

Topic/Title: A Pilot GIS Hydrography Model for the Spokane Tribe

Organization: Spokane Tribe GIS

Contact Name: Tim Leach, MS GIS, GISP

Email Address: Tim.Leach@SpokaneTribe.com

Personnel from organization to be involved: Tim (possibly, Water Quality's Casey Pharr)

Data available:

WA DNR (Water Courses, WC, at DNR),

Spokane Tribe Stream feature class,

USGS derived DEM and/or Contours

WA DNR (Water Bodies, WBWS, at DNR)

NAIP 2009 Imagery

(Other Spokane Tribe base feature classes will be available.)

Project Description:

Design a pilot hydrography database for use by Spokane Tribe GIS. The design should be as simple as possible, compatible with Washington DNR's water courses feature class. The file geodatabase will be used for small and large scale maps. It will be used to update stream related field data captured through use of GPS technology. The feature class should have demonstrated network topology that can be used for rudimentary flow analysis.

Benefits to organization:

The project will provide a geospatial dataset that can be used to maintain and collect spatial information with reference to streams outside and within the Spokane Tribe's reservation area. It will provide a starting place for incorporating elements of more sophisticated models in the future. This dataset will become the first version of the Tribe's GIS hydrography database.