



# Hiawatha First Nation Water Treatment Plant

**BI Pure Water**

Trusted Water Treatment Plant Manufacturer For 30 Years



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“Water is life, and we must all work together for the protection of the waters.”

— *Chief Laurie Carr, Hiawatha First Nation*

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# 1. Executive Summary



## 1.1 Purpose of the Report

This report provides a comprehensive overview of the water quality challenges faced by the **Hiawatha First Nation community** and how **BI Pure Water Technology's** modular water treatment system resolved long-standing issues with iron, turbidity, hardness, and pathogens in the groundwater supply.

It also outlines why the modular approach is the most effective, sustainable, and regulatory-compliant solution for small and remote communities.

## 1.2 Overview of the Water Quality Challenge

The community's three groundwater wells, classified as Groundwater Under the Direct Influence (GUDI) of surface water, consistently failed to meet drinking water standards for turbidity, hardness, color, iron, and microbiological safety.

## 1.3 Summary of BI Pure Water' Solution

**BI Pure Water** implemented a modular treatment system combining **Oxidation**, **Greensand Filtration**, **UV disinfection**, and **Chlorination** to produce water that meets or exceeds Canadian regulation for making drinking water.

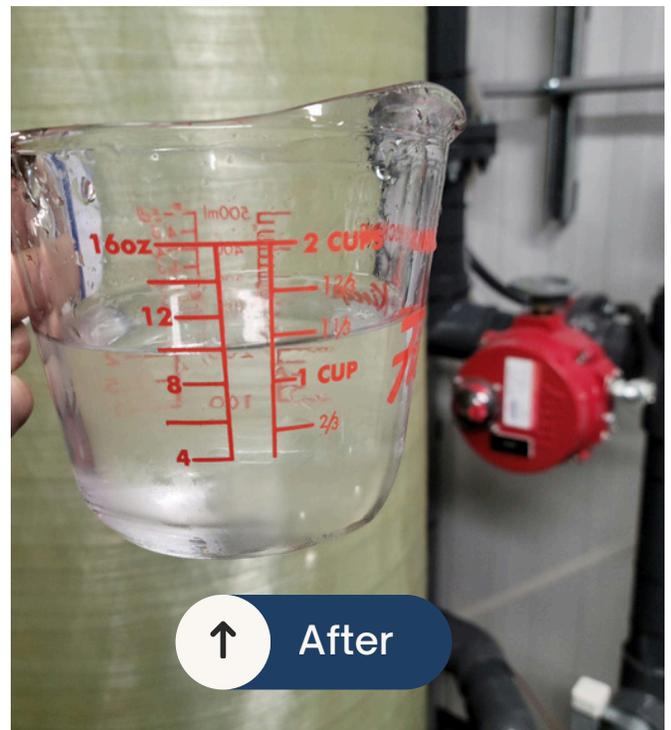
## 1.4 Outcomes and Achievements

- **Achieved** full regulatory compliance with all primary and secondary drinking water standards.
- **Removed** iron and other contaminants related to aesthetic parameters, producing high-quality water.
- **Eliminated** pathogenic risks, restoring safe drinking water to the community after more than 30 years under a boil-water advisory.
- **Equipped** operators with a fully automated, user-friendly **BI Pure Water water treatment plant** engineered for reliability, efficiency, and long-term resilience.
- **Demonstrated** the success of BI Pure Water's modular treatment approach, providing a scalable, sustainable solution that can be replicated in other communities facing similar water quality challenges.

## Water Results Before & After BI Pure Water Treatment Process



Before treatment, the water was discolored and cloudy due to high iron and turbidity; after treatment, it is crystal clear and safe for drinking—showcasing the effectiveness of **BI Pure Water's** modular treatment system.



# 2. Advantages of BI Pure Water's Water Treatment Plants

## Proven Success in Indigenous Communities Over 30 Years

**BI Pure Water** has a long track record of working directly with First Nation Communities across Canada to design and deliver safe, sustainable, and regulatory-compliant water systems especially in remote locations.

We understand that every community is unique — in geography, culture, and water source — and our solutions are tailored to meet with our client's needs, traditions, and long-term self-reliance.

## Modular Design Built for Remote Locations

Our modular water treatment plants are **factory-built, pre-tested, and ready to run** — ideal for remote or northern communities where construction logistics and seasonal access can be challenging.

- Rapid Commissioning
- Compact and Fully Enclosed Units
- Scalable Water Treatment Plants

## Reliable, Operator-Friendly Technology

First Nations communities often face challenges with limited local technical resources — that's why BI Pure Water are built for simplicity and reliability.

- Fully Automated Controls & Process Management
- Remote monitoring capabilities
- Hands-on training program during commissioning
- Continued technical support available
- Available **Water Parts and Service**

Side View of the Water Treatment Plant



# 3. Message from Hiawatha First Nation Leadership



— Chief Laurie Carr, Hiawatha First Nation

“This achievement brings us great joy and marks a significant milestone in our ongoing commitment to the well-being of our citizens. **Water is life**, and we must all work together for the protection of the waters... We borrow these lands and waters from our grandchildren, and **we must look after and respect these gifts and responsibilities** we have been given.”



# 4. Conclusion

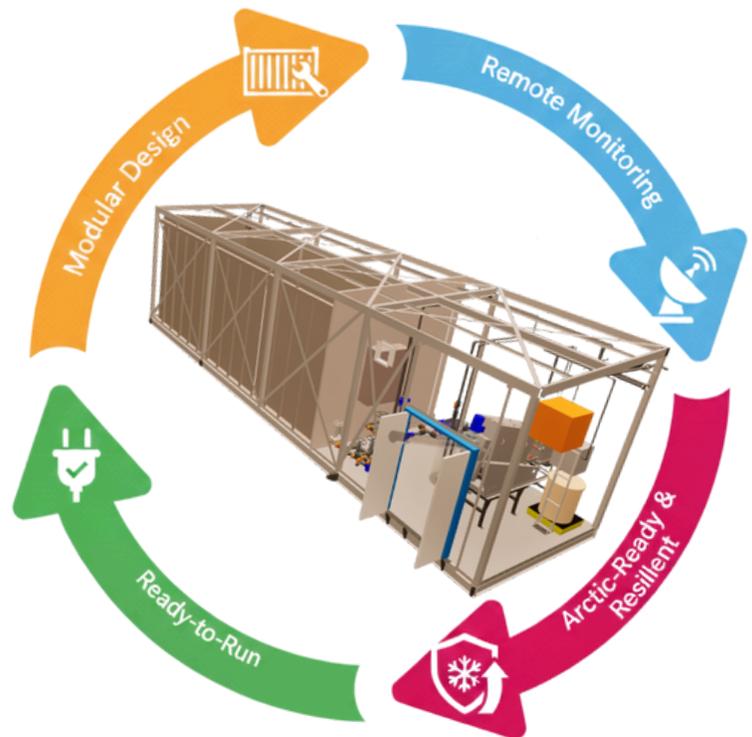
The Hiawatha First Nation Water Treatment Plant project stands as proof that when innovation meets partnership, lasting change follows. BI Pure Water's modular water & wastewater treatment approach has been fully tested, proven in operation, and delivering safe, compliant, and sustainable drinking water for generations to come.

## Next Steps

BI Pure Water continues to:

- Support operators through training and remote expertise.
- Ensure ongoing performance and compliance.
- Partner with more First Nation communities to deliver lasting water solutions.

Visit our website to download more detailed reports and case studies: [www.bipurewater.com](http://www.bipurewater.com)



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## For Cost-Efficient Water Solutions, Contact BI Pure Water !