Feature Legend **Geomorphology** **Climate** **Hydrology and hydraulics** **Land use** **Water quality**

Plots of Feature Permutation Importance (FPI) versus Number of samples in training set for the following features: Elevation, Water temperature, Forest cover, Cropland, Oxygen concentration, Oxygen saturation, Ground water table, Slope, Irrigated area, MAAT, Reach depth, Stream order, Stream speed, Stream speed range, MAP, Runoff, MAAT range, MAP range, Pasture extent, pH, Stream gradient, Population density, Dam regulation, Permafrost extent, Glacier extent.