Environmental Impact Assessment for Seymour-Capilano Filtration Plant

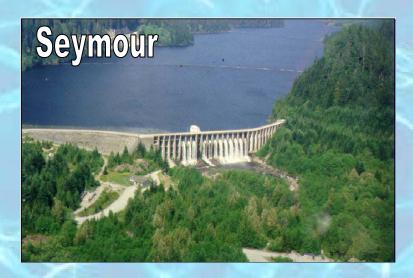
Mark Ferguson
Senior Engineer
Water Treatment Engineering
Greater Vancouver Regional District

Greater Vancouver Regional District

- 21 municipalities and 1 electoral area
- serves 2 million
- Regional utility services: water, solid waste management, sewerage, and drainage
- wholesaler of water to the region

Source Reservoirs







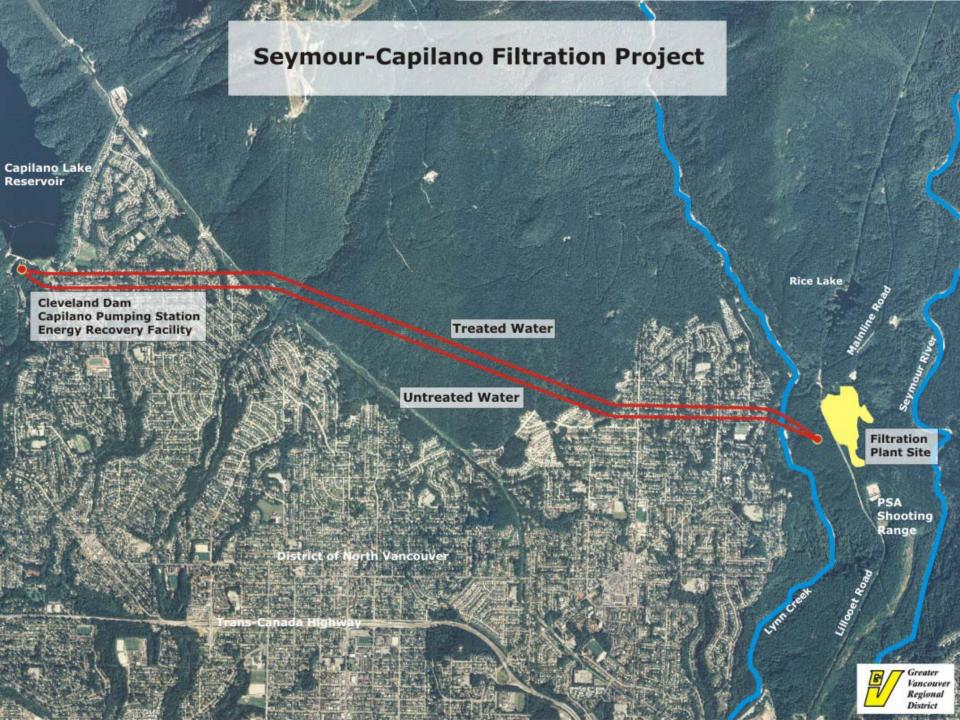


Site Selection and Project Development

"Sustainable Approach?"



- Triple Bottom Line
 - Environmental
 - Social
 - Economic/Technical

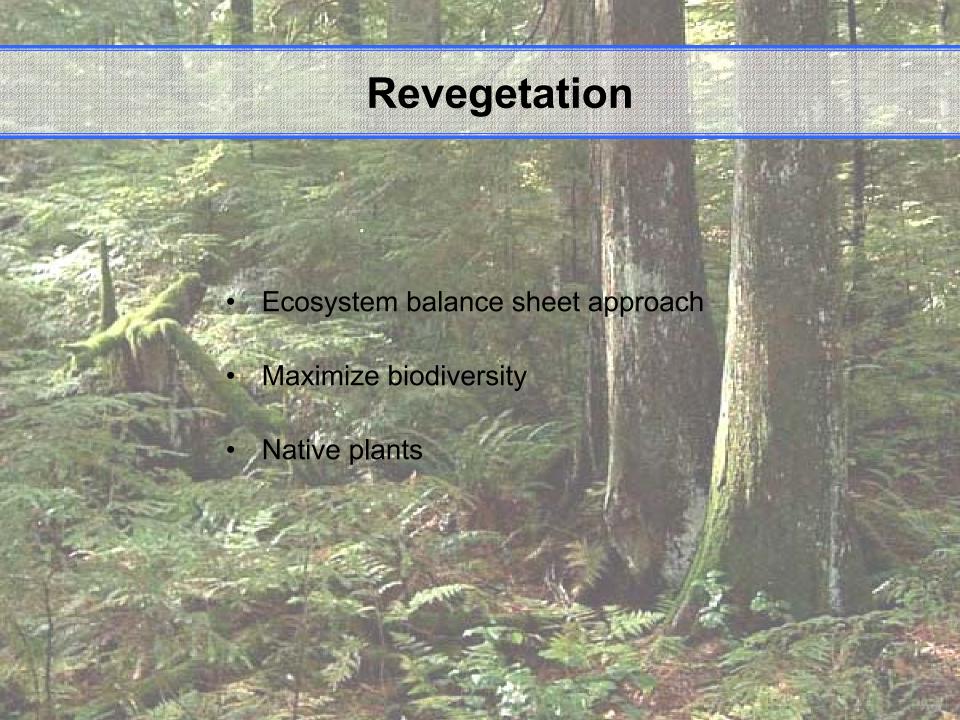






- Tree stand and ecological assessments
- Wildlife and archaeological assessments
- Minimize impact
- No net change in stormwater regimes





Communications and Public Involvement

- Specialty meetings
- Community association presentations
- Municipal staff and the Community Monitoring & Advisory Committee (CMAC)
- Public consultation is ongoing

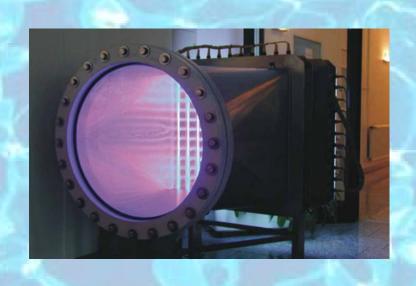
Public Mitigation

- Vehicle emissions and safety
 - All trucks subject to inspections
- Noise
 - Barriers constructed
- New 10 km recreational trail

Sustainable Building and Design Technologies



Water Treatment Processes



- 98% Recycling Backwash
- UV light for disinfection
- No gas chlorine
- Reusing solids residuals

Geothermal Heat Recovery System

- Gas will not be piped to facility
- Primary source of energy for the SCFP

