

ABOUT NORTHERN PULP

This is the right time for Northern Pulp.
We have the right owner.
We have the right product and the right people.

Since assuming ownership of Northern Pulp in 2011, Paper Excellence has injected over \$200 million into the business: for capital expenditures, for loan principal repayment and interest payments, for pension funding, and to support operational and working capital needs.

Northern Pulp, along with partners spanning across the province, are key to maintaining the health and vitality of the forestry sector in Nova Scotia.

Northern Pulp's Kraft Pulp represented **37% of the value of exports** from Nova Scotia to China in 2016.

Northern Pulp will continue its **progressive efforts to reduce our environmental footprint.**

With **over 330 direct full-time equivalent employees and families**, Northern Pulp is here for the long-term, investing throughout Nova Scotia.



NORTHERN PULP
NOVA SCOTIA CORPORATION

A PAPER EXCELLENCE COMPANY



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**NEW EFFLUENT
TREATMENT
FACILITY**

A NEW TREATMENT FACILITY

Northern Pulp and owner Paper Excellence are fully committed to undertaking all measures within our ability to ensure there is a new treatment facility in operation by January 2020.

Northern Pulp effluent performance has been improving consistently year-on-year due to significant upgrades, ongoing in-mill process enhancements, and continued efficient operation of the Boat Harbour Treatment Facility.

Effluent has been flowing into the Northumberland Strait for over 50 years, with no impact to fishing.

Today's effluent is a much better quality than decades past. The forest and fishing industries have co-existed for the past five decades and are able to continue to do so for the next 50 years.

FROM	TO
Current effluent treatment system is a biological system ASB (aerated stabilization basin)	Proposed new effluent treatment system is a biological system AST(activated sludge treatment)
Discharge into Northumberland Strait with no diffuser system	Discharge into Northumberland Strait with an engineered outfall diffuser (3km from existing outfall)
No oxygen delignification improvement	With oxygen delignification improvement
Meeting effluent regulations	Continuing to meet effluent regulations
Boat Harbour treatment facility (off-site)	On-site effluent treatment facility

"Pulp mill effluent shouldn't affect fishery in Northumberland Strait," says UPEI expert 'There is no legal reason or strong environmental concern to require stopping it.'

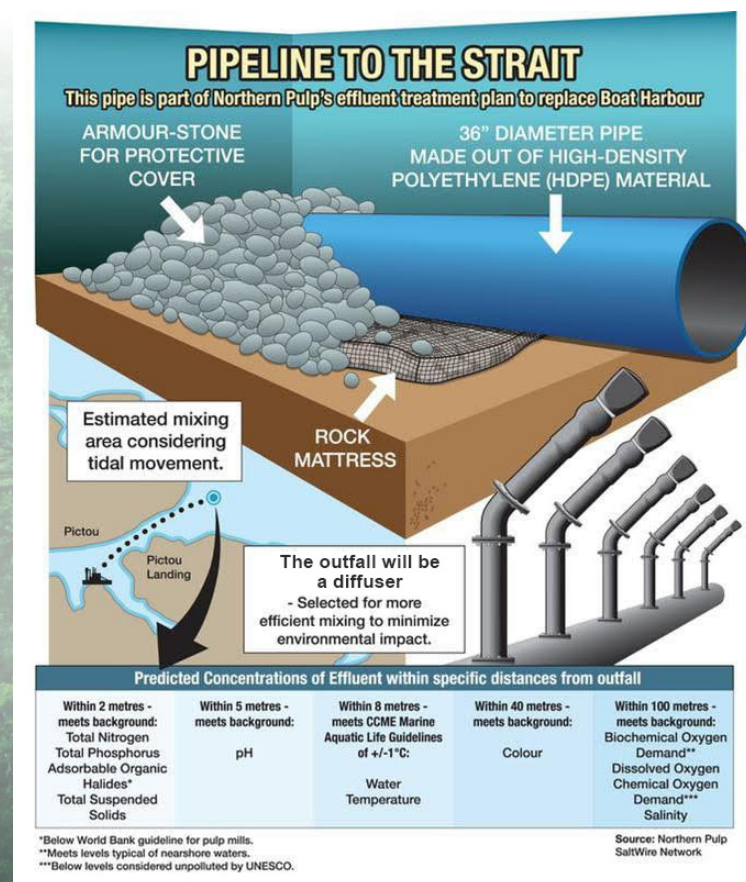
- CBC News (January 16, 2018)

PROVEN TECHNOLOGY

There are 131 Kraft mills operating in North America; 20 per cent operate AST systems (the proposed system for Northern Pulp) while 80 per cent operate ASB systems (the existing system Northern Pulp operates). In both Canada and the United States, no other treatment process is used to treat Kraft mill effluent.

Northern Pulp has thoroughly investigated treatment options available to Bleached Kraft mills. Technical options available must include an outfall discharge in order for Northern Pulp to operate.

The bottom line is **no pipe equals no mill**.



"The new facility will be an improvement."

- The Chronicle Herald (January 13, 2018)