



*Custom Engineered
Treatment Systems*

*Saving costs with
factory-built
treatment systems*



*Package Water Treatment Plants
Baker Lake, Nunavut, and
award winning "green" plant for
Ymir in the Kootenays, BC*

Award-winning design; reliable, cost effective package treatment plants

BI Pure Water's pre-assembled water treatment plants in containers are cost-effective in systems treating between 10,000 and 3 million Liters per day.

We use a variety of treatment technologies, often within one system, for optimal water quality and system efficiency. Each system meets or exceeds water quality regulations, and discriminating customer goals.

Our treatment plants are at work in hard-to-service areas such as northern work camps and remote native communities.

We design for challenging water sources such as high turbidity/silt in rivers and hardness in prairie well water. We have developed turn-key mineral removal systems for agriculture and industry, and waste water treatment systems for mines and industrial processes.

Among our customers are municipal, provincial and federal organizations such as BC, Alberta, Saskatchewan, Manitoba, Nunavut, Yukon, NWT, Agriculture Canada, Parks Canada, and the Canadian Coast Guard.

Package Water Treatment Plants are;

- Easy and quick to install, integrate into existing facilities, and start up
- Pre-testing minimizes initial operating problems
- Built-in automation and remote control options minimize the need for operator supervision and intervention

Potable Water • Process Water • Wastewater Treatment • Desalination for brackish water and seawater • Water Recycling



Self cleaning disc filters extend the life of succeeding treatment units



We use reverse osmosis for a variety of difficult water conditions such as salt water



We use high performing filtration media such as GreensandPlus for removing iron and manganese in hard water



Ultrafiltration, a membrane filtration process, is ideal for reducing water turbidity without chemicals



Package plants are shipped complete to remote industrial, mine or work camps. They can be moved to other locations, providing local potable water treatment on demand that exceeds Canadian and USEPA regulations.



A small RO wastewater treatment plant recycles water for a remote northern camp. Water systems are designed to be low maintenance and cost effective to install, with a remote monitoring and trending system.



Ultrafiltration helped a Thompson river side community deal with fluctuating turbidity levels, especially during spring freshet, and riverborne contaminants. Years of water quality problems were solved - with less ongoing maintenance cost.

**Taloyoak, Nunavut
Remote Water Treatment Plant**

- **Minimal site impact**
- **Sustainable solar and wind are the primary energy sources**
- **Extraordinary insulation including heated intake lines**
- **Training of local operators and remote monitoring**



Ion exchange units for water softening



Membrane bioreactors for sewage and waste treatment



UV units work to reduce chlorine and ozone usage



Our chlorination units are reliable and easy to use



Alberta power utility, Transalta's coal power plants were provided with state-of-the-art drinking water treatment plant upgrades meeting the highest standards of Alberta water regulations.



This award-winning small UV system for Van West Water Utility Corp. of Whistler has a greatly reduced chlorine requirement. The UV system has remote monitoring for the offsite plant operator.



For Saltspring's public pool, a UV unit in combination with chlorination destroys chloramines and reduces the need for chemicals. Swimmers are happier.



BC & North American award winning design & manufacture

bipurewater.com





"Concept to operation" build process



Experts at:
Controls and Automation

Pumping Systems

Chemical Dosing Systems

Instrumentation



Selected Recent Projects

Industrial and Wastewater Treatment

2015	Horizon North Camps	RO waste water treatment
2014	Kemetco Manganese	Mine waste treatment system
2013	TransAlta	RO/ultrafiltration
2013	ECA Solutions, BC	Chlorine Systems
2004-15	IPAC Chemicals	Pumping Systems

Municipal Water Treatment

2015	Ladysmith, BC	Reclaimed water filtration system
2014	Kugaaruk, NU	UV/filtration water treatment plant
2013	City of Vancouver, BC	UV pool system
2012	Baker Lake, NU	UV/filtration PWTP
	Port Clements, BC	Package water treatment plant (PWTP)
	Hudson's Hope, BC	PWTP
	Haines Junction, YK	PWTP

First Nations Water Treatment

2014	Lytton/Nickeyeah, BC	UV/filtration PWTP upgrade
2010	Liard First Nation, YK	Greensand PWTP
	Little Sask First Nation	Membrane Water Treatment

Resort and Private Water Systems

2015	Myrtle Pond, Powell R., BC	filtration PWTP
2013	Black Tusk Village, BC	PWTP
2011	Birkenhead Lake Est, BC	chlorination/water storage PWTP
	Rivershore Estates, BC	Ultrafiltration PWTP
2010	Raymond Shores, AB	Media Filtration PWTP

Remote Work Sites

2014	Canadian Natural Resources	Greensand PWTP
2012	Laricina Energy, AB	PWTP
	Ausenco Western Coal	PWTP
	Aramark Canada, BC	Potable Water Storage
	Devon Energy, AB	PWTP
2011	Mosaic Potash, SK	PWTP

Food & Agriculture Disinfection Systems

2014	Norwood Packaging	Water purification
2011	Peel Region, Ont	Chlorination and Bottling PT
	BC Ministry of Forests	pH Correction system
	UBC Biosciences	Dechlorination
2010	ATD Waste Systems	Agri Waste Treatment
2009	Agri-Food Canada	PWTP



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