

Valves Fact Sheet

Pipeline shut-off valves are part of the Energy East Pipeline Project's overall pipeline design aimed at preventing and minimizing the impact of a potential leak on the environment and the property of others.

In order to place shut-off valves where they can offer protection to local environments and property, as well as maintain system reliability, Energy East utilizes a rigorous and iterative approach, which evaluates local geography and topography in relation to identified sensitive areas that Energy East calls Highly Sensitive Receptors (HSRs). These HSRs include cities, towns, areas where species at risk are present, water wells and other surface water intakes around the proposed pipeline route.

The process to determine valve sites involves an evaluation of all water crossings along the route that considers potential downstream impacts. For Energy East, we have identified and are examining nearly 3,000 stream crossings proposed along the project's pipeline route. While the vast majority of these streams are very small, often seasonal or ephemeral,

each proposed crossing location is undergoing a thorough engineering evaluation.

The local topography and geography are carefully evaluated during the valve siting process, and each valve is custom-located to provide optimal protection. The distance between valves is highly variable and completely dependent on local conditions.

The Energy East team is currently completing a valve placement review to place valves in areas optimal for public safety, protection of the environment and property, and maintenance requirements once the pipeline is in operation. Final valve site locations will be confirmed during the detailed design phase of the project.

A description of the project's valve placement process is currently documented in the Energy East Pipeline Project's Application (Application), Volume 4, Section 2-11, located on the National Energy Board's website. A preliminary list of valve locations is also available in the Application, Volume 5, Appendix 5-41.

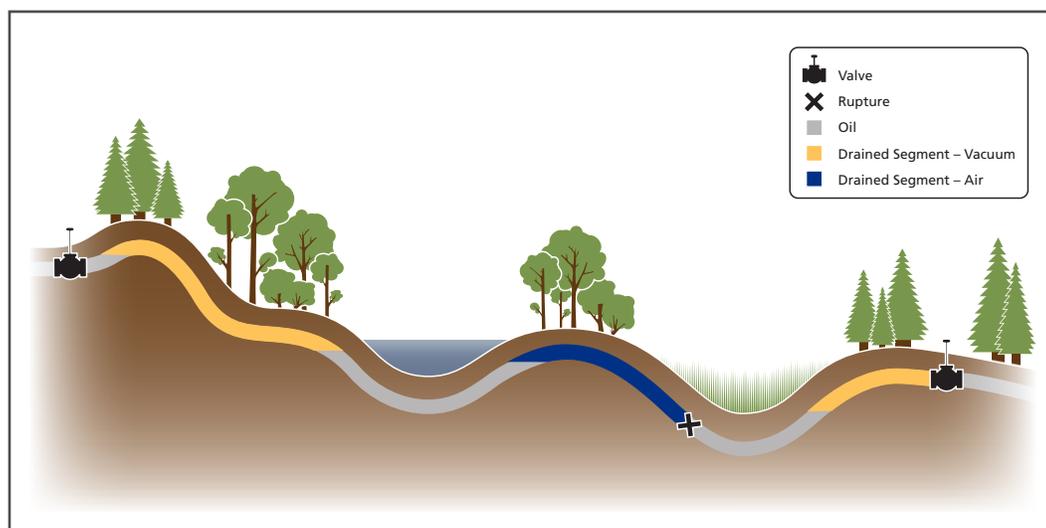


Figure 1 – How Geography & Valves Limit Releases

Valves are placed to minimize the impact of a leak on the environment and the property of others. A rigorous evaluation of the local geography and strategic placement of valve sites limit the potential for oil to be released into HSRs.

Energy East Pipeline



Contact us

We encourage your input and invite interested stakeholders to contact us.

1.855.895.8750 (Toll-free)

EnergyEast@TransCanada.com

EnergyEastPipeline.com



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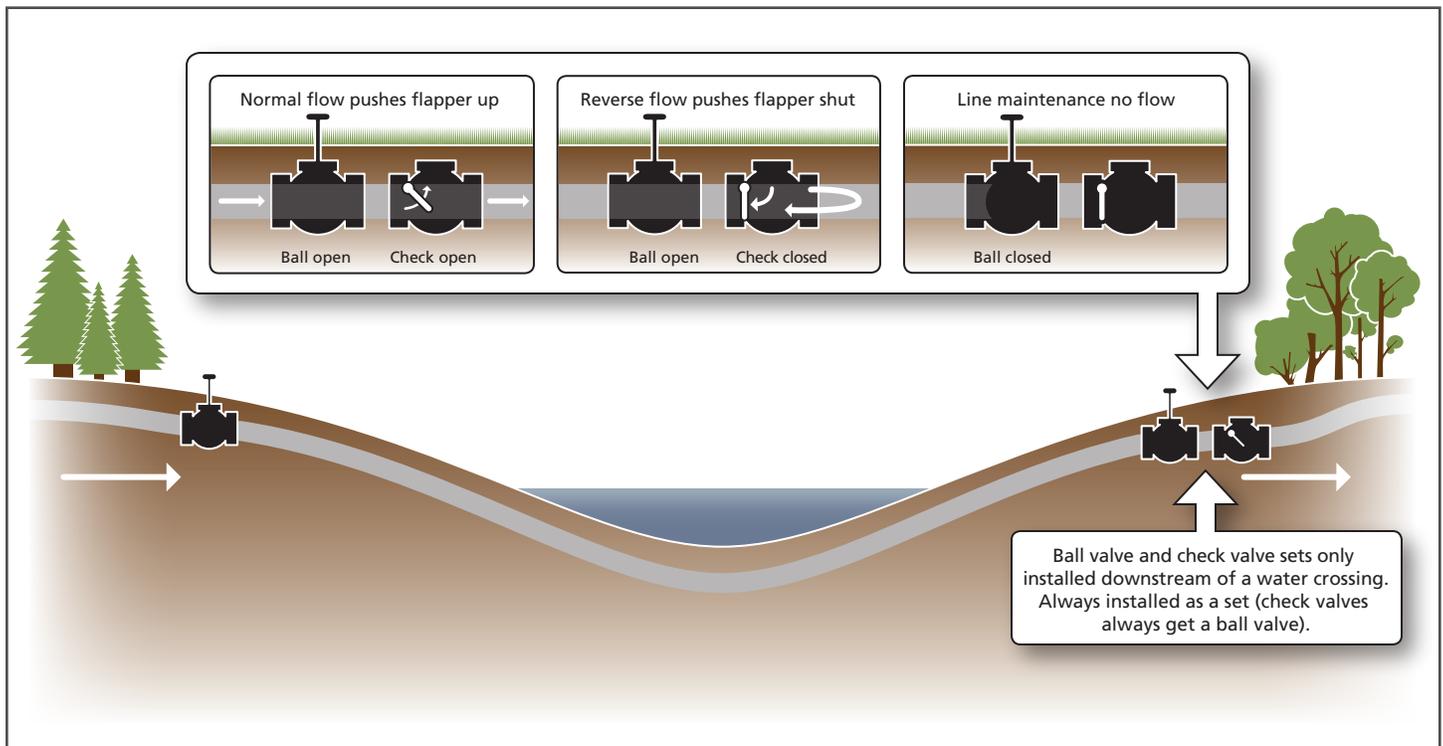


Figure 2 – How a Check Valve Works

Check valves can be used in some locations to prevent oil from flowing backwards through the pipe.