



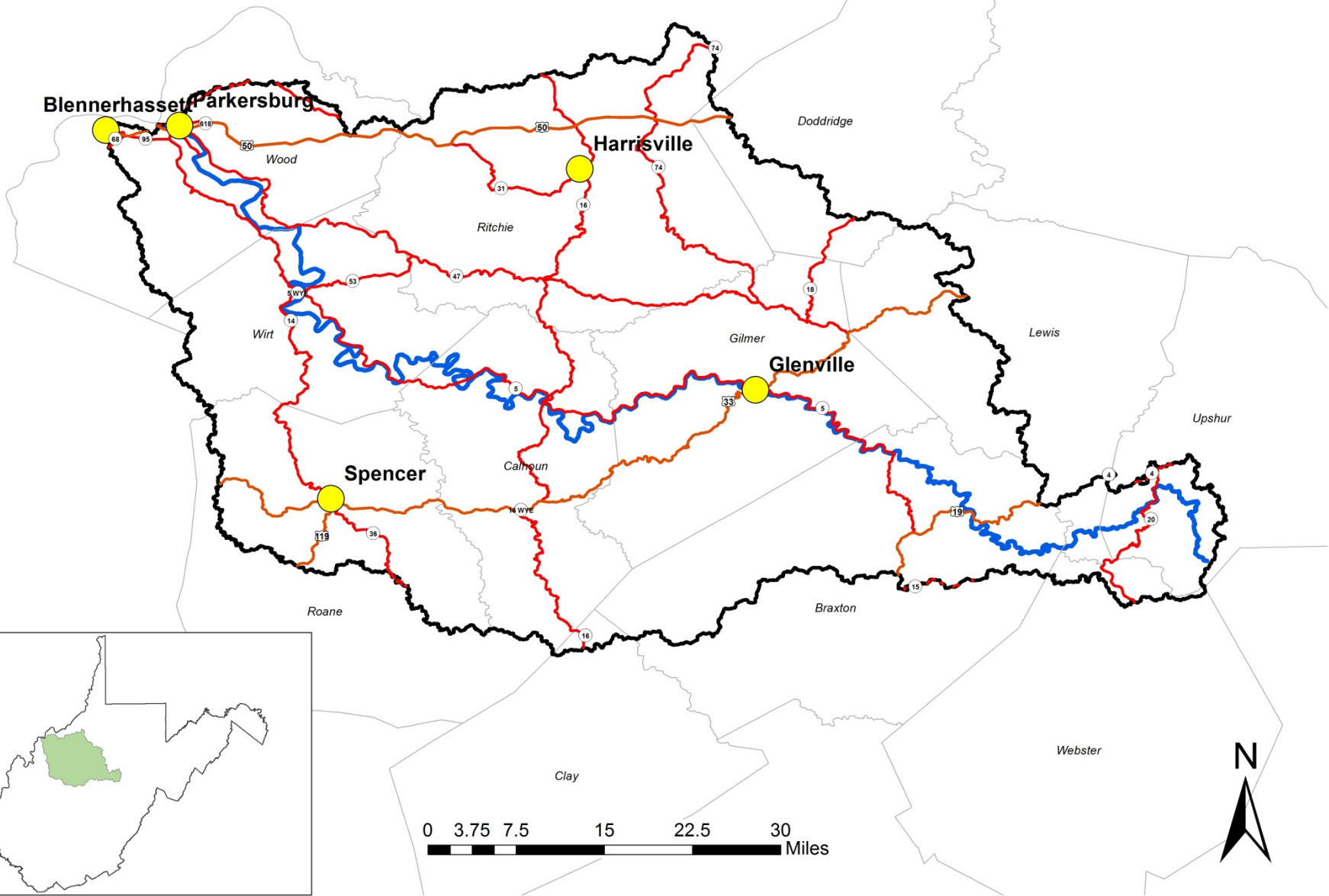
WEST VIRGINIA WATERSHED ASSESSMENT PILOT PROJECT

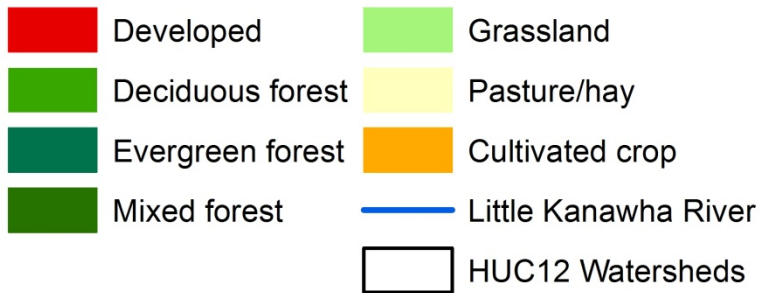
Stakeholder Workshop: Little Kanawha River Watershed
May 8, 2013

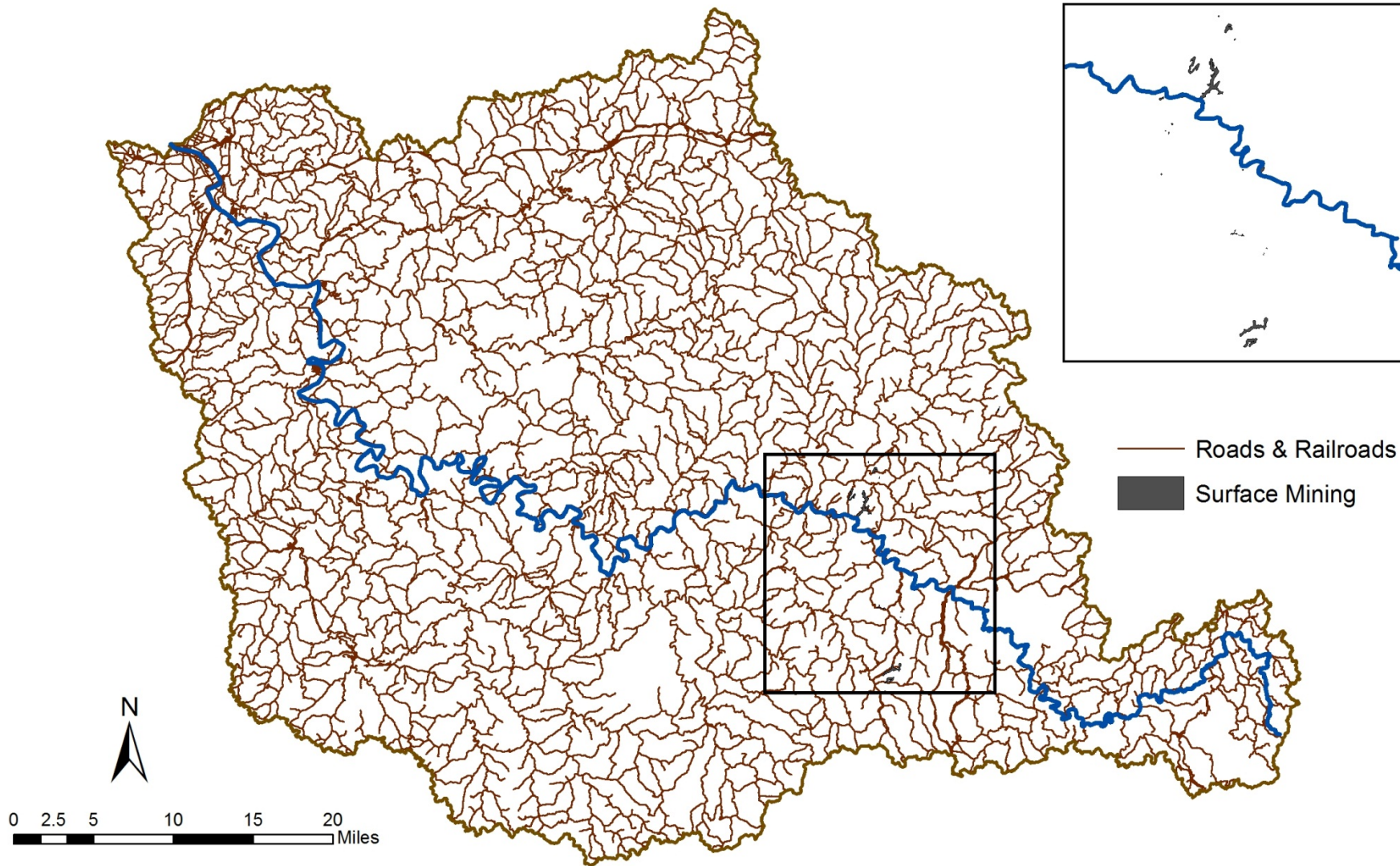
Little Kanawha River Watershed

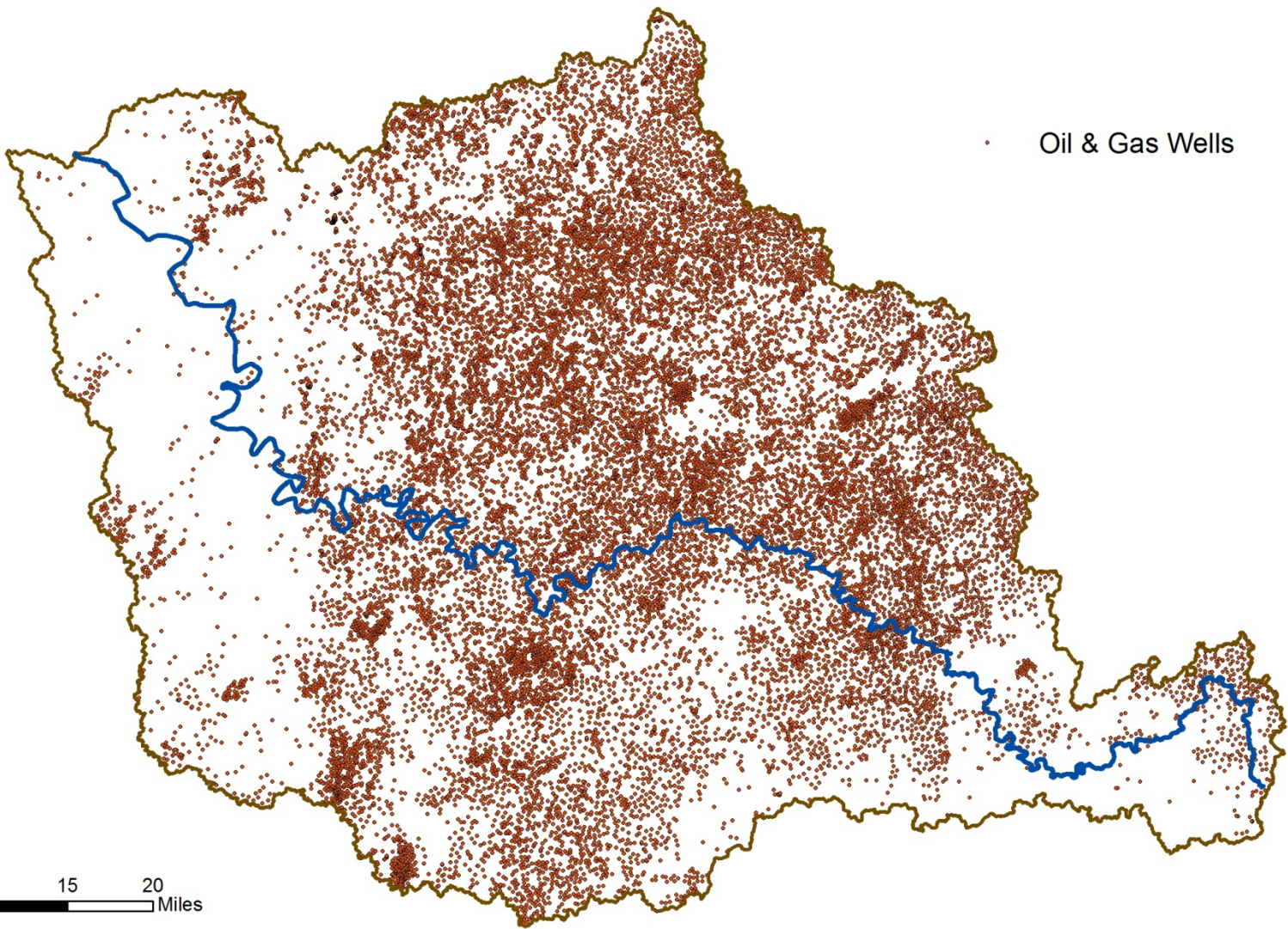
1. Watershed Overview
2. Current Condition Results
Streams, Wetlands, Uplands
3. Consolidated Analysis Results
Threats, Opportunities
4. Web Map Tool Demo
Potential Use Scenario

Little Kanawha Watershed









Oil & Gas Wells



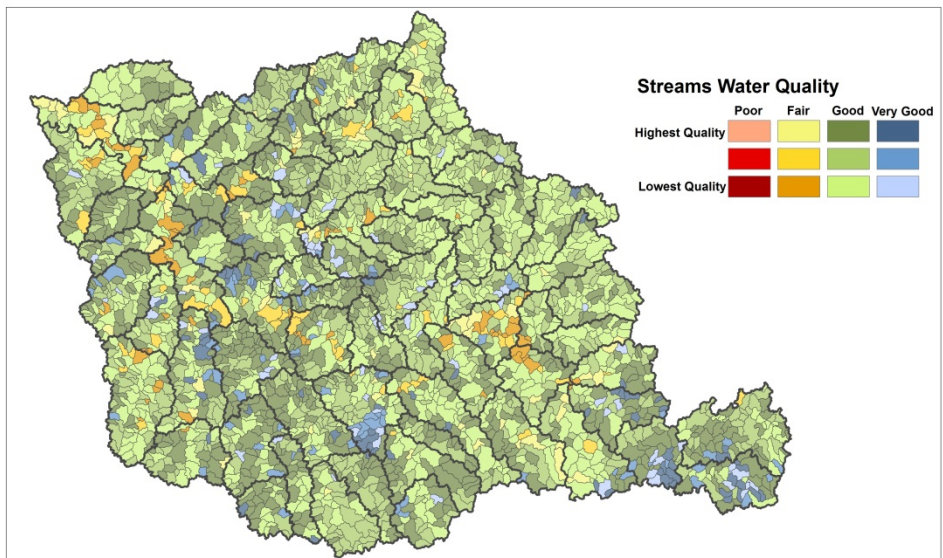
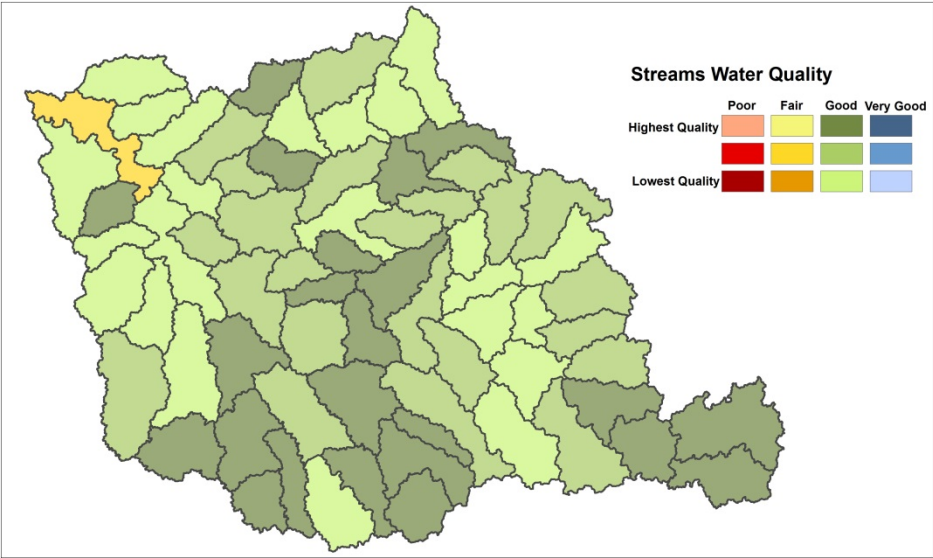
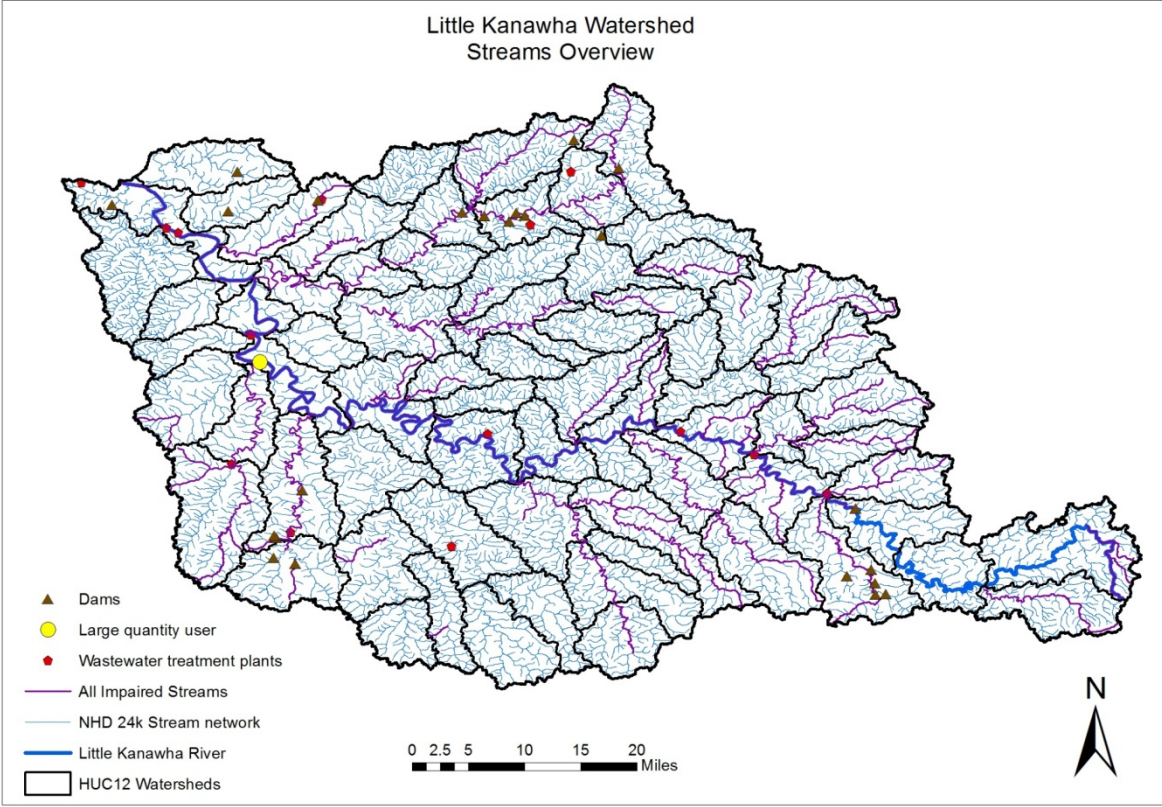
0 2.5 5 10 15 20 Miles

Little Kanawha Watershed: Streams

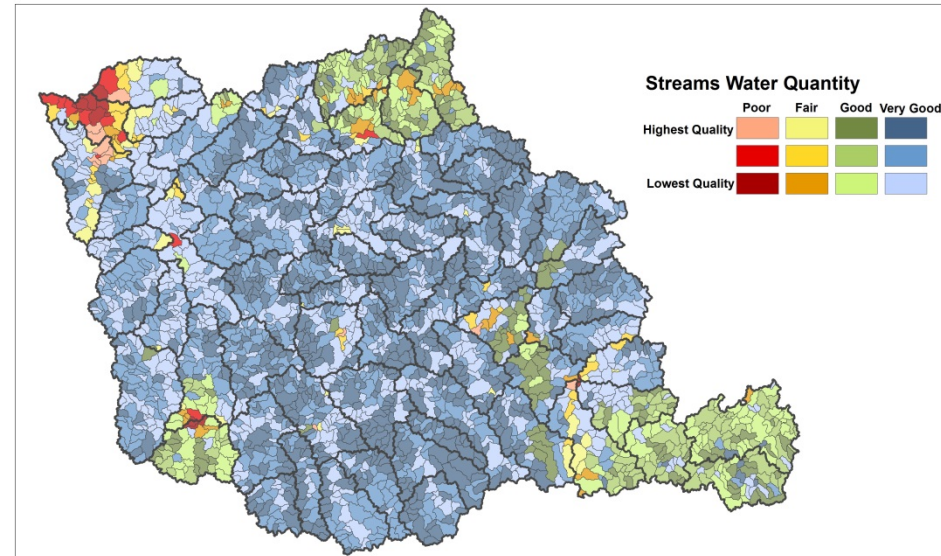
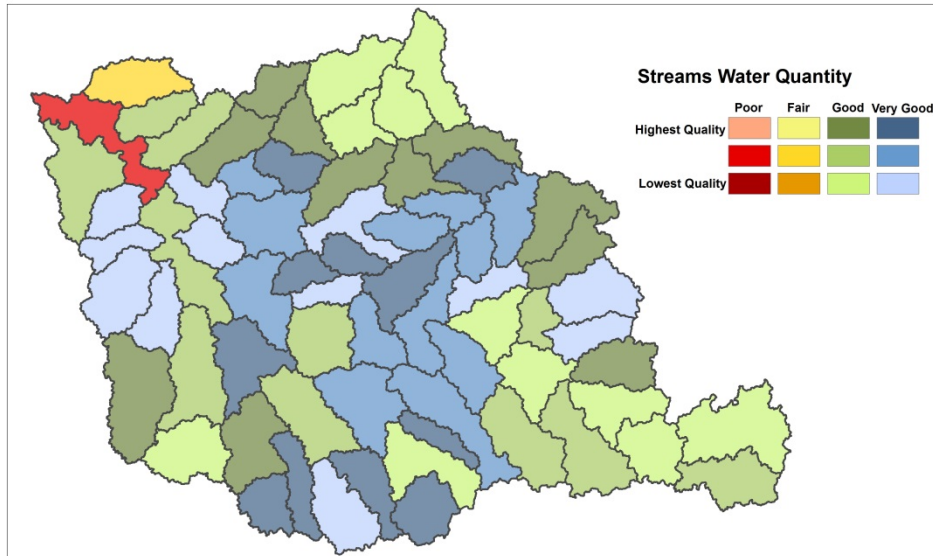
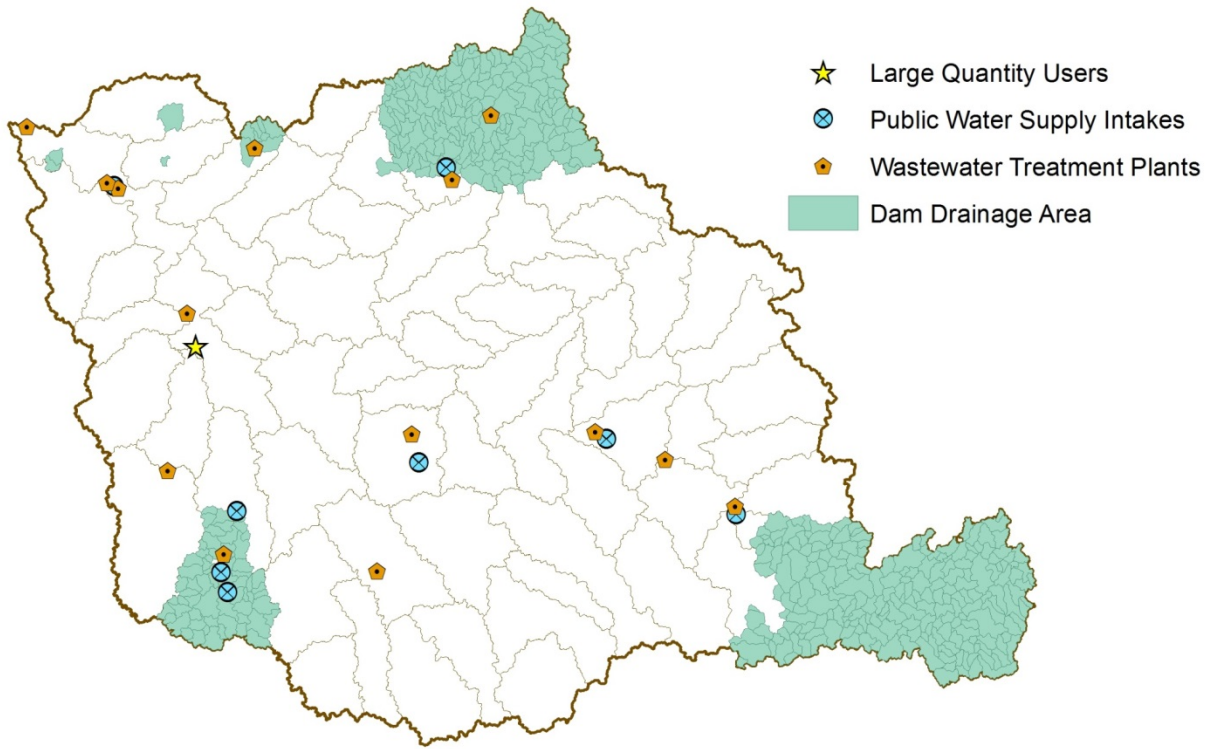


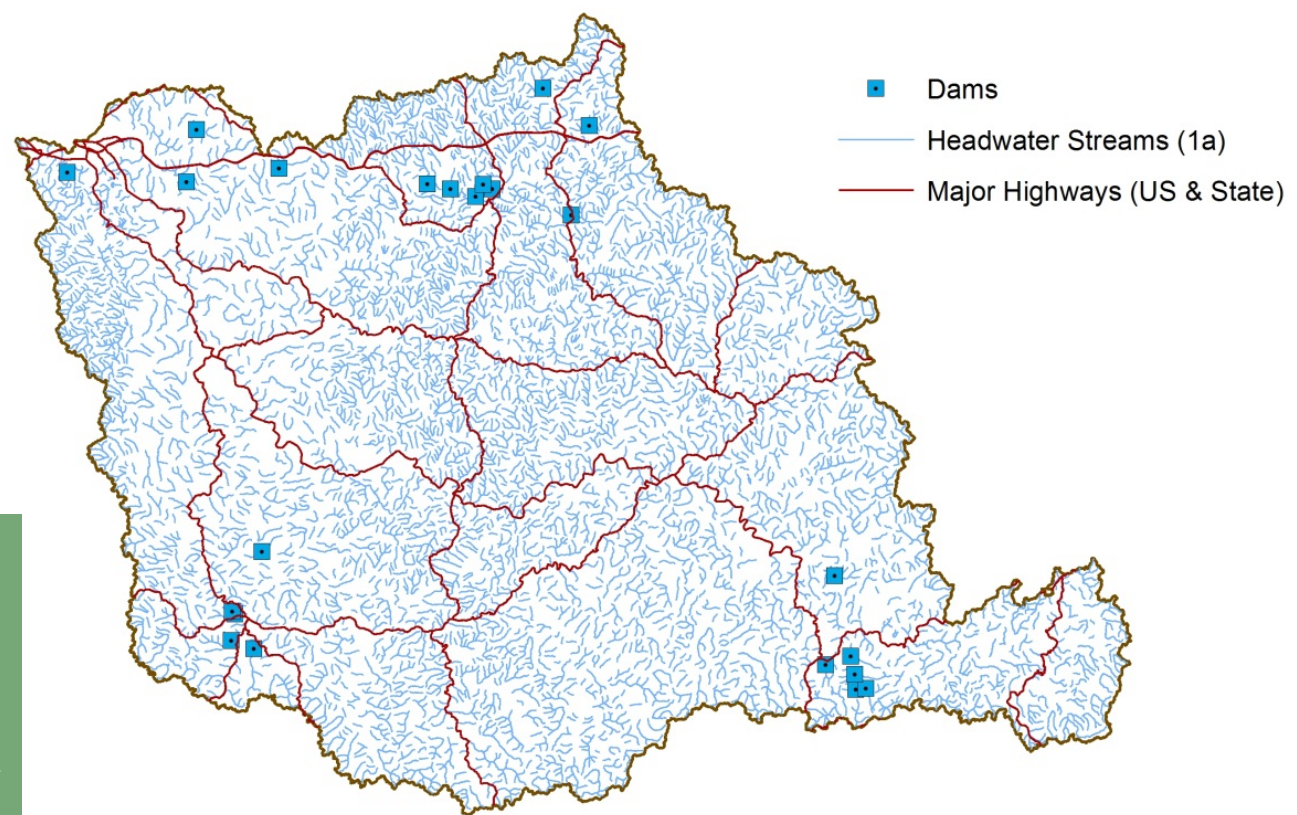
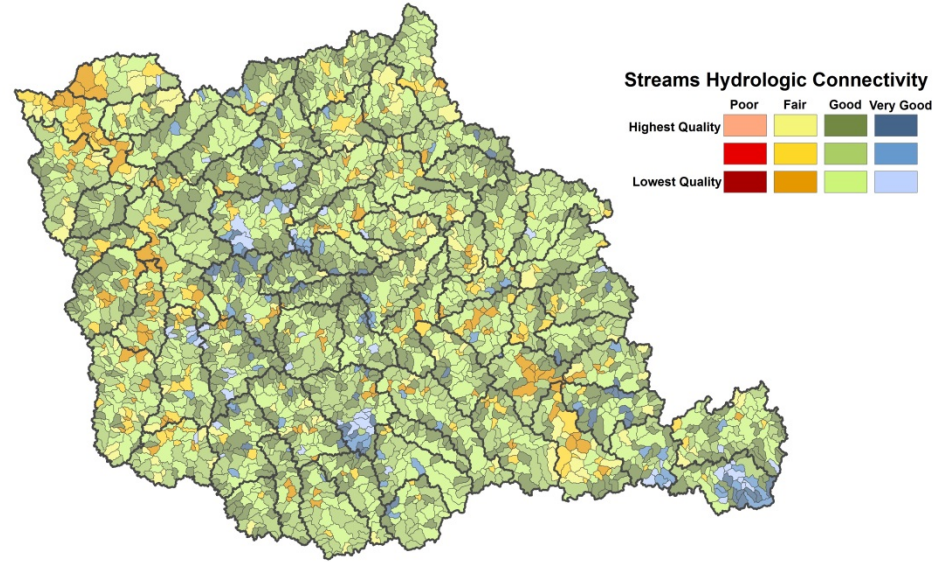
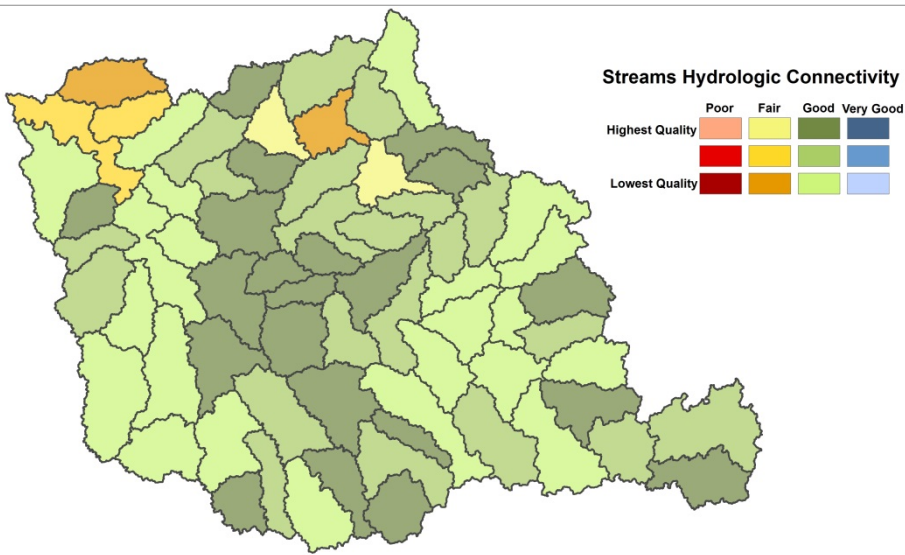
Walker Creek ©en.wikipedia.org

Streams Water Quality

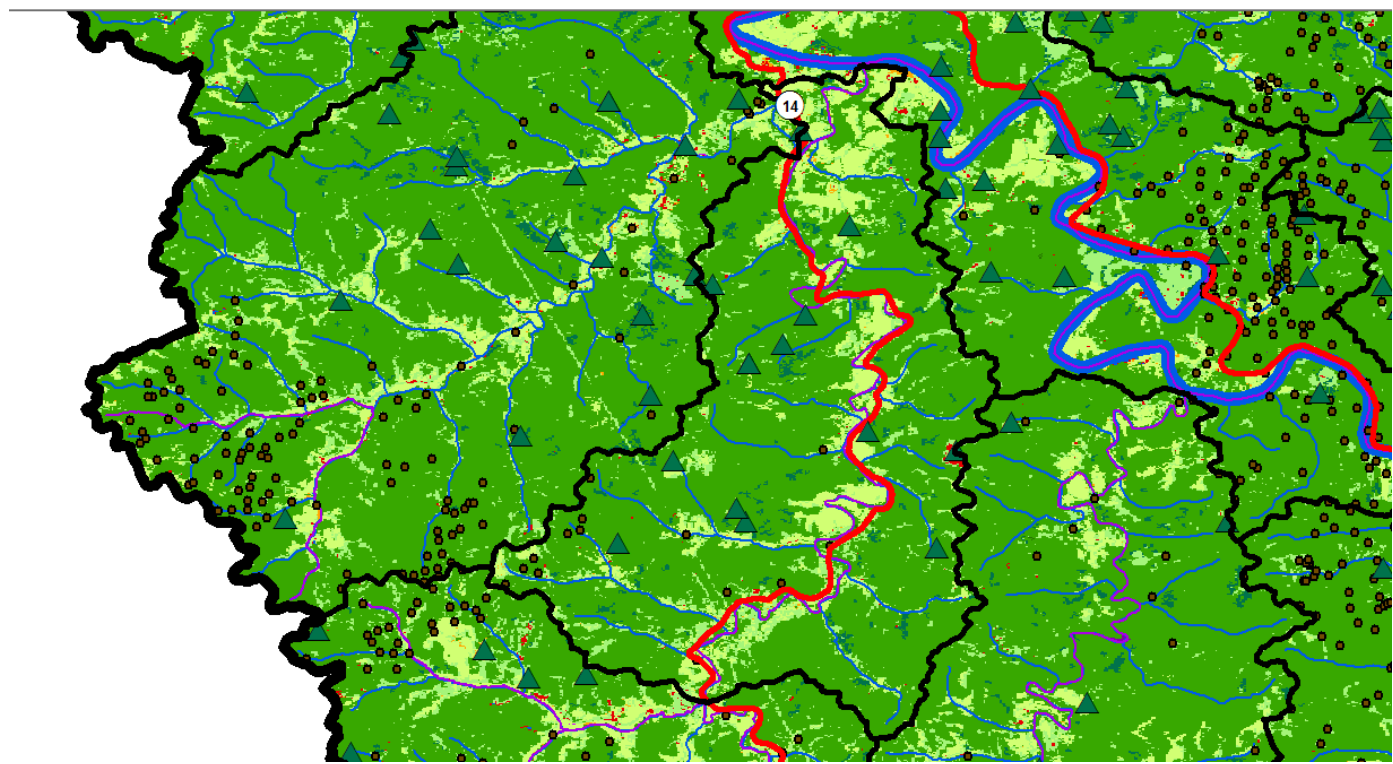
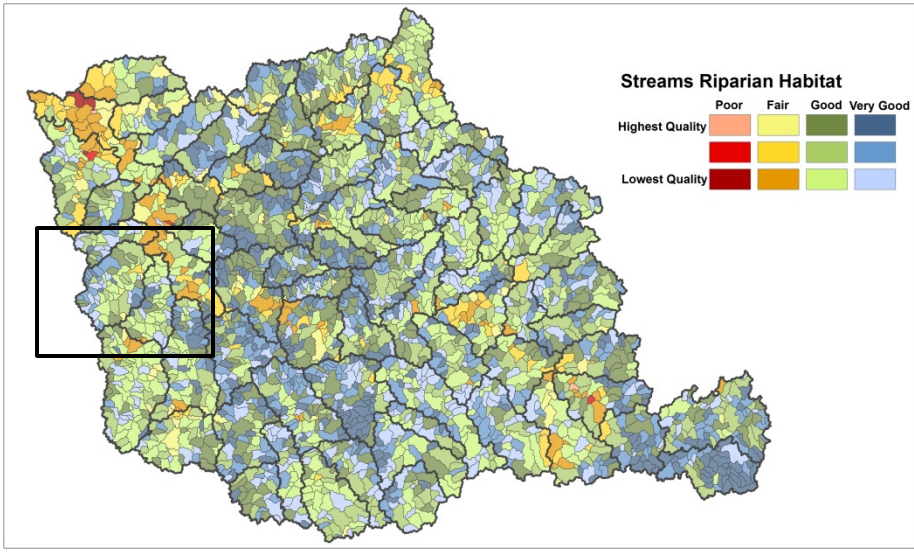
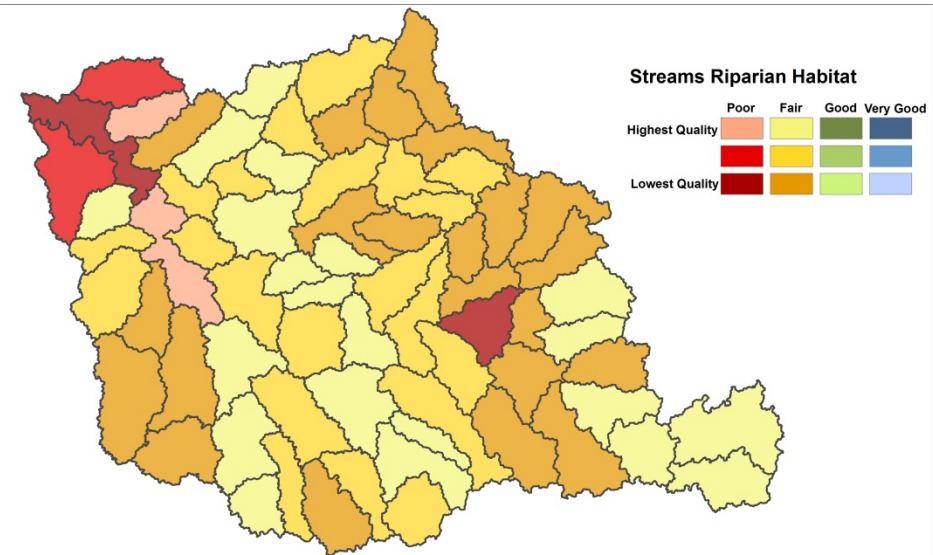


Streams Water Quantity

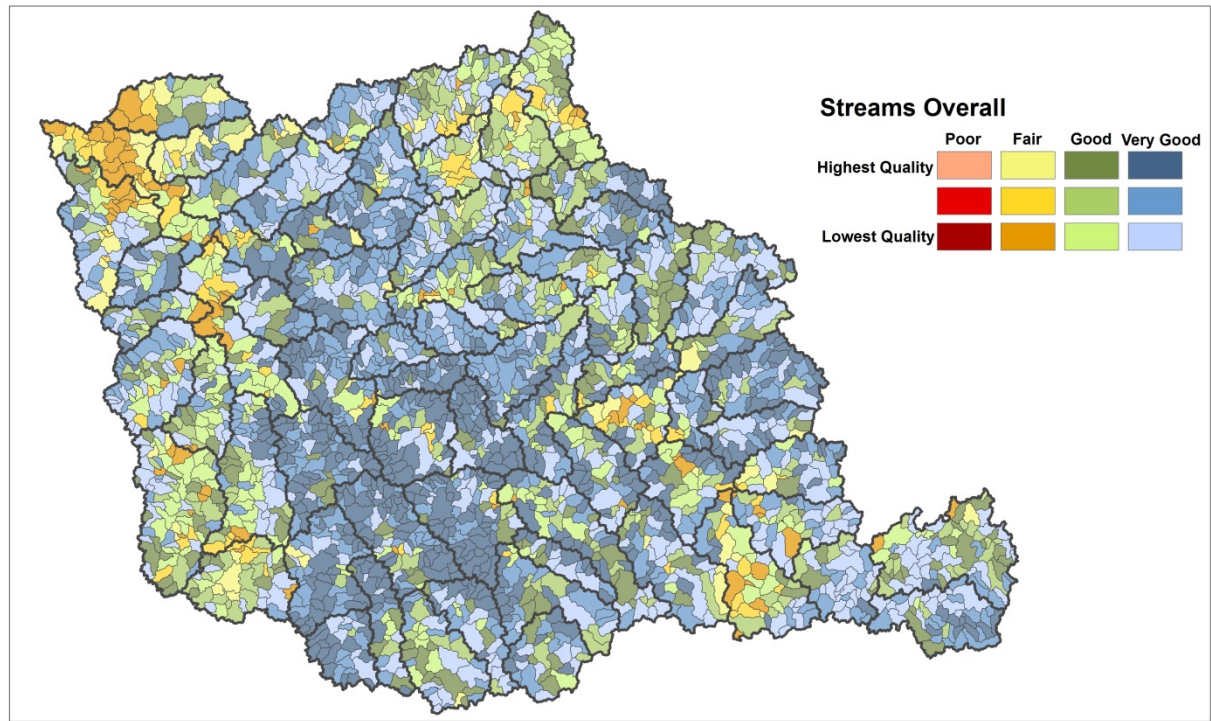
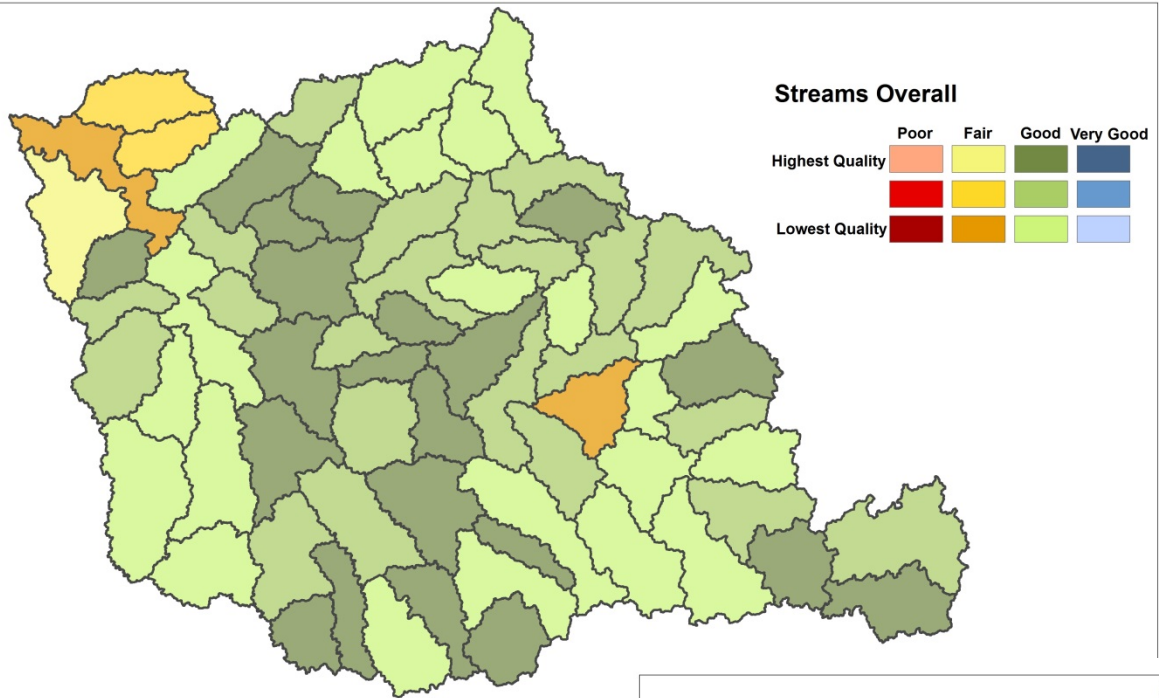




Streams
Hydrologic
Connectivity



Streams
Riparian
Habitat

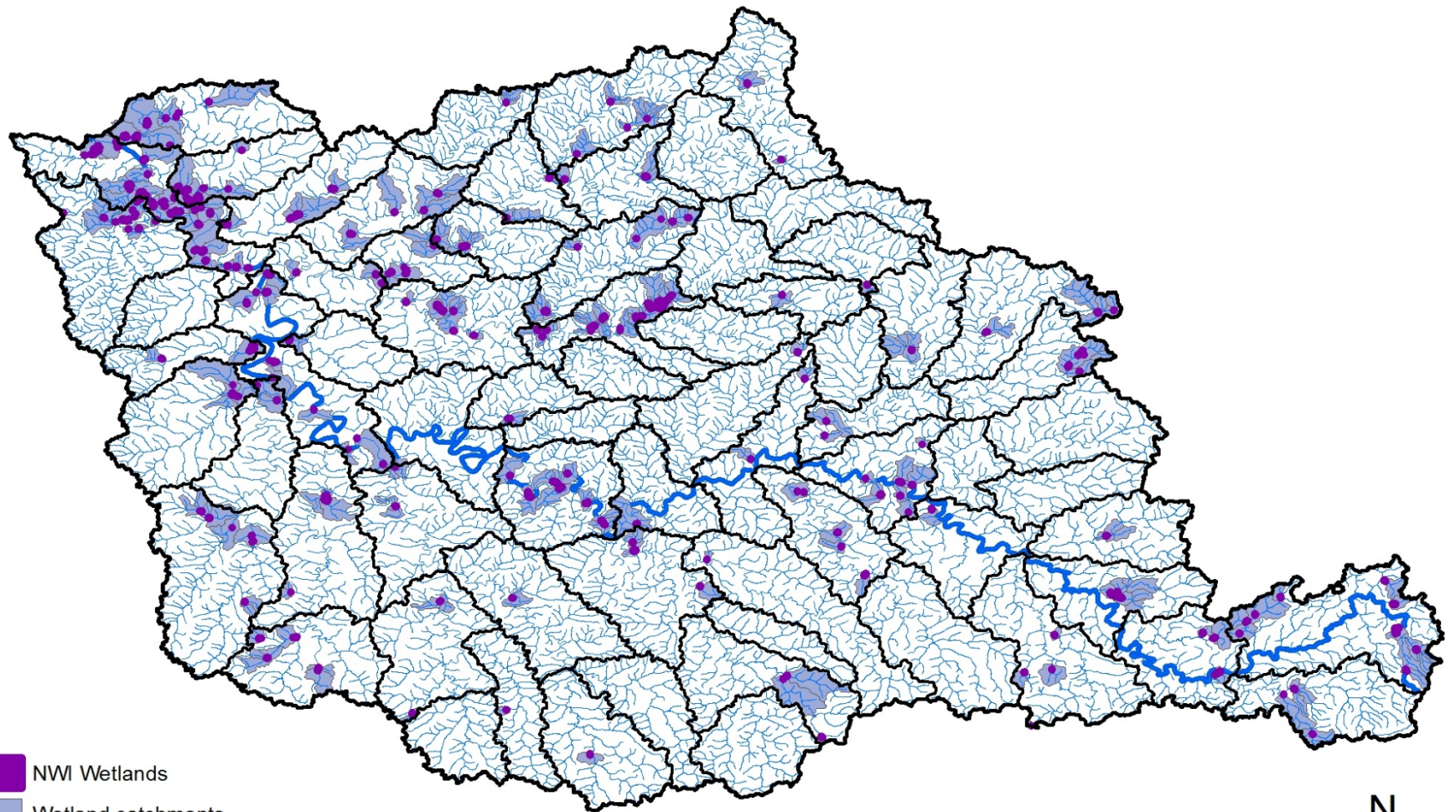







Streams
Model
Overall

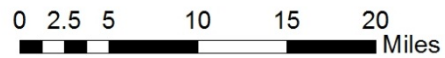
Little Kanawha Watershed: Wetlands

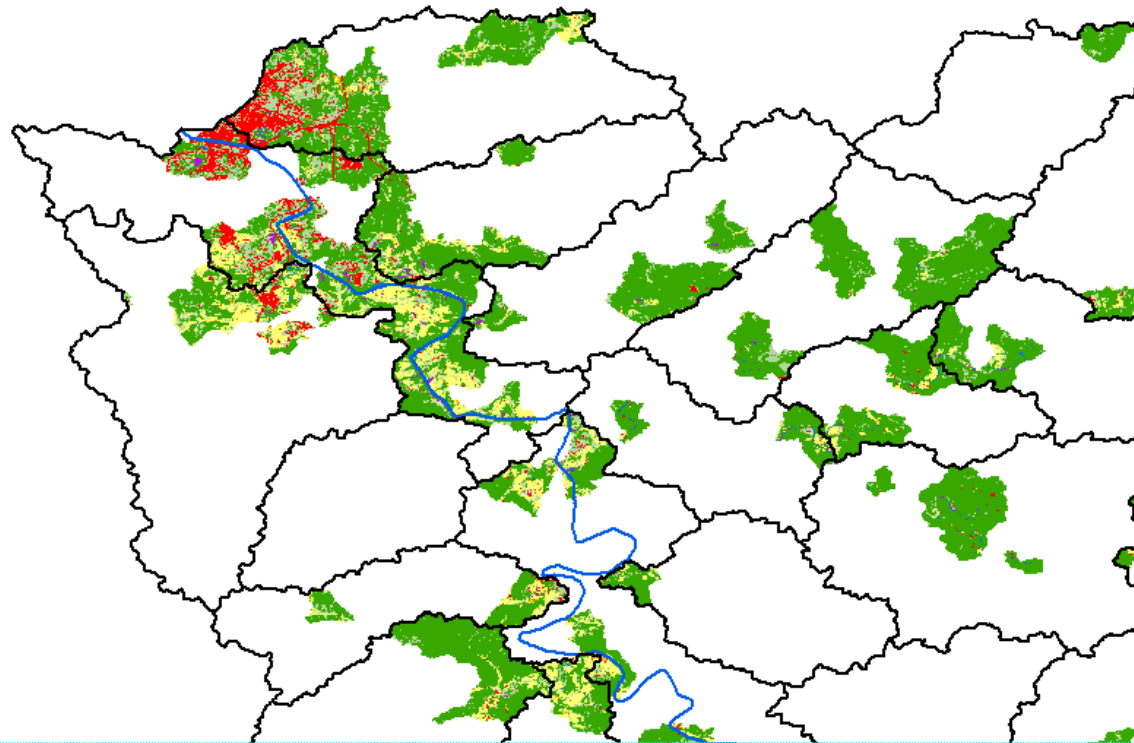
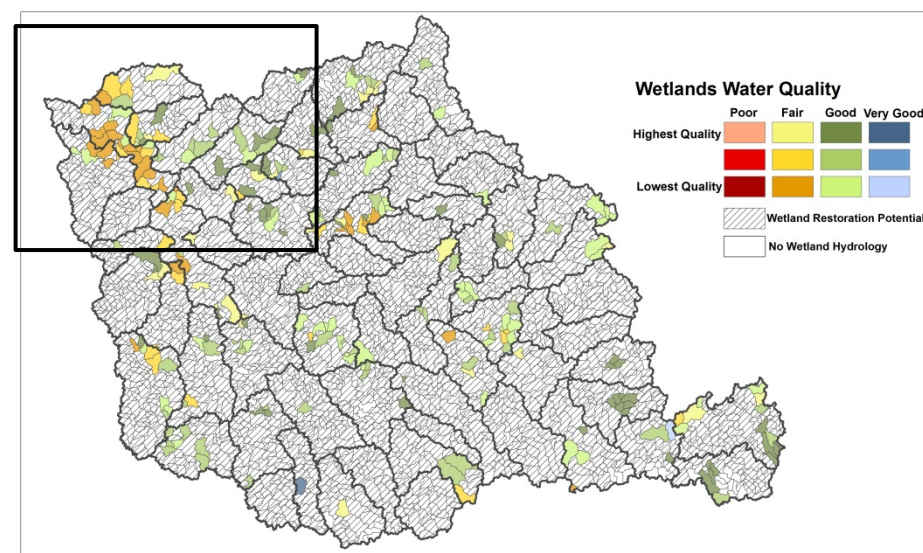
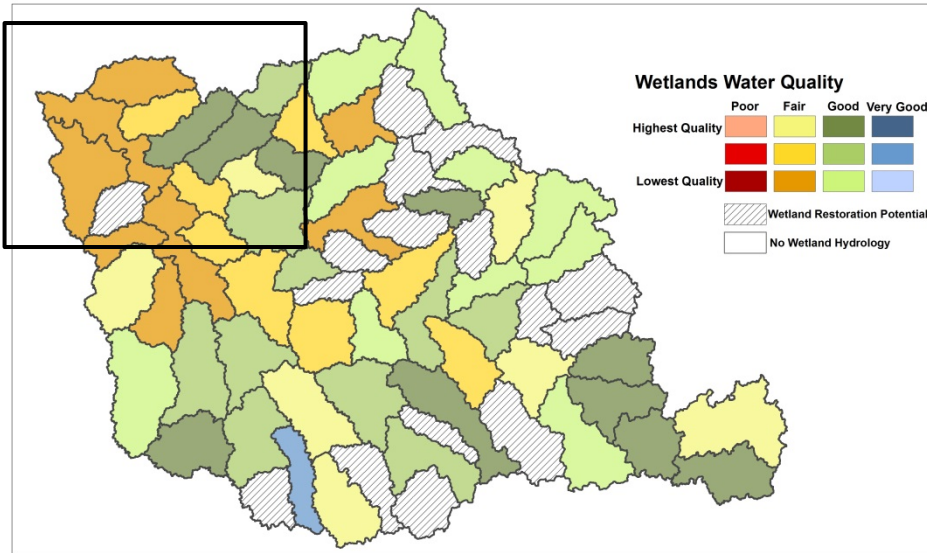


Little Kanawha Watershed Wetlands Overview



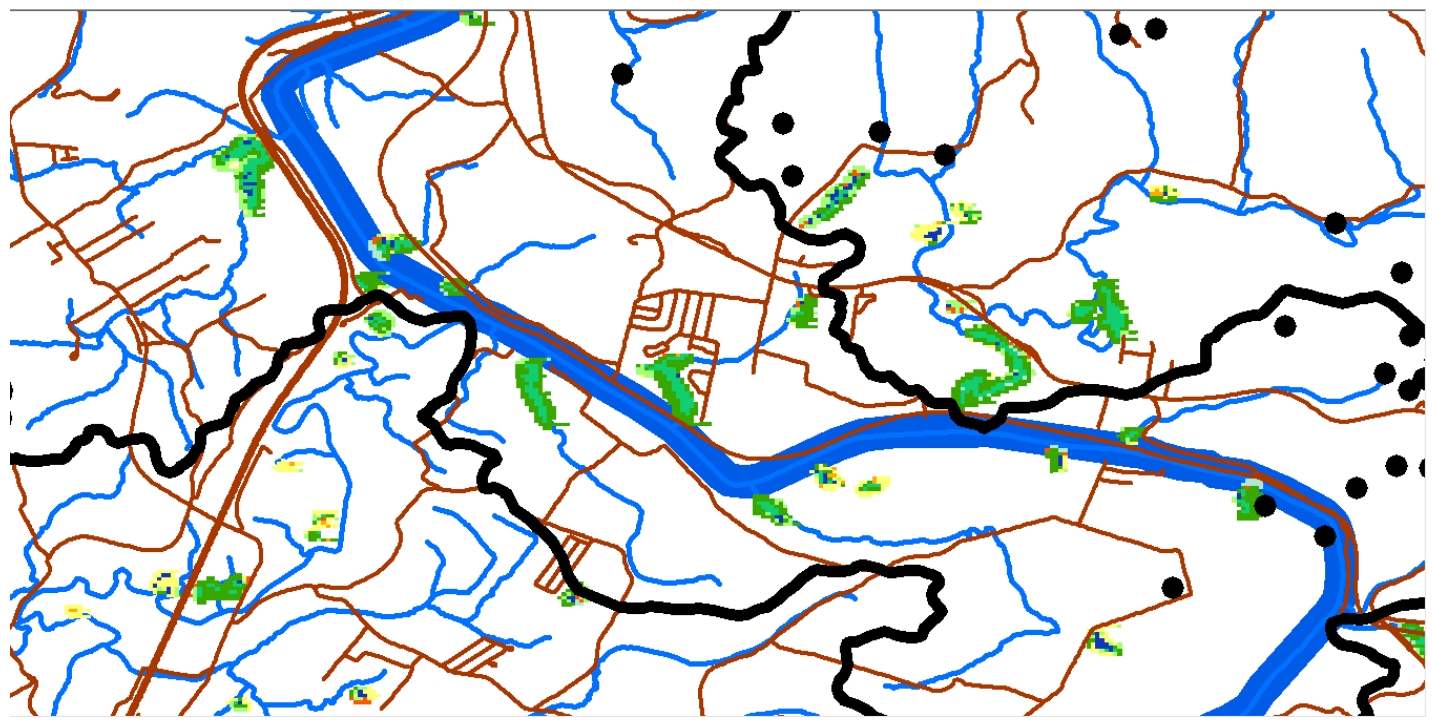
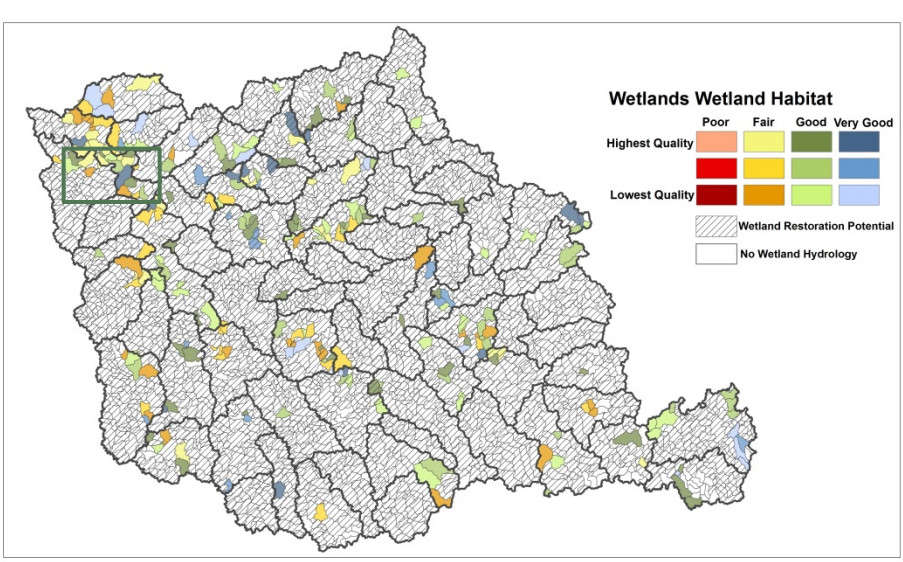
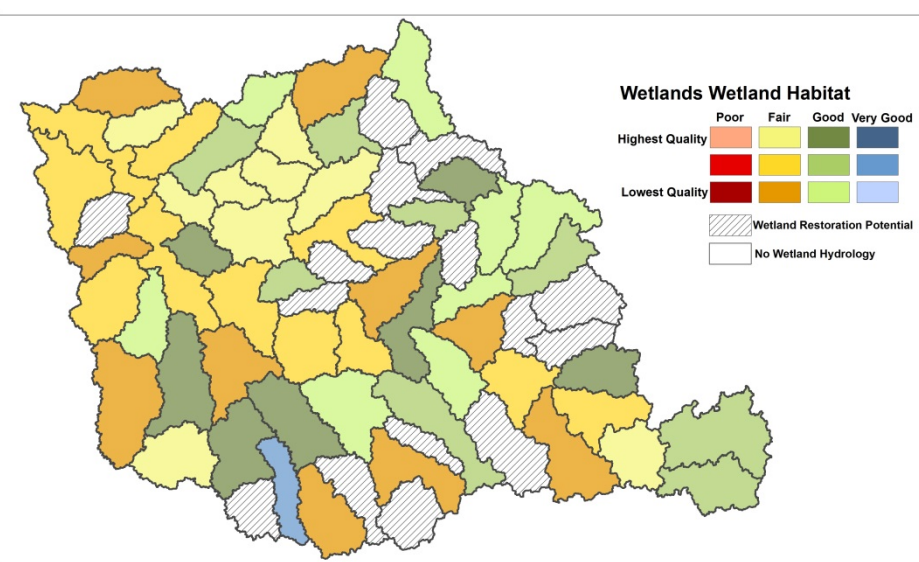
-  NWI Wetlands
-  Wetland catchments
-  NHD 24k Stream network
-  Little Kanawha River
-  HUC12 Watersheds



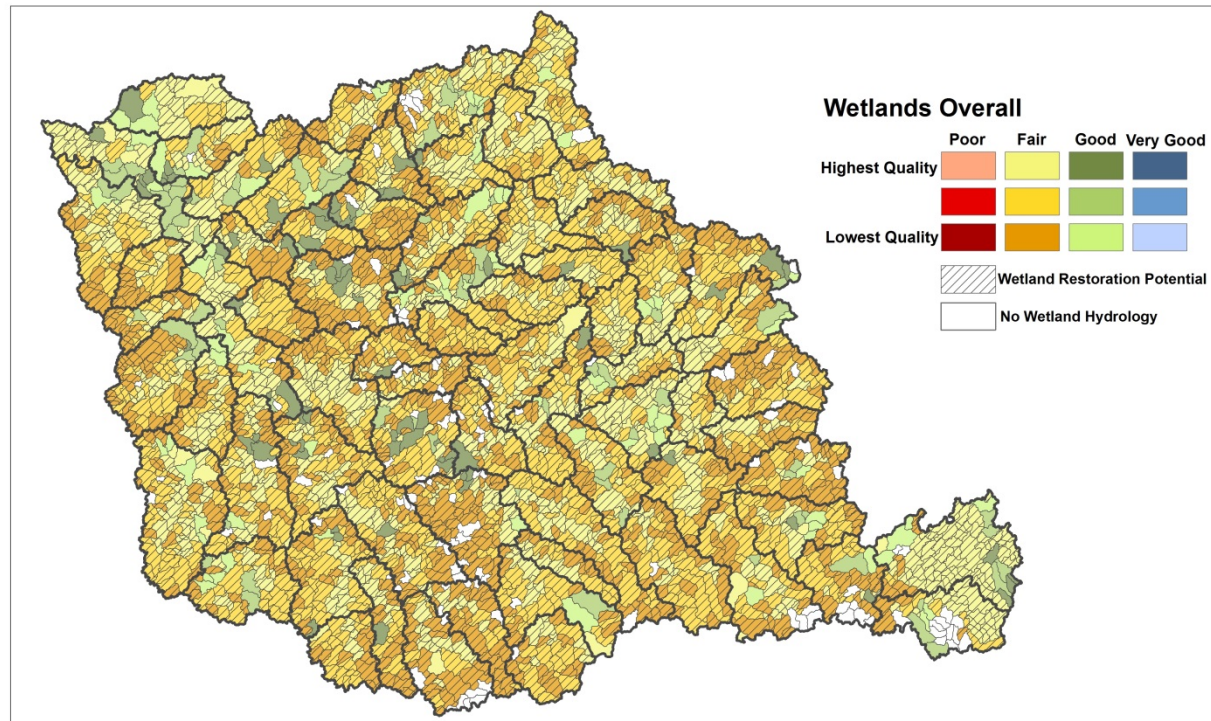
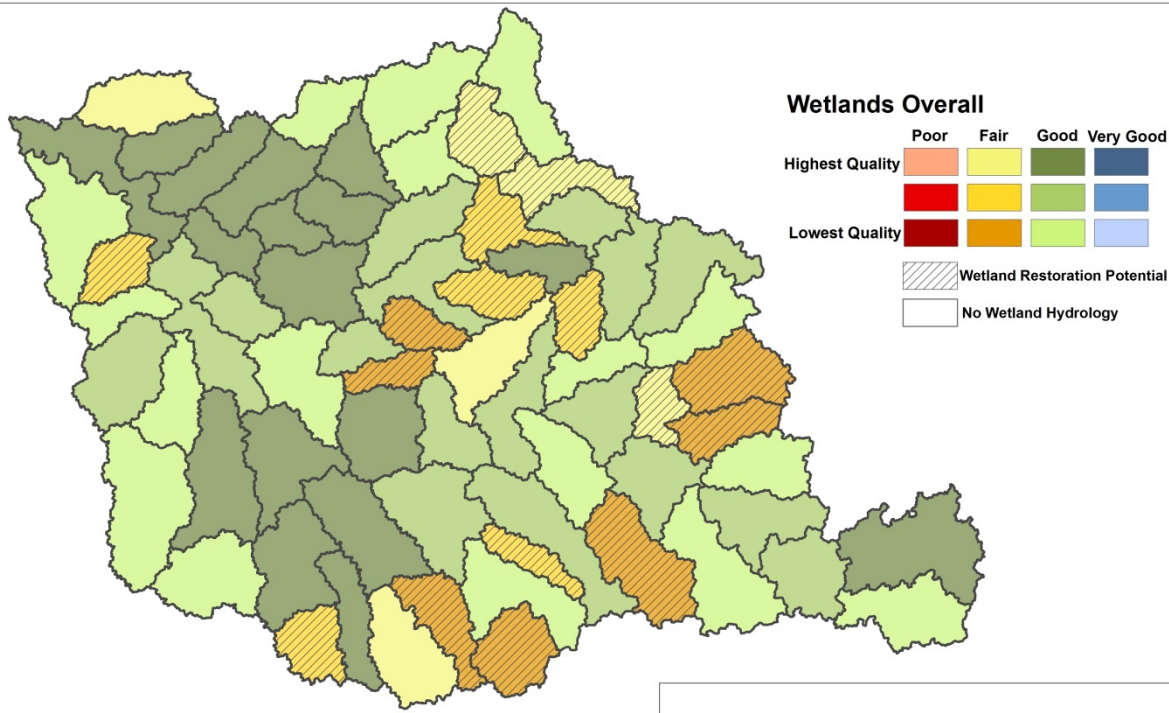


**Land Use/
Land Cover
In wetland
catchment**

**Wetlands
Water
Quality**



Wetlands
Wetland
Habitat

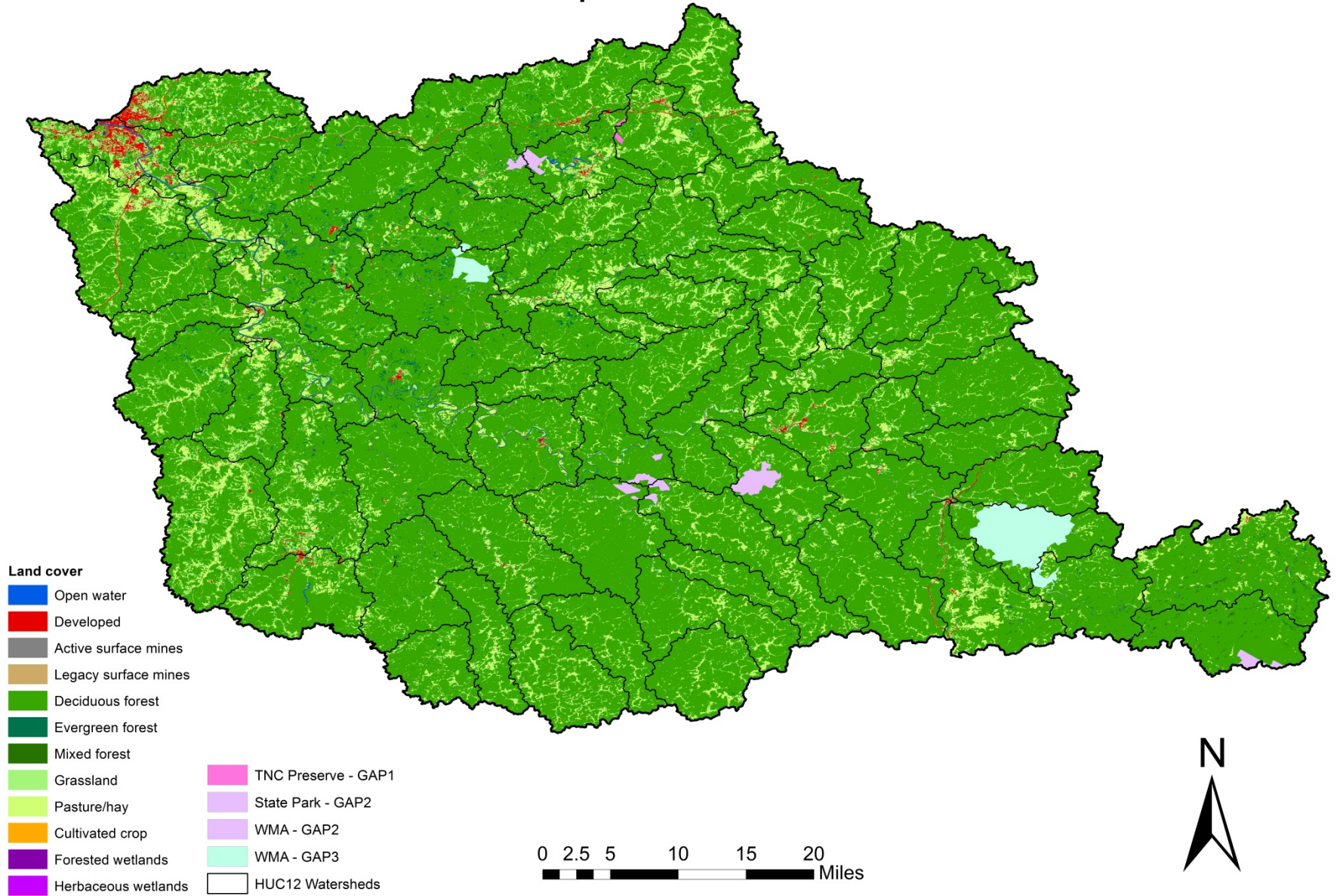


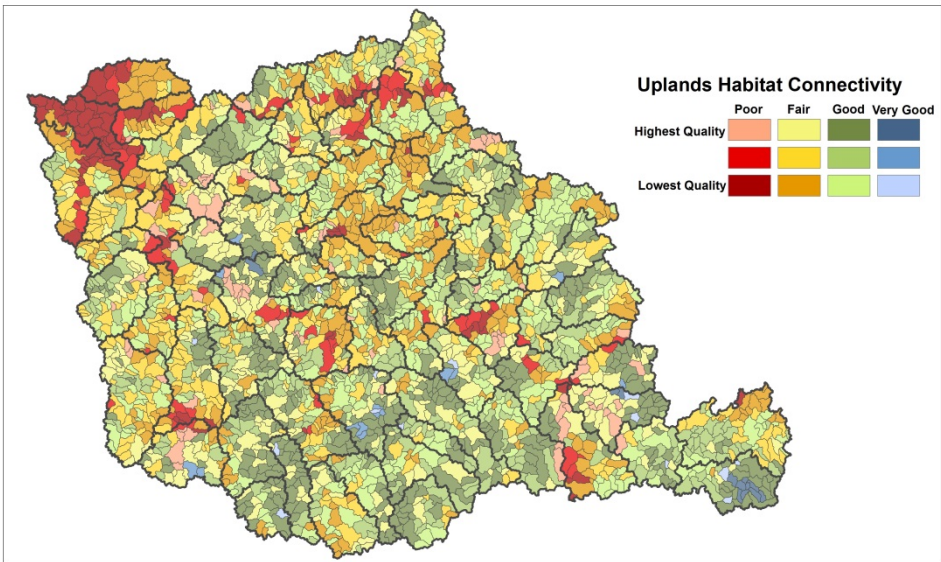
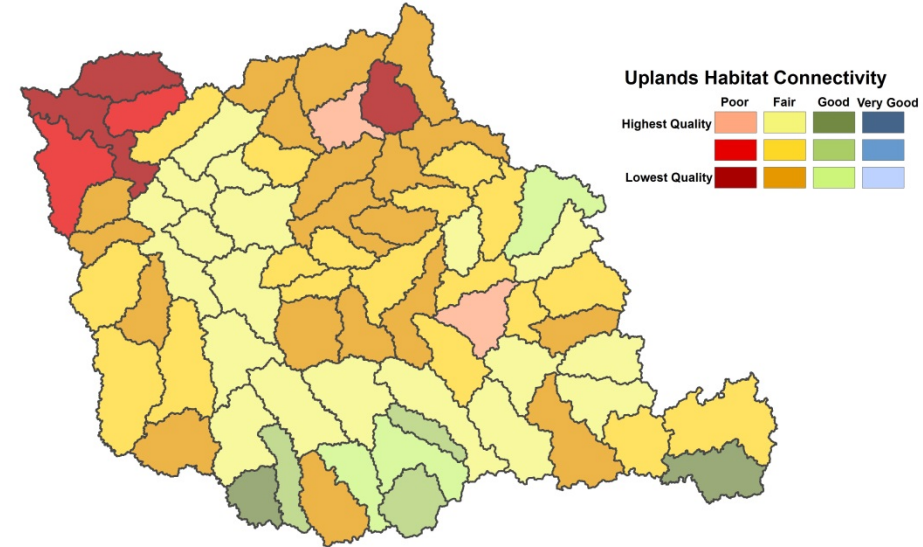
Wetlands
Model
Overall

Little Kanawha Watershed: Uplands

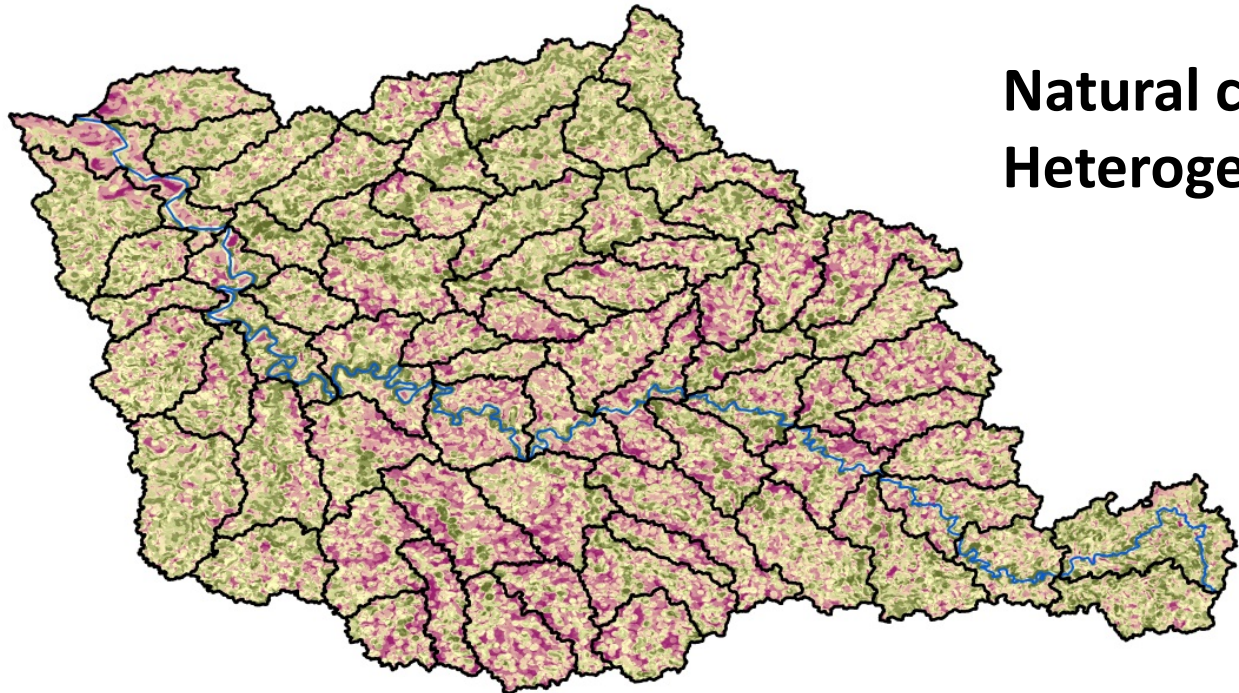
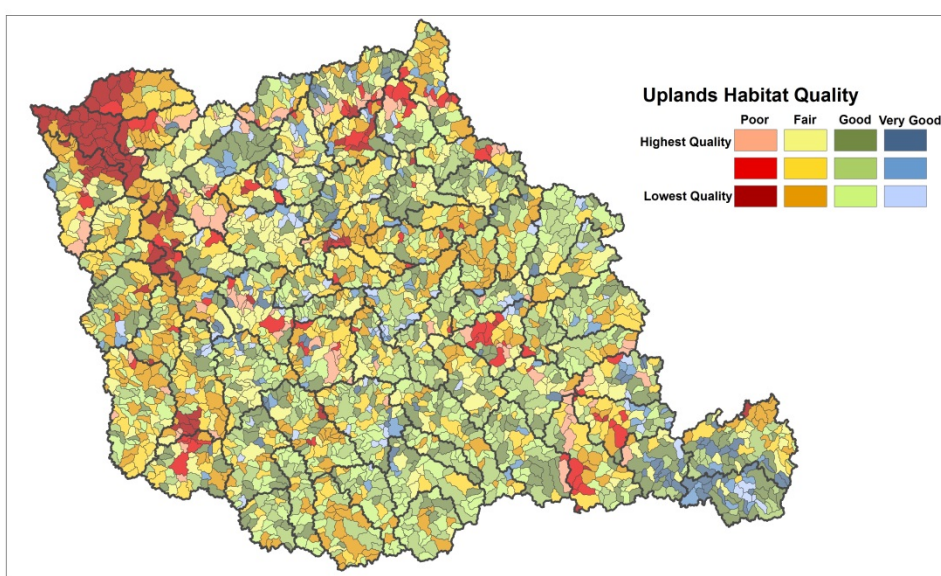
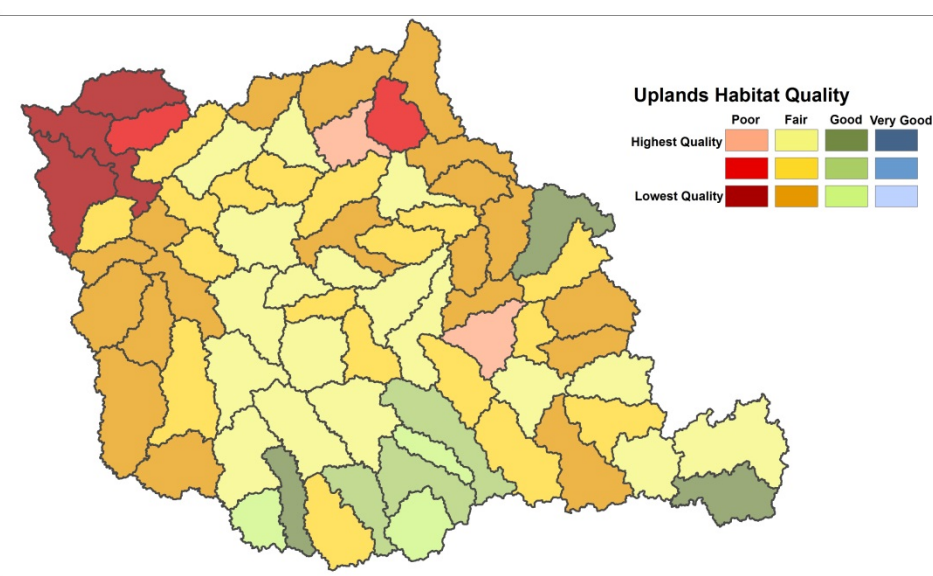


Little Kanawha Watershed Uplands Overview



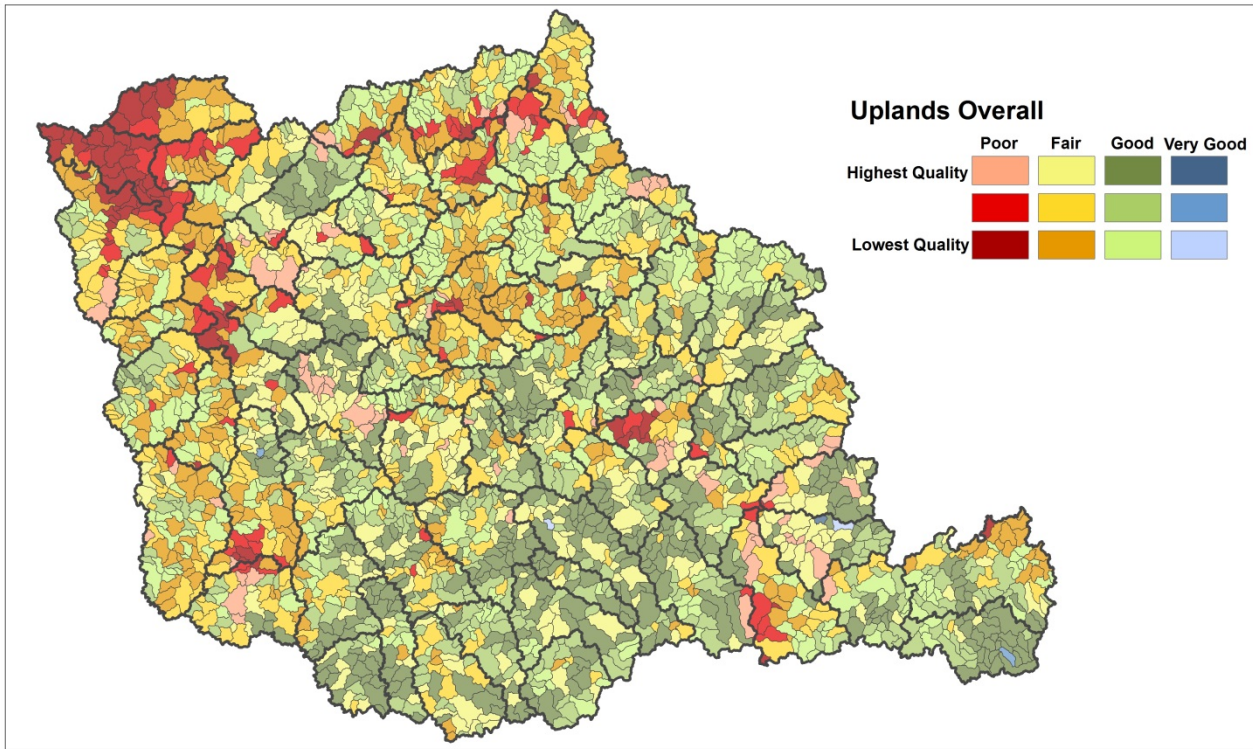
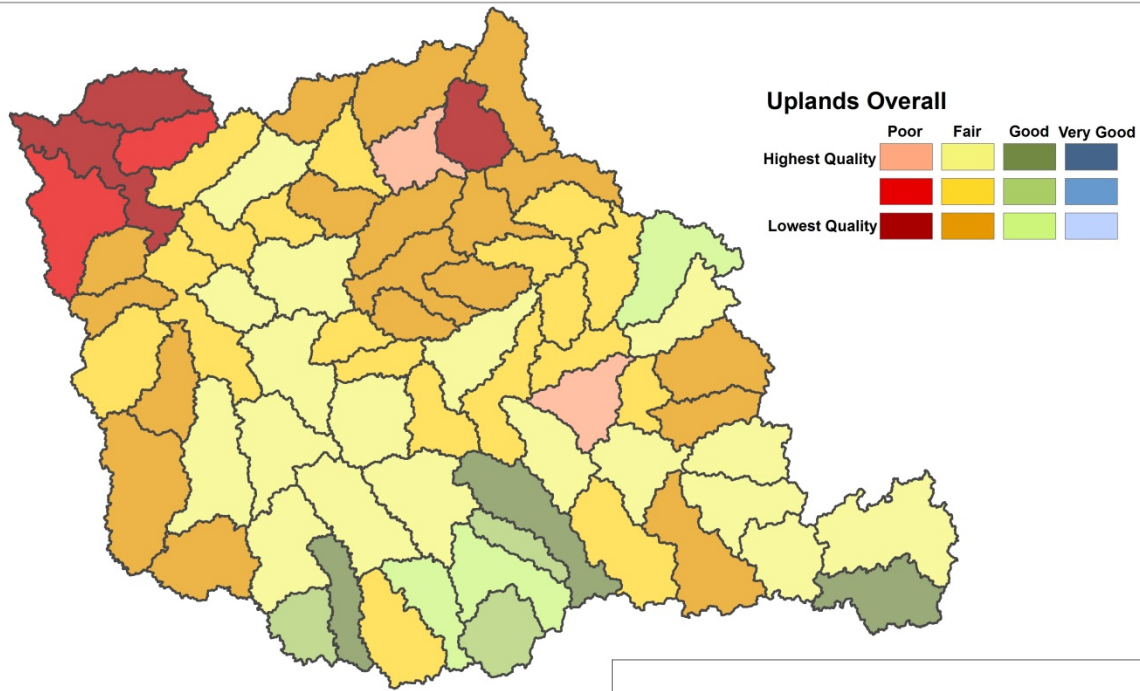


Uplands
Habitat
Connectivity



**Natural cover
Heterogeneity**

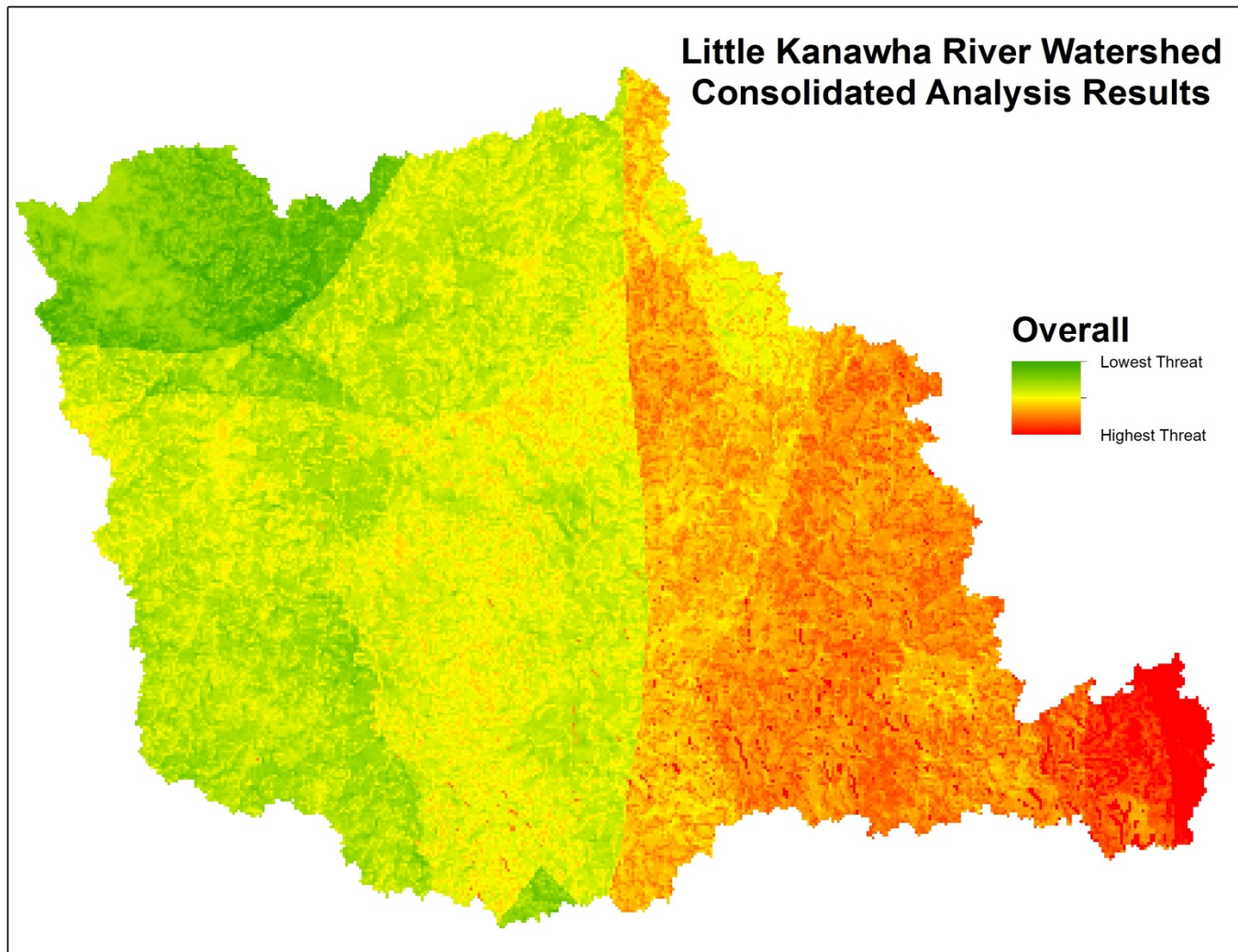
**Uplands
Habitat
Quality**



Uplands
Model
Overall

Little Kanawha Watershed: Consolidated Analysis

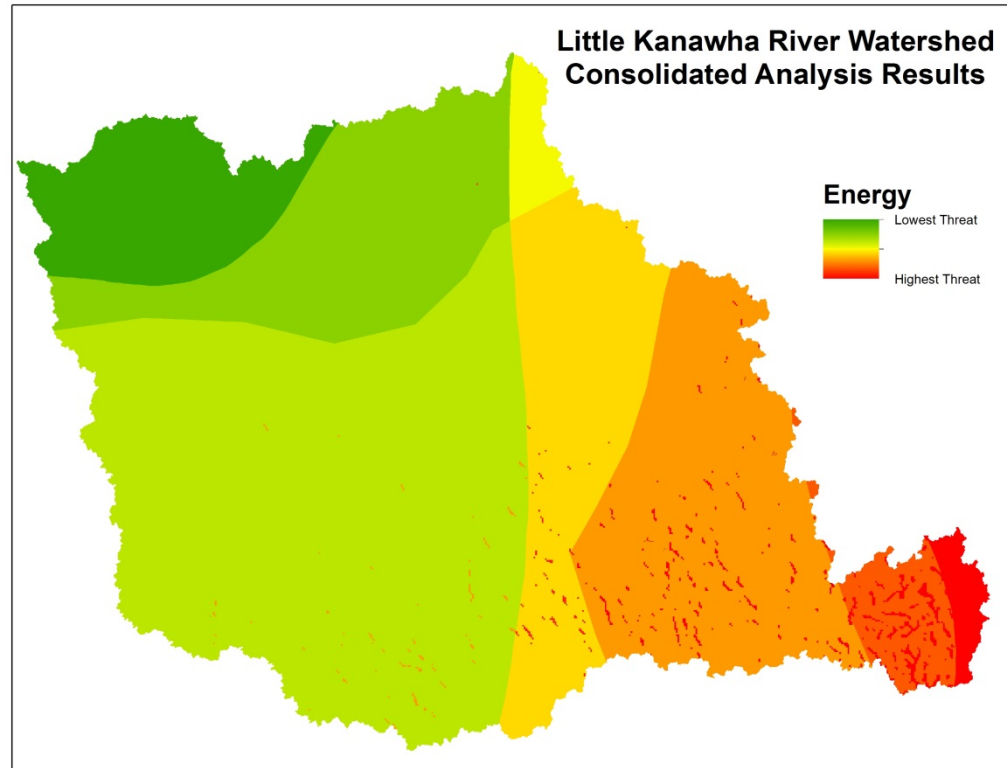
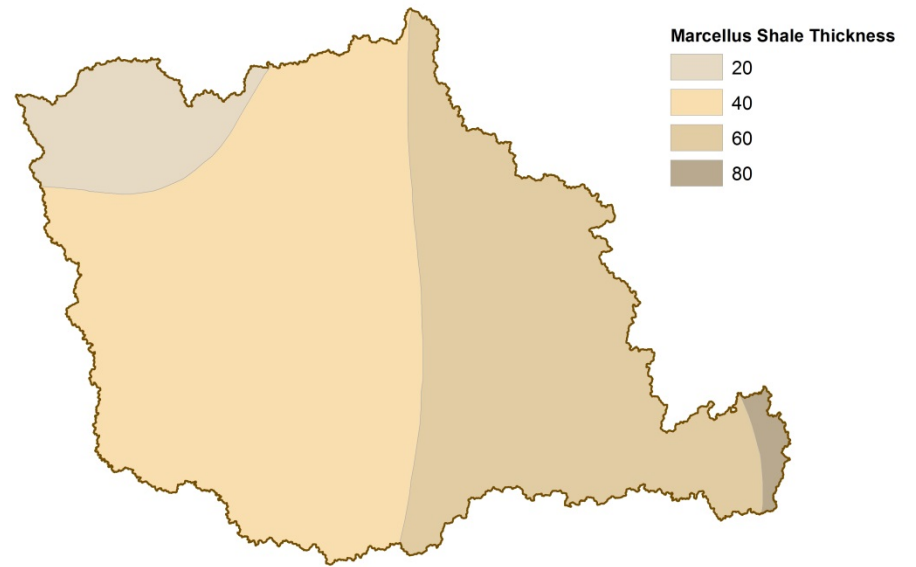
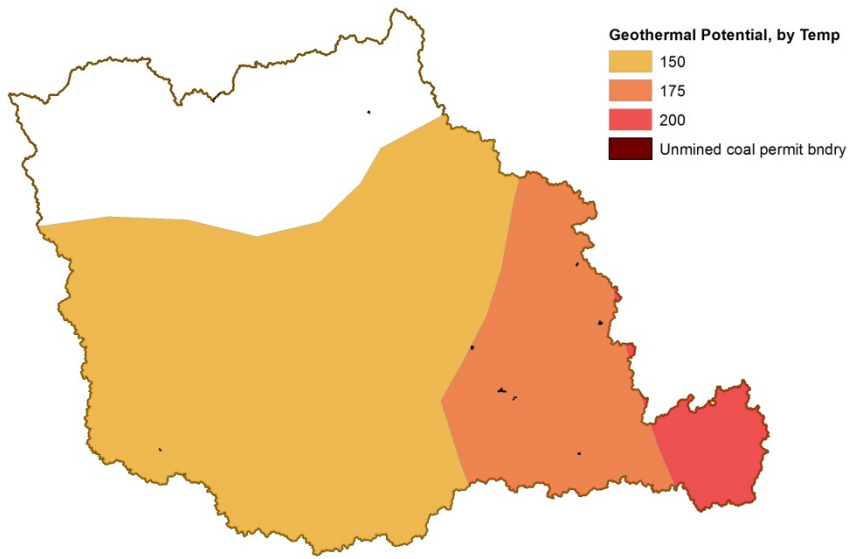




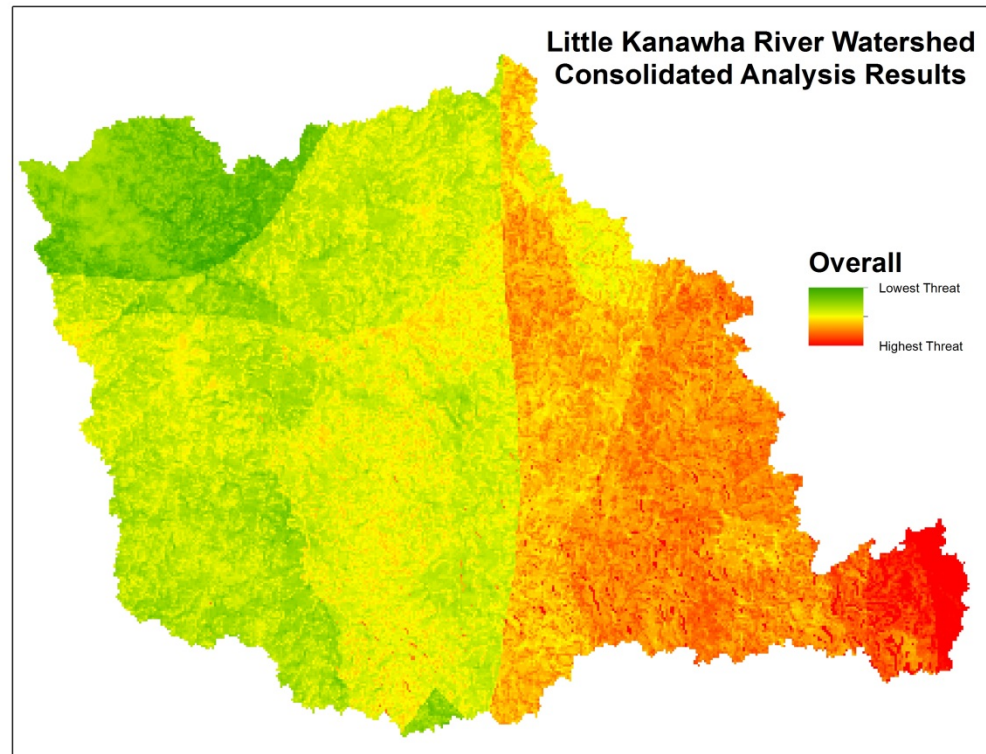
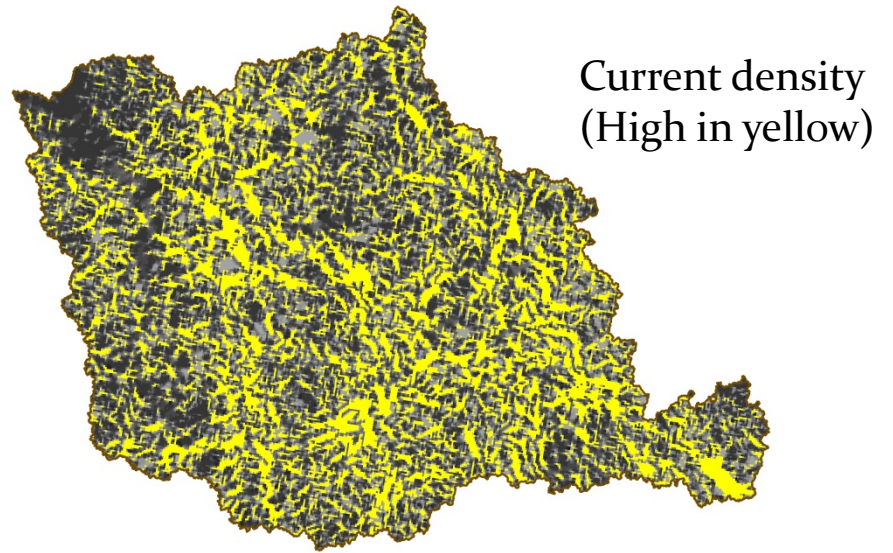
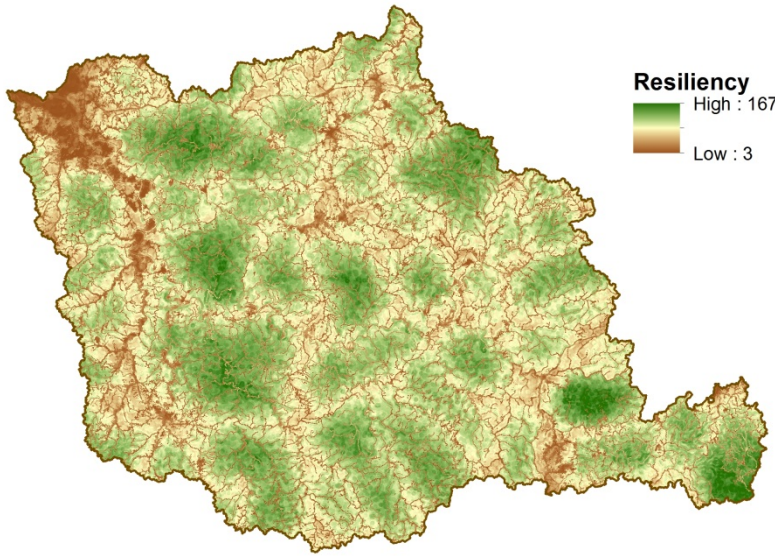
Consolidated
Analysis
Overall

Energy: Unmined coal, Marcellus shale thickness, Wind development potential, Proposed transmission lines/pipelines/power plants/wind, Geothermal development potential

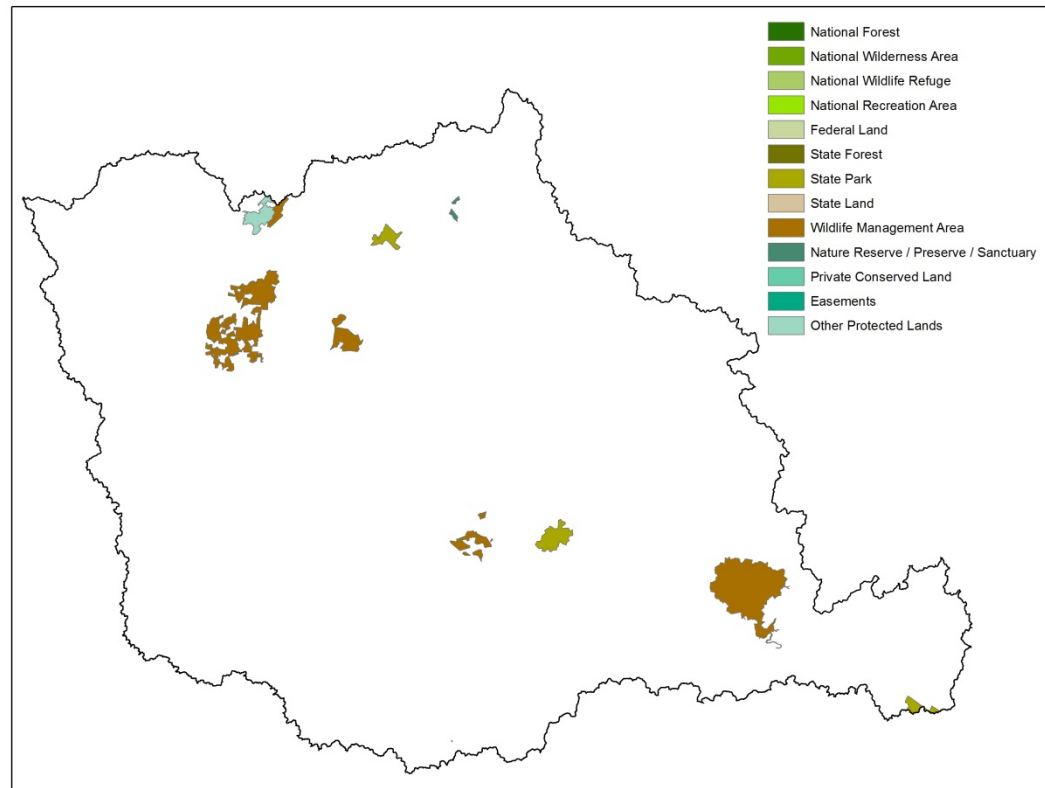
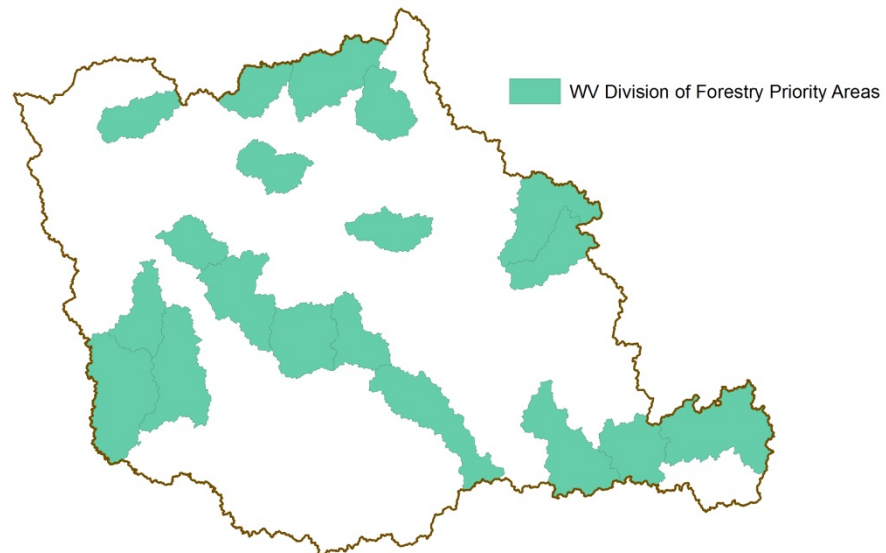
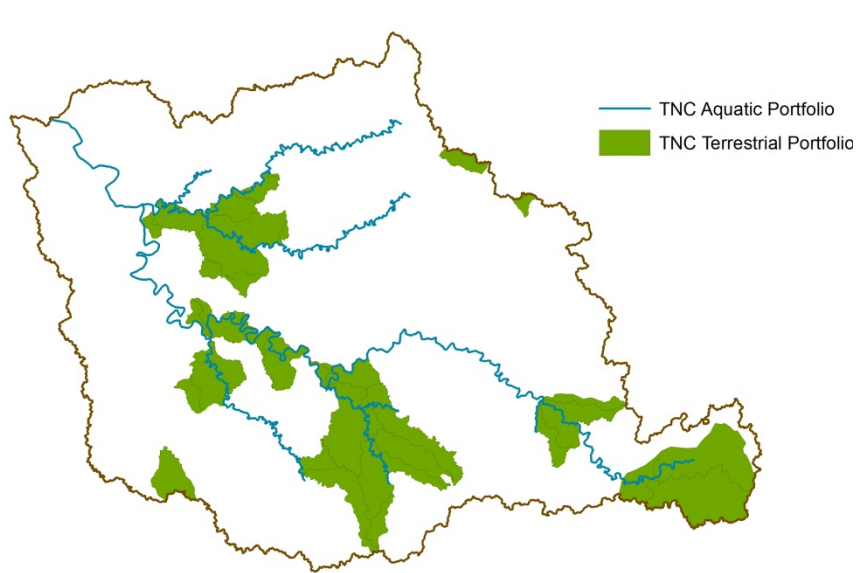
Climate Change: TNC Resiliency & Current density models



Consolidated
Analysis
Energy



Consolidated
 Analysis
 Climate Change



Consolidated Analysis Opportunities

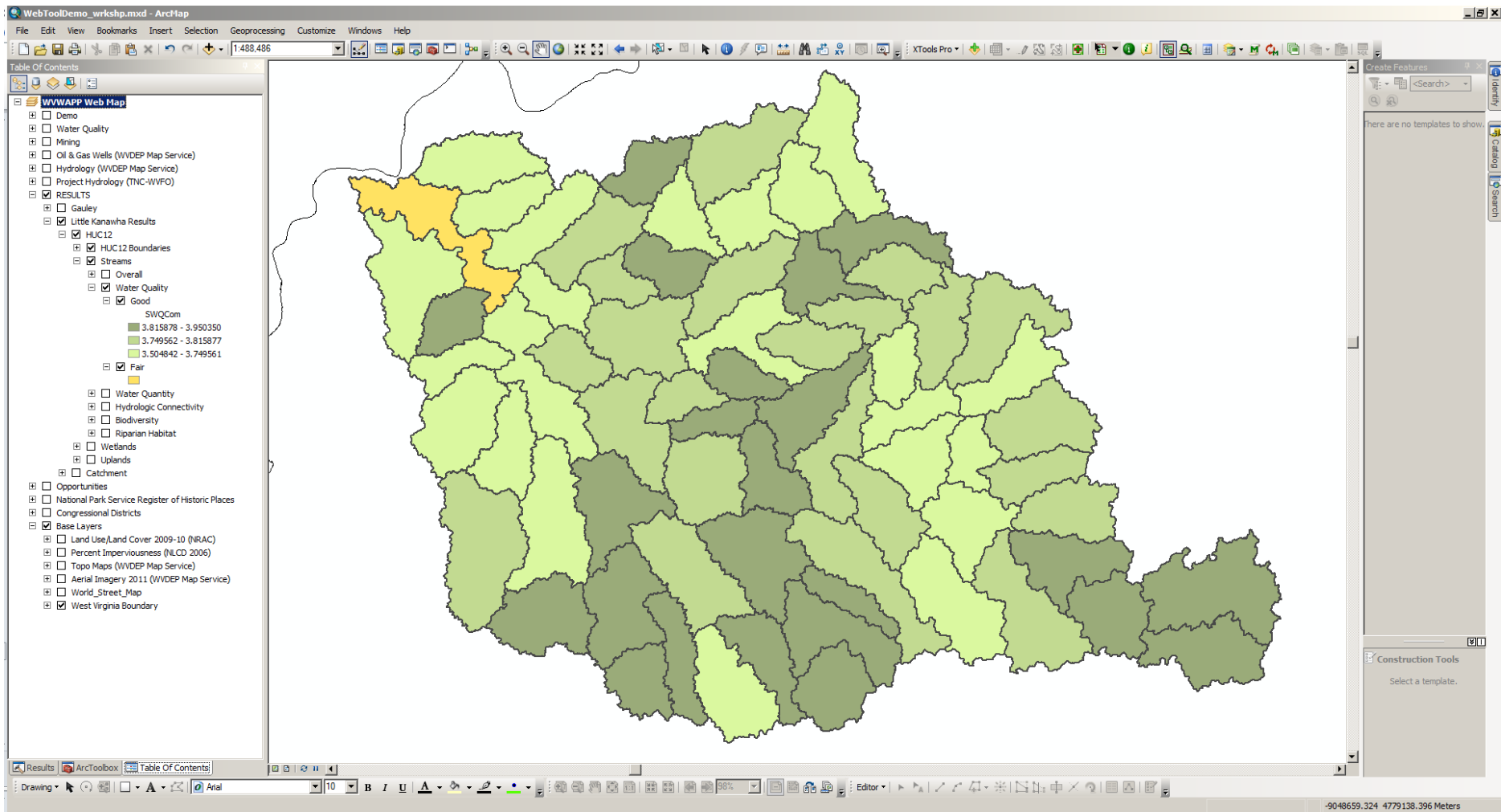
Web Map Tool Demo



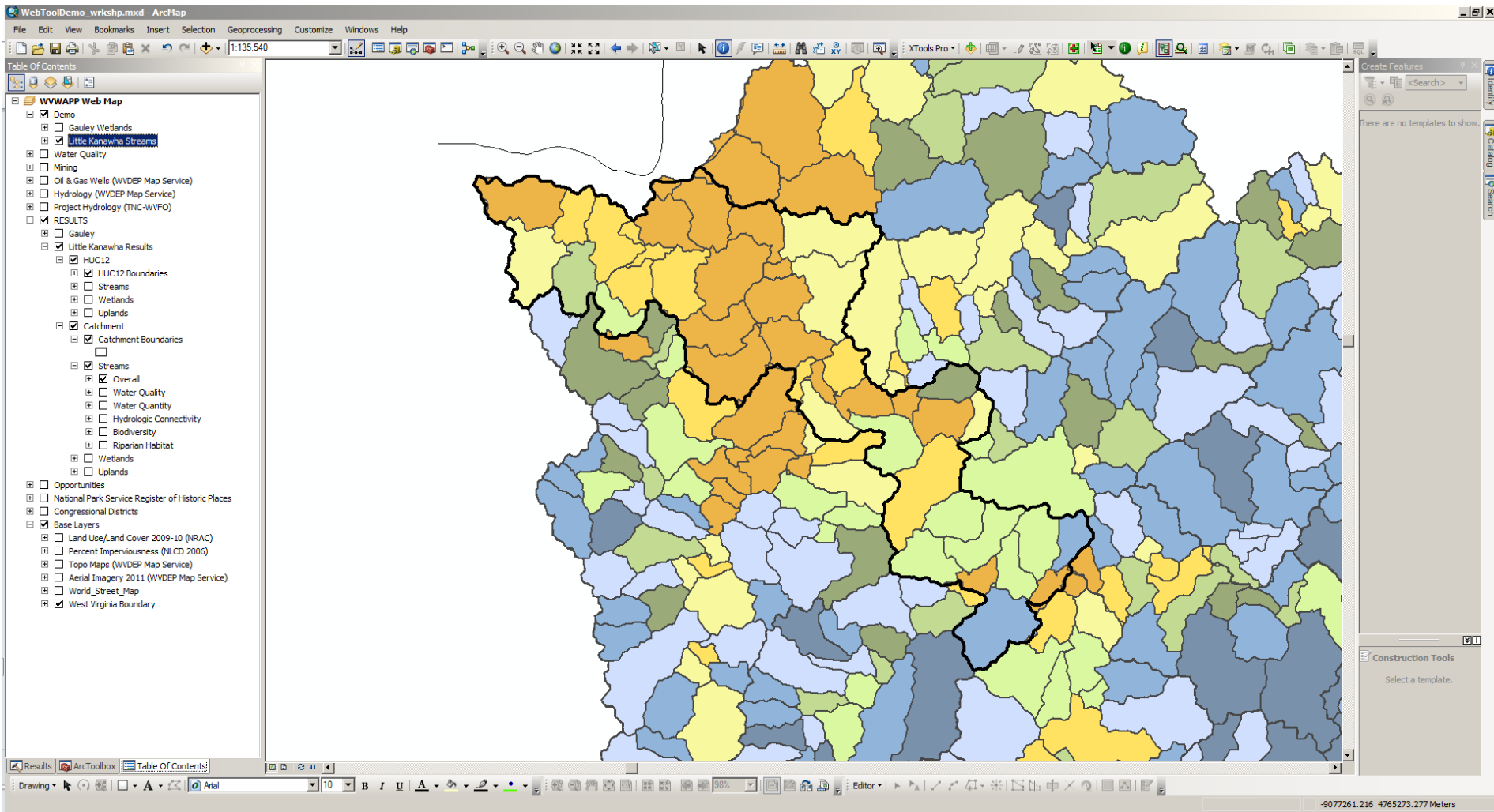
Potential Use Scenario

Little Kanawha River Watershed
Streams Restoration

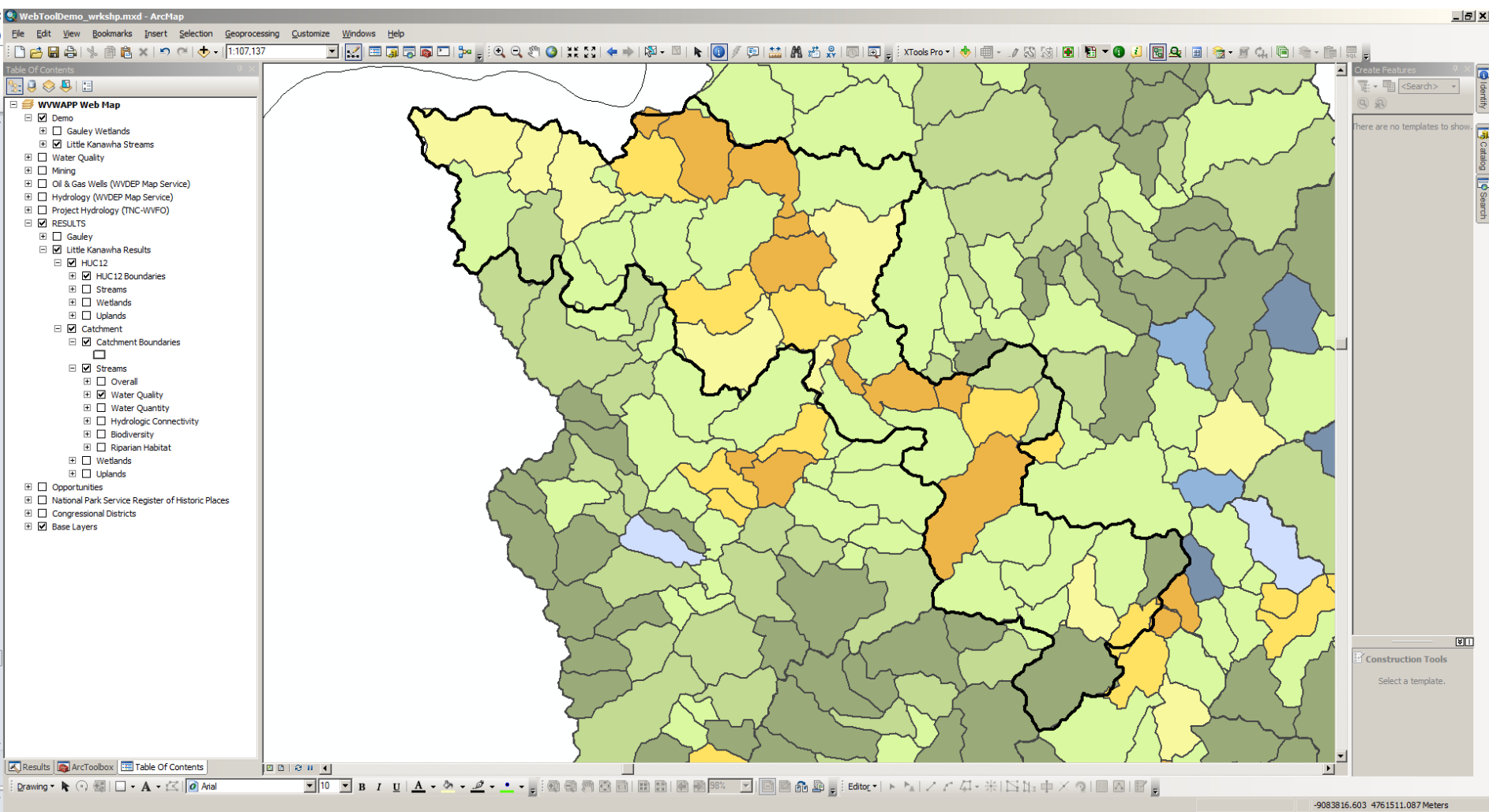




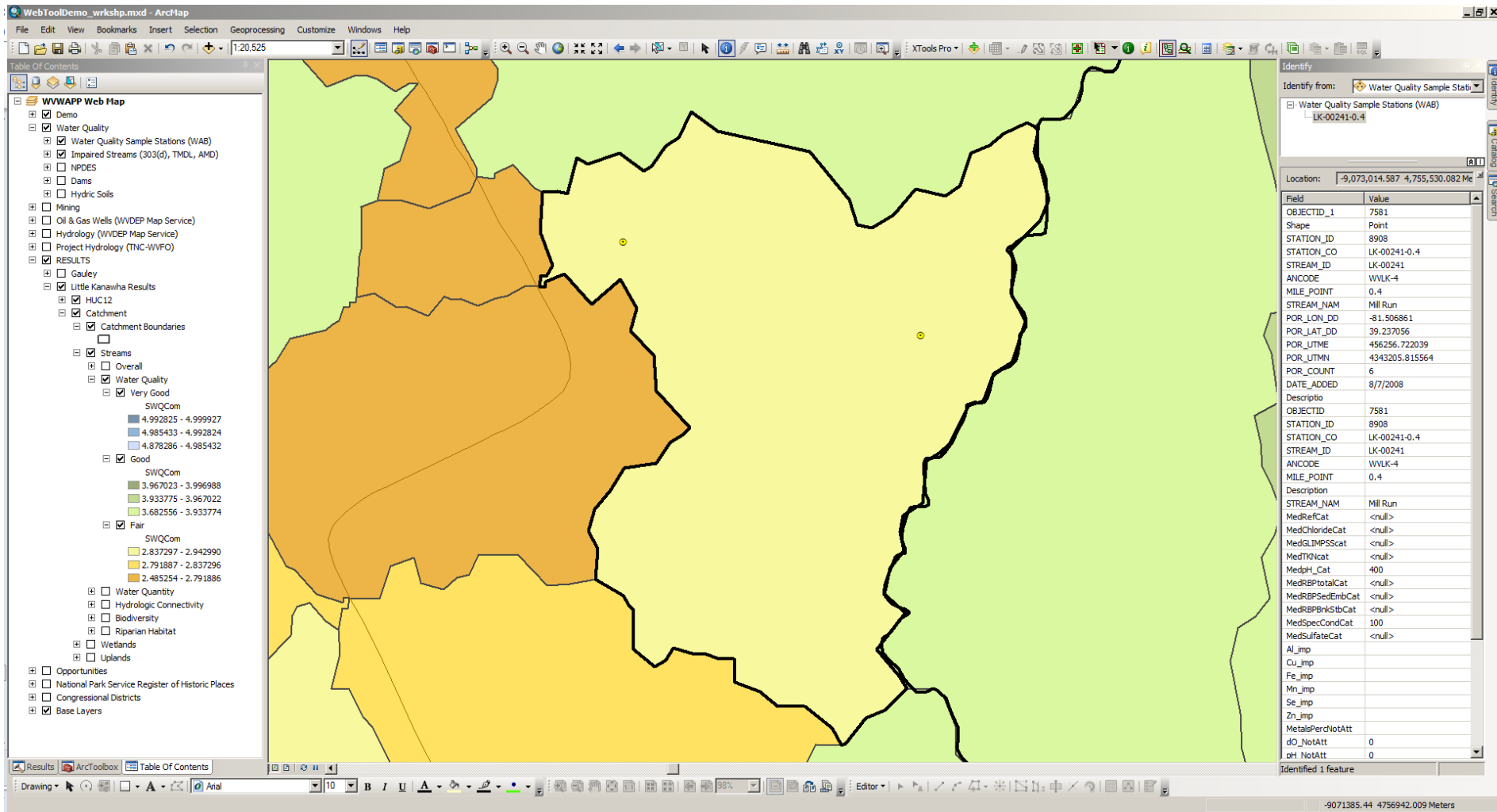
Little Kanawha River Watershed – HUC12 Level
Streams Water Quality Results



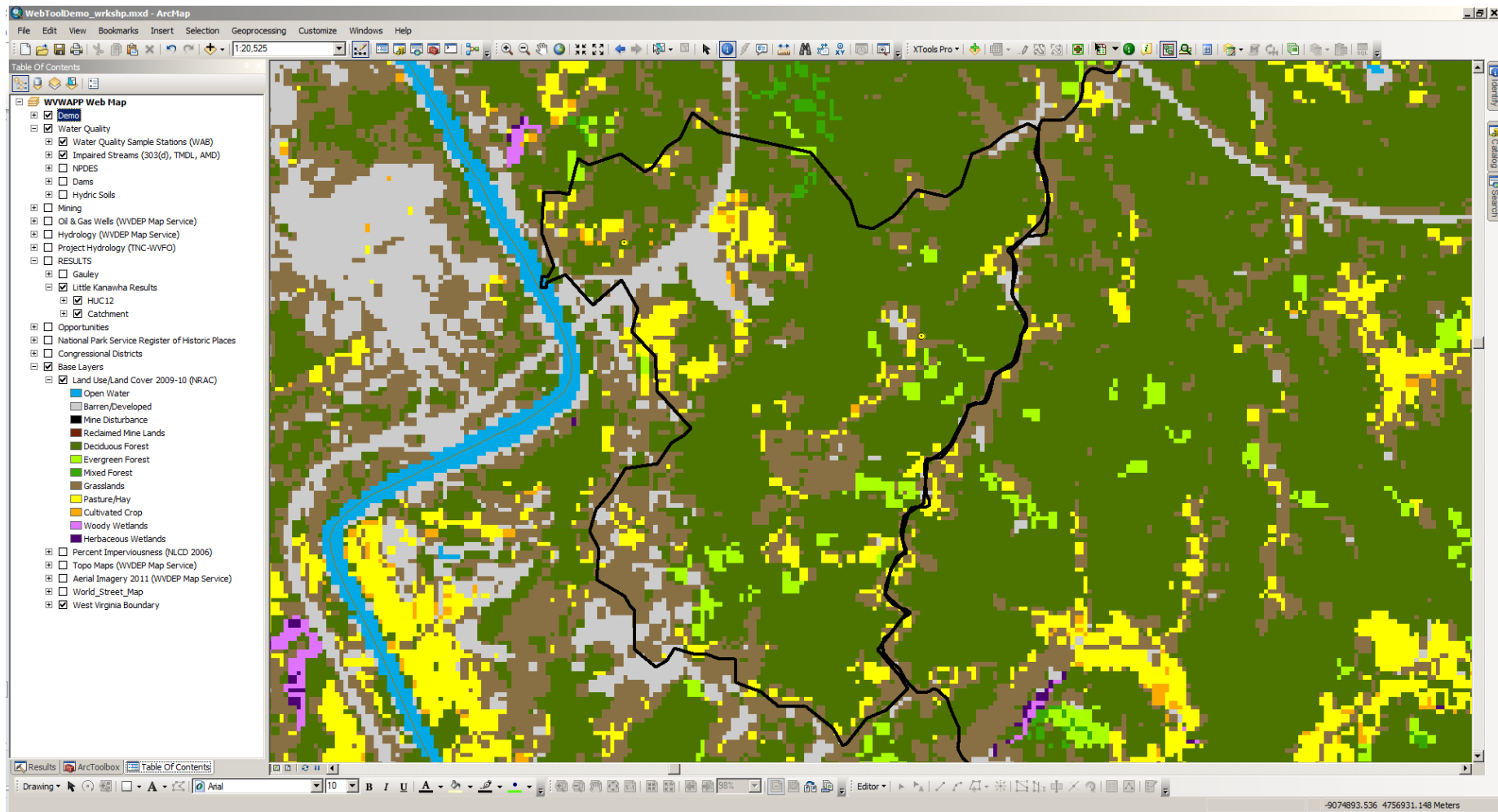
Little Kanawha River Watershed – Catchment Level Streams Overall Results



Little Kanawha River Watershed – Catchment Level Streams Water Quality Results



Little Kanawha River Watershed – Catchment Level
Streams Water Quality Results
WQ Sample Stations w/ attributes; Impaired Streams



Little Kanawha River Watershed – Catchment Level
Land Use/Land Cover 2009-10 (WVU-NRAC)



COMMENTS/QUESTIONS?