



PIPELINE ROBOTICS
ENERGY SERVICES
RESEARCH AND DEVELOPMENT

Compiled by ULC 9/5/2013

Affected Project Focus	Description	Likelihood	Impact Rating	Mitigating Action / Contingency Plan
2	There is a risk that a solution for remotely repairing leaking Weco seals and mechanical joints will not be determined.	1	5	ULC will develop sealing methods and conceptual designs early in the project schedule to ensure that a method is determined. Shop testing will be performed to ensure that the methodology provides an adequate seal. A "Go No Go" decision at an appropriate point in the project if a solution has not been determined.
1,2,3	There is a risk that the technology developed cannot be operated at the target length of 150 meters or manoeuvre around debris, obstacle and bends.	2	4	ULC will utilize 3D modelling and simulation techniques throughout the design to determine the estimated travel distance and ability to manoeuvre within the pipe (launch, retrieve, avoid or travel over/through debris and obstacles, etc). Once the manoeuvrability and the overall travel distance for each pipe size has been determined a decision can be made to pursue one concept, modify the design to meet the specifications of the project or modify the project criteria to meet the design limitations.
3	There is a risk that a sensor will not be found which meets the requirements.	2	5	ULC will generate a report outlining options for sensors and the pros/cons of each will be performed early in the project. A collaborative decision relative to the sensor selected for the project will be performed between SGN and ULC.

Risk Register

Likelihood and Impact Rated 1-5

1 least likely/lowest impact

5 Most likely/highest impact