



Name	Analytical Modeling of Saltwater Intrusion: Tests from NS and the Eastern US
Description	Abstract: Need has arisen to develop a simple method to assess the risk of seawater intrusion (SWI) for the purpose of managing fresh groundwater resources in coastal areas. An investigation was completed to assess the ability of the two-dimensional analytical solution from Strack (1976) to evaluate the risk of saltwater intrusion to a pumping well under a variety of aquifer conditions in Nova Scotia and the eastern United States. Strack's solution provides a simple, physically based method of comparing the relative risk of SWI based on the relationship between aquifer properties, but is not reliable for predicting saltwater intrusion in pumping wells
Type	
Sector	- Infrastructure
Focus Area	- Climate Impacts on Water Resources
Region	
Lead Agencies	Nova Scotia Department of Natural Resources Francis St. Xavier University