### Exploring Land-Use Land-Cover (LULC) Coverage Map

1. How many LULC classes are in the watershed according to each coverage layer (historical and 2001)? Identify and list the classes for both layers?
2. What is the dominant LULC category in the watershed according to each coverage layer (historical and 2001)?
3. Cross-check (verify) the LULC coverage against what you see in the satellite image layers photos. Do they fully agree? Try to identify examples of agreement and disagreement.(copy and paste a few samples)

Which of the LULC coverage’s agrees more with the satellite image?

1. What is the main land-use change that occurred between the more recent 2001 LULC versus the historical LULC?

OPTIONAL (FOR FRESHMAN CLASS ONLY)

1. One important parameter that controls the flow of water over land is the Manning roughness coefficient (n). Use your hydrology textbook (or any other online resources) to estimate a typical range of the surface roughness manning coefficient (n) for the following land-use categories (residential, cropland and forest).