



One Four, Alberta June, 2009

BI Pure Water (Canada) Inc. has completed a reverse osmosis water treatment plant for the Agricultural Research Center at One Four, Alberta. Located in southeastern Alberta, close to the US border, this Government of Canada facility draws water from a well.

The water has very high TDS (Total Dissolved Solids) levels, greater than 2300 mg/L, where the recommended maximum level is 500 mg/L (per the Canadian Drinking Water Guidelines). Reverse osmosis was the method selected to treat the water. Further protection of the drinking water is achieved by injection of a chlorine solution.



Interior of Water Treatment Plant

Left to Right: Electrical Panel, Control Panel, Reverse Osmosis Skid, Pressure Tank, Accu-tab Chlorinator

Operators can control the plant using either the touch screen on the control panel or hardwired switches. System monitoring and alarms are provided for both local and remote access through the BI Pure Water "Remote Monitoring and Trending System".

The ability to view and control the system remotely is particularly beneficial to the customer. It allows the customer to access the plant from their main offices in Lethbridge, Alberta, 180 km away. It also allows BI Pure Water staff to assist operators in the diagnosis of any potential problems. This translates to improved response time and reduced service costs.

The plant was commissioned in June 2009. Since the plant has been in operation, the average TDS value has been reduced to 25 mg/L, well below the maximum, and a significant improvement in water quality.



Completed Treatment Plant

BI Pure Water (BIPW) specializes in reviewing water quality test results, analyzing customer needs and then 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, Mining Camps, Private Water Systems, Resorts and First Nations communities.

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

- The water treatment plants are custom engineered to a specific water analysis and budget
- The plant can be built in the Port Kells factory where the trained staff work.
- Components and parts are readily available.
- The completed water treatment plant is leak- and flow – tested at the factory.
- The PLC is operated and debugged before shipping.

The benefits of using BI Pure Water's package plants are:

- Higher customer satisfaction due to one-stop shopping.
- Years of engineering experience embedded in the design.
- No "passing the buck" to subcontractors.
- Faster installation and start-up on site.
- Lower total cost.

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