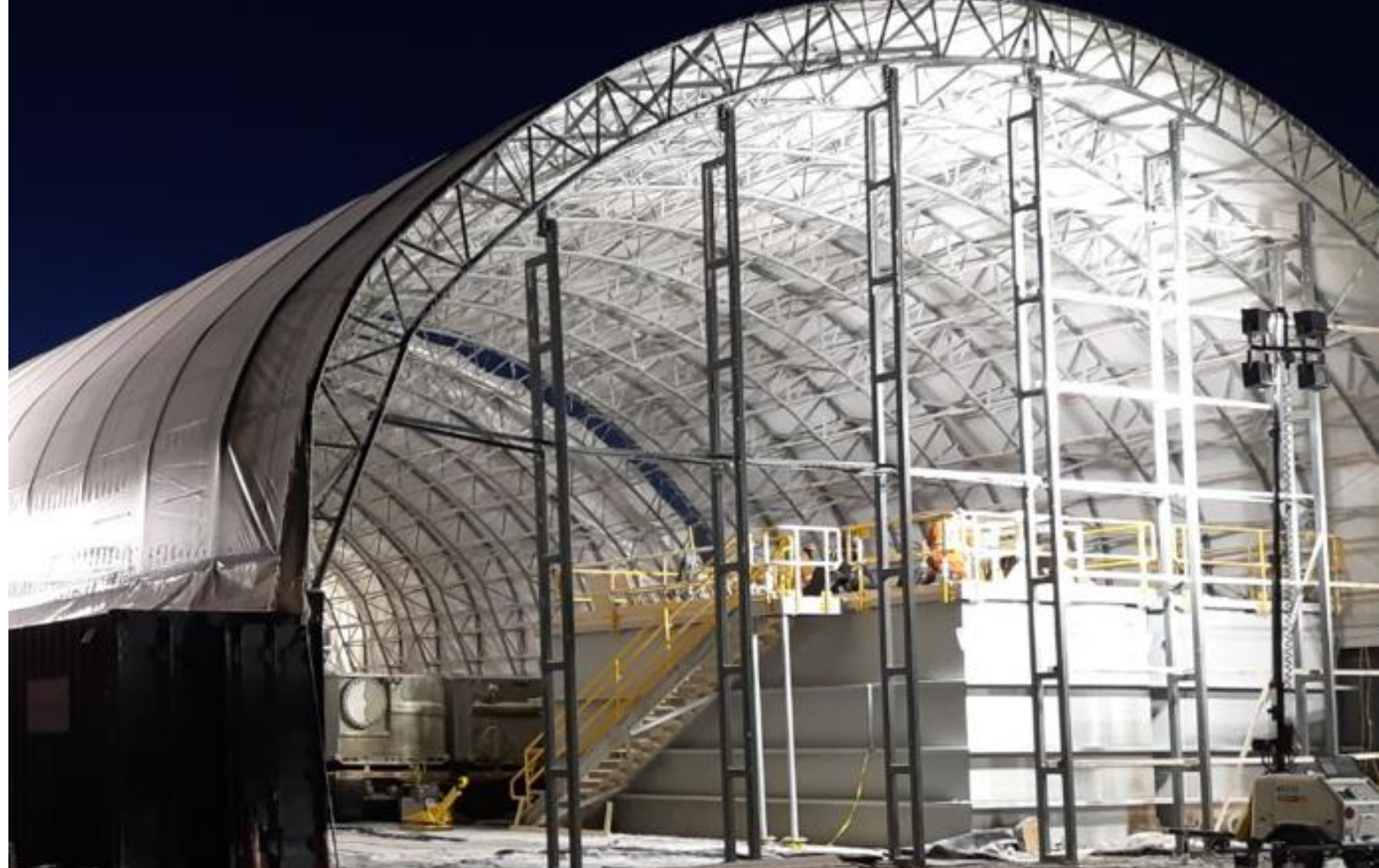




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In response to provincial regulations for mine water runoff (Directive 019), the client required a temporary water treatment system to ensure that effluent from their operating iron ore mine complex was in accordance with the newly implemented regulations.



**TEMPORARY MINEWATER TREATMENT FOR  
REMOTE SITE CANADIAN MINE MEETS DIRECTIVE  
019 REGULATIONS WITH TURNKEY INSTALLATION**

Installation of the water treatment system, located near the Québec and Labrador border, was accomplished during the cold Canadian winter.

The system was intended to be used temporarily for two years before moving to another site owned by the same mining company.



**Winter  
installation**



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The design, implementation, and execution of the project were done by AXOR (now FNX-INNOV), and the process support and major equipment were provided by WesTech in a compressed timeline

Just seven months after receipt of the purchase order, the facility was able to produce compliant water.

**Installed in 7 months**





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The mine water treatment system includes four WesTech RapiSand™ units, four frac tanks with mixers, and four shop-assembled thickeners.

The RapiSand is a high rate clarification technology that utilizes ballasted flocculation to minimize footprint and deliver improved performance.

**High rate  
clarification**



The equipment is housed under a fabric dome to accommodate the temporary installation, and the units operate in stop and go mode – 12 hours on and 12 hours off.



Deployed  
inside a dome

## NET CAPACITY

Maximum 2,400 m<sup>3</sup>/h (10,000 gpm);  
Incoming TSS Range of 15 to 40  
ppm

## RESULTS

Less than 7 mg/L  
Typically < 4 mg/L Effluent  
Suspended Solids

6.0 – 7.0  
Operating pH Range

4 Treatment Trains  
To Manage Wide Variations in Flow  
and Provide Built-In Redundancy





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