

Sustainability

Eclipse is Canada's greenest hot springs and spa facility. Our approach to energy efficiency and sustainability is achieved through true geo-thermal heating and energy-efficient design strategies, including super-green building design, grey water separation and water conservation, heat recovery heat pumps, garbage reduction and re-use/recycling, and repurposing measures. The resort's woodlot feeds a backup GARN high-efficient wood burner, providing emergency backup heating.

1. The facility was designed with energy efficiency and sustainability strategies, including:

- ✓ Thermal mass heat storage via 8" to 12" thick concrete floors
- ✓ Super-high insulation, ranging from R40 to R110
- ✓ Triple and quad pane windows, with over 80% of glazing being south-facing
- ✓ True geothermal (not geo-exchange) heating system with in-floor heat and wood boiler backup
- ✓ Heat pumps (air-to-air space heating, air-to-water room cooling and ceramic lounge heating, water-to-water in-floor & hot water tank warming, and heat pump ventless dryers in the laundry)
- ✓ 100% LED lighting to minimize electrical use.
- ✓ Longevity of buildings and pools is estimated at 100 years plus for buildings and 200 years plus for pools, patios, and foundations.

2. Conservation measures for water and sewer include:

- ✓ Reverse osmosis purified drinking water, timed showers, low flush toilets, motion-activated and aerated sinks and urinals
- ✓ Water saving appliances, janitorial supplies, carefully selected to maximise use of safe and green cleaners
- ✓ Separation of grey from black water, black water triple filtered prior to septic field discharge
- ✓ Clean water is discharged from the evaporation pond into the Takhini River

3. Garbage reduction measures include:

- ✓ Reusable drinking water cups and biodegradable containers for take-out
- ✓ Refillable containers for liquid soaps, shampoo, conditioner, and moisturizers
- ✓ All organics from the kitchen and café are taken to the city compost
- ✓ Recycling to capture all recyclables and returnable items
- ✓ Eligible plastics are forwarded to Yukon Plastics for transformation into retail goods
- ✓ Office systems run on minimal paper use, using electronic and reusable forms

4. Local materials and contractors

- ✓ Eclipse was constructed primarily by local contractors
- ✓ Extensive use of local gravel pit materials (sand, gravel, clean rock, small and large boulders) is used to help create the unique natural-style environment

5. Commitment to healthy food and local producers:

- ✓ Over a half dozen local suppliers to provide meats, berries, flour, beer, and teas
- ✓ Many organic ingredients, no preservatives or additives
- ✓ Most food is prepared from scratch
- ✓ All seafood purchased is sustainable seafood with the "ocean-wise" label

- ✓ Listing of all ingredients available to customers to assist with food sensitivities and allergies

6. Care of the land

- ✓ Sustainable logging of resort lands to ensure a continued “wilderness feel”, fire-smarting provides wood for Eclipse and others at the resort
- ✓ Use of native species in landscaping and decorative garden beds to minimize fertilizer use and requirement for watering
- ✓ Ongoing work to remove invasive species such as Sweet Clover, Creeping Thistle, and Narrow-leaved Hawksbeard
- ✓ Use of special outdoor lighting to keep the sky dark and avoid light pollution

7. Care for Staff

- ✓ Living wages for staff with medical plans and generous vacation leave

8. EV charging stations for staff and clients:

- ✓ Two EV staff chargers and four EV client chargers are currently being installed

9. Research Projects we support or have been involved in include:

- ✓ Private sector sponsorship by Takhini Hot Springs Ltd. of the Yukon Geothermal Favourability Study
- ✓ Study on long-term geothermal warming effects on carbon in subarctic forest soils. Thünen Institute of Climate-Smart Agriculture, Braunschweig, Germany
- ✓ University of Laval study: Assessment of thermos-hydraulic properties of rock samples near Takhini Hot springs, National Institute for Scientific Research
- ✓ Hospitality internship with Quebec University