

# 36" GREEN THREAD® Hot Process Water Pipeline



Application: Hot Process Water

Location: Northern Alberta, Canada

Product: 36" GREEN THREAD Fiberglass Pipe  
10" GREEN THREAD Performance Plus Fiberglass Pipe

Joining System: Matched Taper Bell x Spigot

Quantity: 36" - 10,300 meters (33,800 feet)  
10" - 3,000 meters (9,800 feet)

Product Conditions: Design Pressure: 1,380 kPa (200 psi)  
Design Temperature: 93° C (200° F)  
**30 YEAR DESIGN LIFE**

Qualification program included 1,000 hour "Survival Test"  
Installed line was 100% hydrotested with no leaks

## Installation:

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Handling: Use of custom shipping cradles and a vacuum lift to unload at site resulted in 100% damage free transportation and storage.

Installation: Bonds completed during winter (as low as -40° C) were done inside small, light weight portable tents with the use of indirect fired heaters.

The pipeline was buried in soil conditions that ranged from relatively dry sands to boggy muskeg.



Insertion: The GREEN THREAD 36" pipe was inserted into horizontal directional drill (HDD) 48" steel casing under several road and waterway crossings. One of these river crossings was reported by the customer as a record-breaking event for this size pipe (36") and length of crossing (733 meters) into a previously bored HDD. The insertion took only four hours to complete.

Fiber Glass Systems' GREEN THREAD pipe and fittings were chosen by the customer over carbon steel, thermal spray aluminum and duplex stainless based on FGS product performance, documented corrosion resistance, engineering support, production capabilities and quality control systems.