

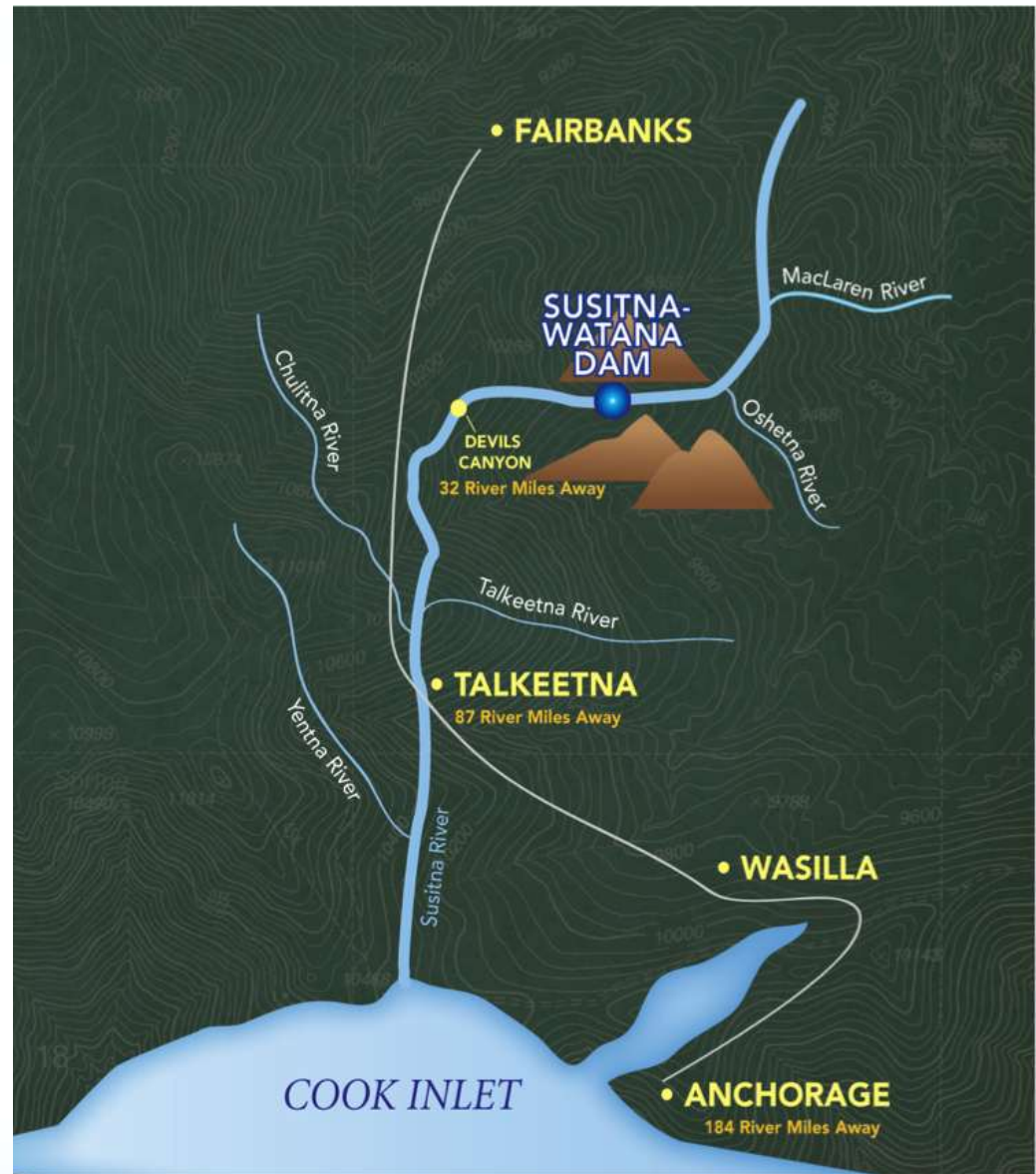
Baseline Water Quality Monitoring Study

Susitna-Watana Hydro Electric Project



Baseline Water Quality Monitoring Sites

- Located from River Mile 15.1 to River Mile 233.4
- Sites in Lower River, Middle River, and Upper River



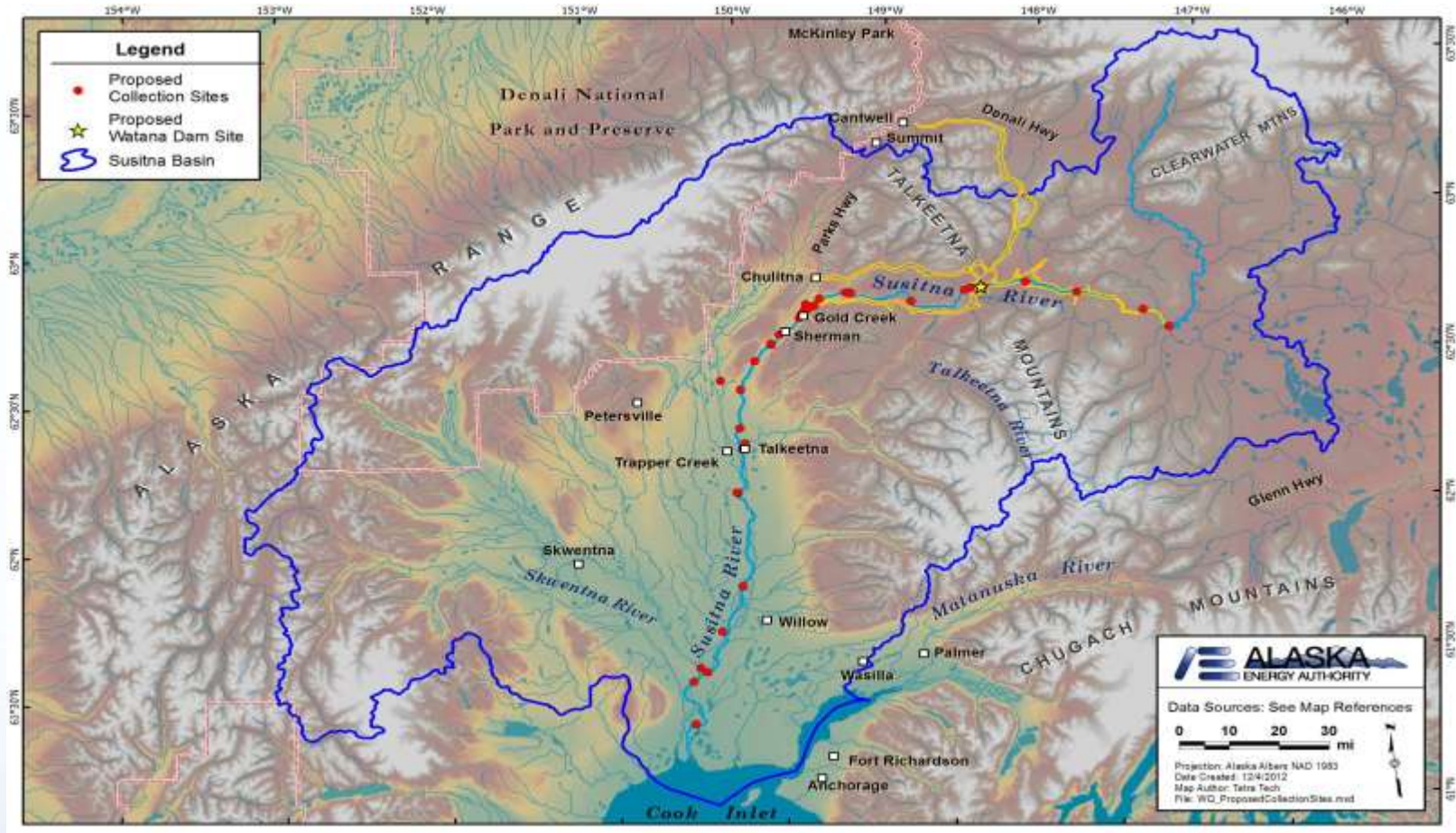
Purpose of Baseline Water Quality Monitoring Sites

- To adequately characterize surface water chemical, physical, and bacterial conditions.
- Measure baseline metals concentrations in sediment and fish tissue.
- Supply the Water Quality Modeling Study with data for development of a Reservoir Model and Riverine Model.



Baseline Water Quality Monitoring

Sampling Locations



Baseline Water Quality Monitoring

- Field Parameters
- General Chemistry Parameters (including)
 - Petroleum Hydrocarbons
 - Radionuclides
- Metals – (Water) Dissolved and Total
- Metals –Sediment (Total)
- Metals – Fish Tissue (Use EPA Sampling Method 1669) (Mercury Assessment Study Plan 5.7 only)

Sampling Strategy

- Transect at each sampling site (39 sites)
- 3 equidistant samples along each transect
 - 0.5m from surface and 0.5 m from bottom at each equidistant sample location
- More extensive list of parameters measured than in Focus Areas

