



**British Columbia May 28, 2008**

BI Pure Water (Canada) Inc. has designed and manufactured an energy efficient water treatment plant for the Town of Ymir in the Central Kootenay Regional District (RDCK) in British Columbia. Ymir was known as a booming mining town in the late 1800's.

This "green" facility is one of the first to employ an analysis and design based on Ymir and RDCK's goal – to reduce our carbon footprint and ensure that we are conserving energy where possible. The water treatment plant was assembled and tested at the BI Pure Water facility in Surrey, BC.



The water treatment process includes dual booster pumps, self-cleaning media filters, cartridge filters, ultraviolet primary disinfection and residual chlorination.

The following energy saving items were included in this plant:

- Minimum R40 structural insulated panels for ceiling
- Minimum R20 structural insulated panels for walls
- No windows for security and energy savings
- Insulated door
- Electrical heat with thermostat set to maximum 15 degrees C in winter
- Air exchanger for summer cooling
- Energy efficient lighting – T5 Fluorescents
- Interior lighting to be on motion detectors
- Exterior lights to operate on solar cells
- Gravity feed to the raw water pumps

- Two 5 HP raw water pumps for seasonal flows rather than one larger pump
- VFDs installed for flow control
- High efficiency electrical motors
- Schedule 80 PVC piping rather than stainless steel
- Aluminum checkerplate flooring rather than less durable vinyl.



Energy efficient Structural Insulated Panels mounted on a 12 x 36 foot steel base.

RDCK staff worked with BI Pure Water to design the plant within the budget and the energy efficiency guidelines. The Construction Permit was granted after detailed submittals to BC Interior Health. Don Nash, P.Eng. Manager of Engineering and Environmental Services for the RDCK commented “By working closely with BI Pure Water, we have designed and commissioned a leading-edge water treatment plant.”

BI Pure Water specializes in reviewing water quality test results and prescribing the most cost-effective solution. BIPW Engineers pilot, design, manufacture, install, start-up and commission package water treatment plants. The operators are then trained and the plants can be serviced on a regular basis. BIPW focuses on small and medium-sized water treatment plants to meet the needs of Federal, Provincial and Municipal Governments, Industrial Process, Private Water Systems, Resorts & First Nations.

BI Pure Water package water treatment plants are cost-effective because:

- The water treatment plants are custom Engineered to a specific water analysis.
- The plant can be built in the Port Kell’s factory where the trained staff work.
- Components & parts are readily available.
- The water treatment plant can be leak and flow tested.
- The PLC can be operated and debugged before shipping.

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