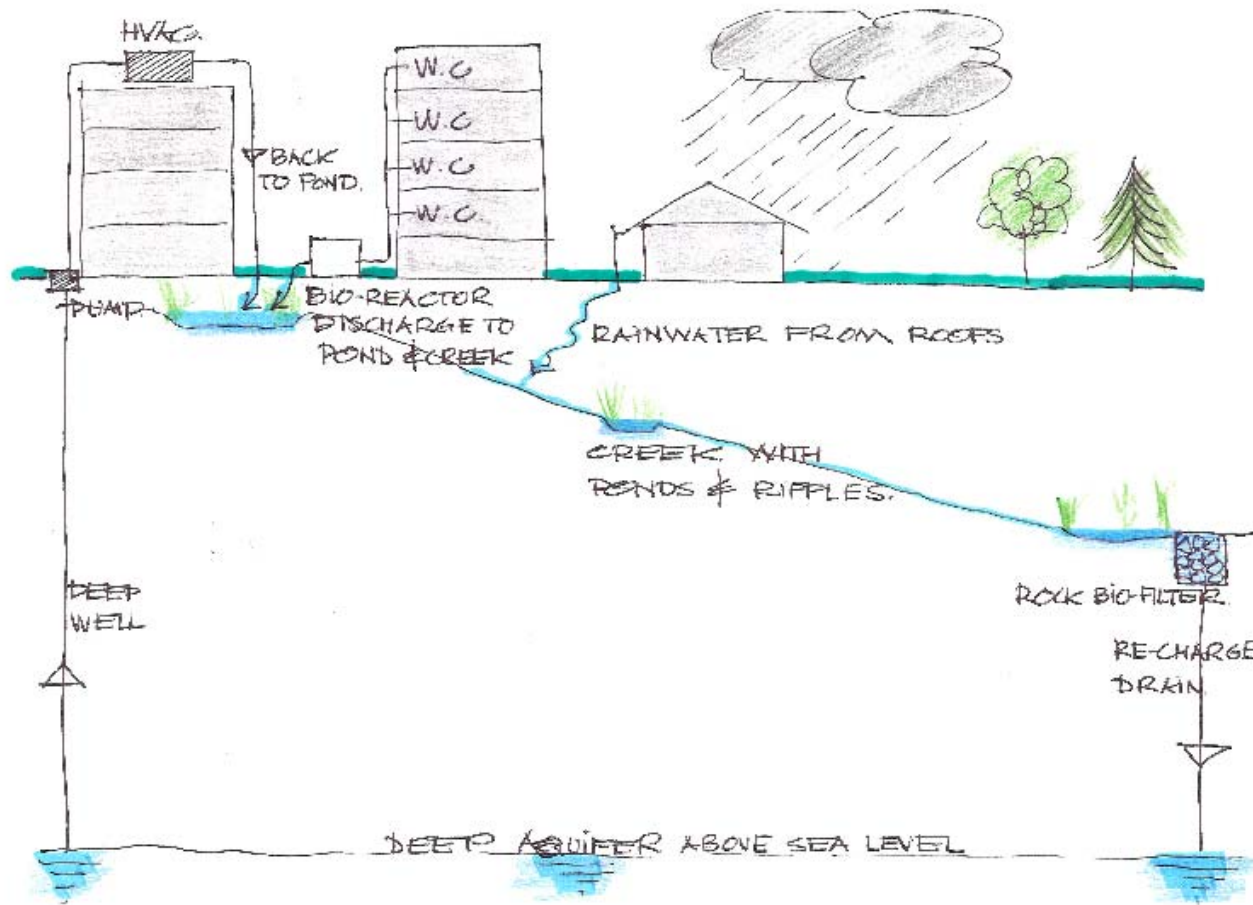


## 12. Where We Are Going

- Ground source geothermal for buildings
- Sanitary waste treatment on site and discharge to bio-filtering creek
- Research on multiple re use of closed loop ground water and pharmaceutical accumulations
- Research on pesticide free landscape planting
- E-Waste system for recycling of electronic lab equipment
- Expansion of social and teaching space at brow of hill plaza
- Small community sized bio-diesel refueling facility
- Outpost of Hydrogen Highway refueling station for UBC fleet vehicles.



# 13. Schematic





## 14. Communications

- Web site – evolution
- Embedded words – association with sustainability
- Banners – Q and A
- Poster boards
- Telling the story to peers
- And anyone who will listen
- Questions?