

**Exhibit 1:** Diluted Bitumen-Derived Crude Oil: Relative Pipeline Impacts (Battelle 2012)

**Exhibit 2:** Comparison of the Corrosivity to Dilbit and Conventional Crude (Been 2011)

**Exhibit 3:** Effects of Diluted Bitumen on Crude Oil Pipelines (National Academy of Sciences 2013)

**Exhibit 4:** Crude Oil at the Bemidji site: 25 Years of Monitoring, Modeling, and Understanding (Essaid et al. 2011)

**Exhibit 5:** Use of long-term monitoring data to evaluate benzene, MTBE and TBA plume behavior in groundwater at retail gasoline sites (Kamath et al. 2012)

**Exhibit 6:** Review of Quantitative Surveys of the Length and Stability of MTBE, TBA, and Benzene Plumes in Groundwater at UST Sites (Connor et al. 2015).

**Exhibit 7:** Characteristics of Dissolved Petroleum Hydrocarbon Plumes: Results from Four Studies (Newell and Connor 1998)

**Exhibit 8:** A comparison of benzene and toluene plume lengths for sites contaminated with regular vs. ethanol-amended gasoline (Ruiz-Aguilar et al. 2003)

**Exhibit 9:** Evaluation of the impact of fuel hydrocarbons and oxygenates on groundwater resources (Shih et al. 2004)

**Exhibit 10:** Leukemia Risk Associated With Low-Level Benzene Exposure (Glass et al. 2003)

**Exhibit 11:** United States Department of State 12.1: Keystone XL Project, Risk Analysis (Kothari, Bajnok, Tillquist)