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# Land Capacity Analysis for the City of Tacoma

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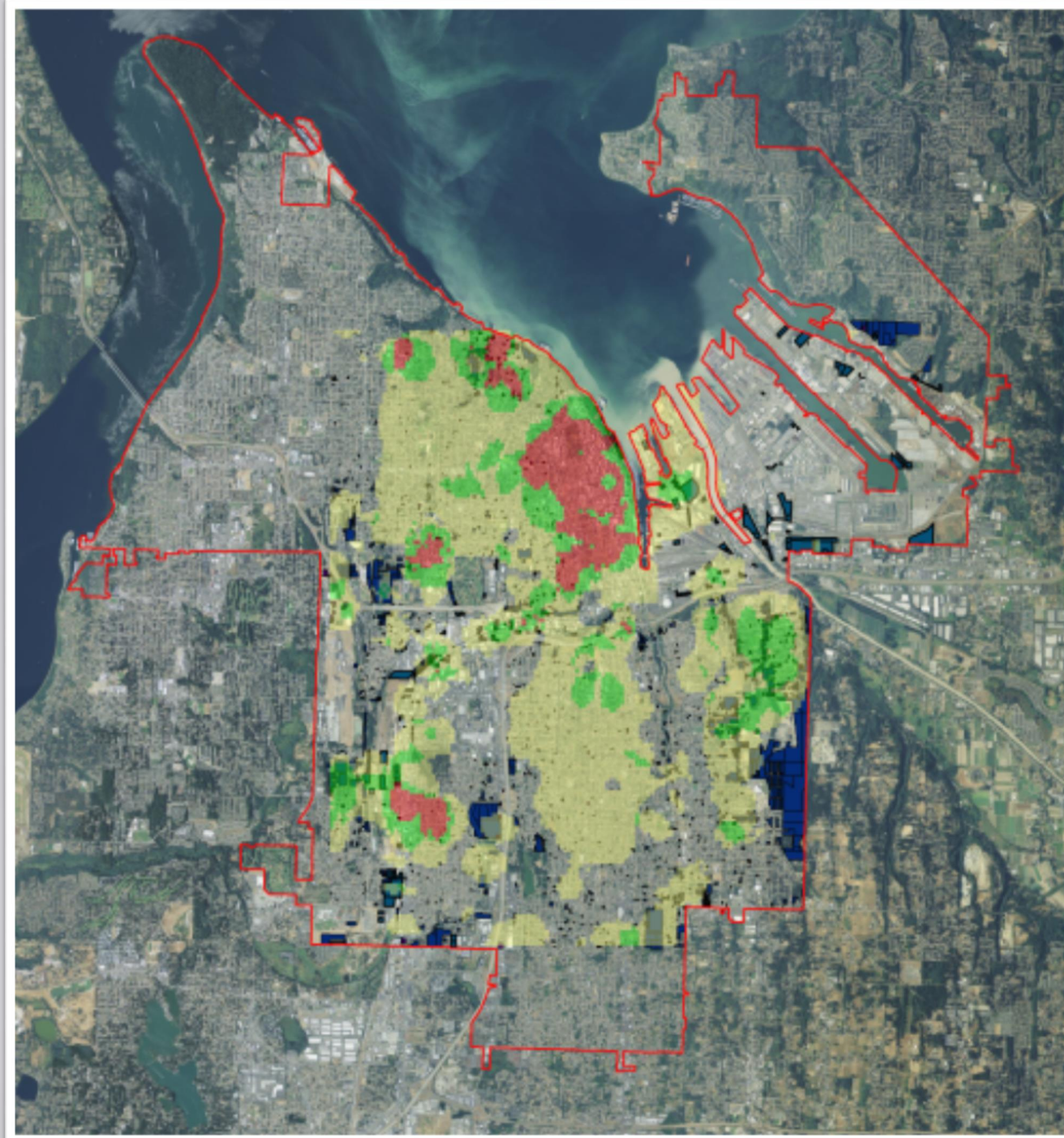
The mixed use center and final layout was produced by adding all unused parcels, population, hospitals, schools, commercial, and industrial data in the raster calculator.



**Residential**

Secondary Locations
Ideal Primary Locations
Unused Residential Parcels

0    1    2    4 Miles
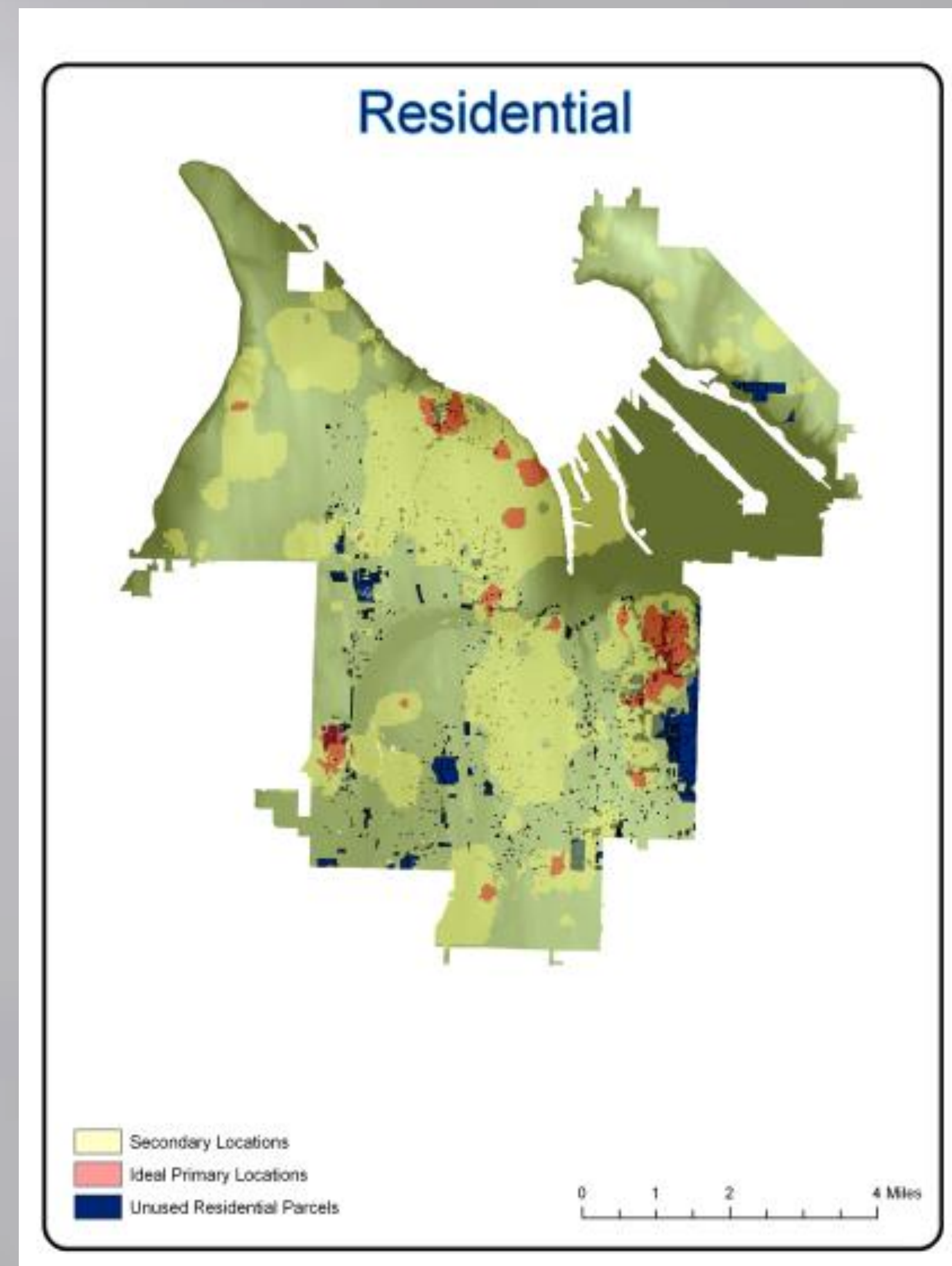
The residential map  was created by adding the population with unused residential parcels.

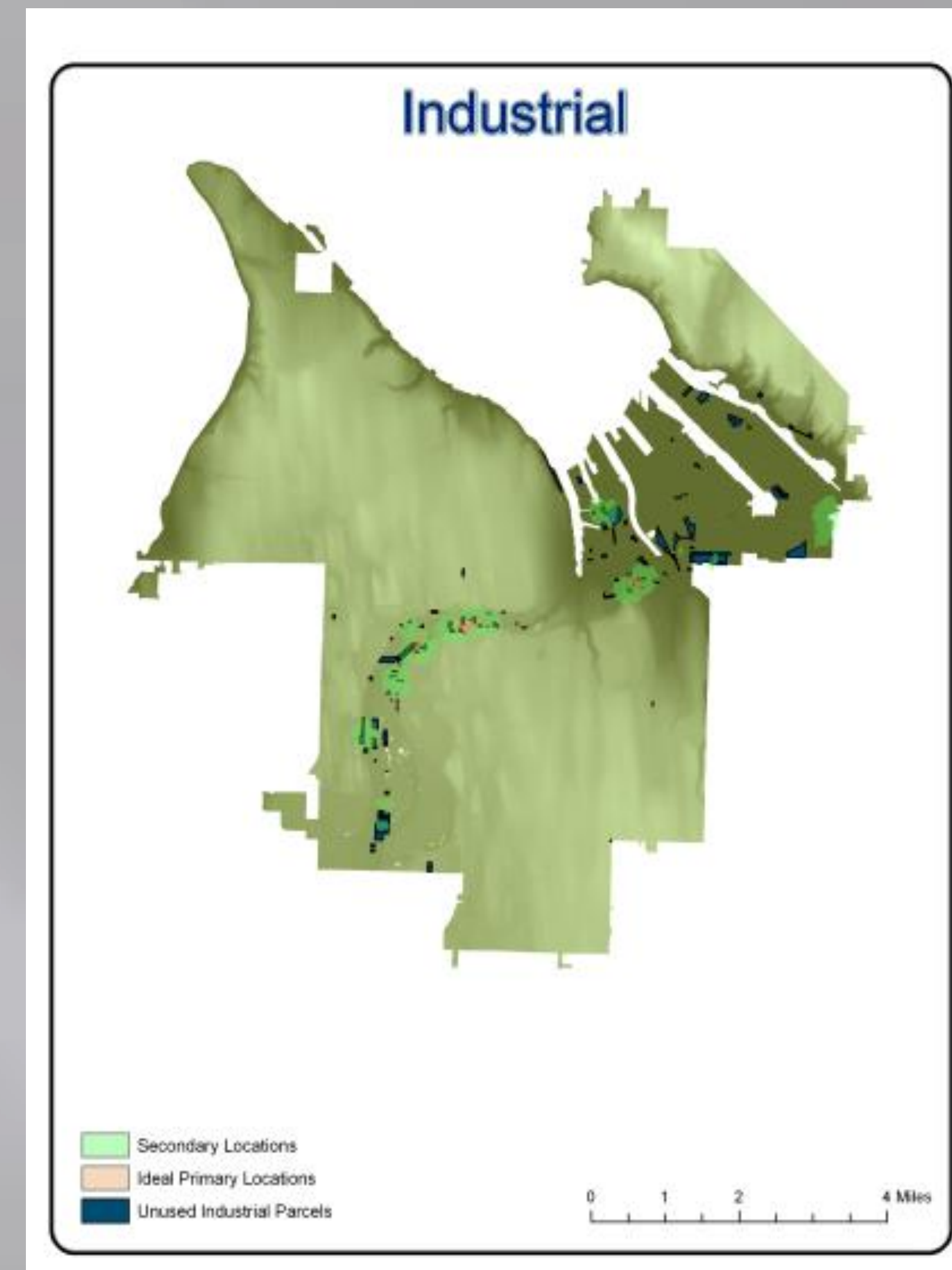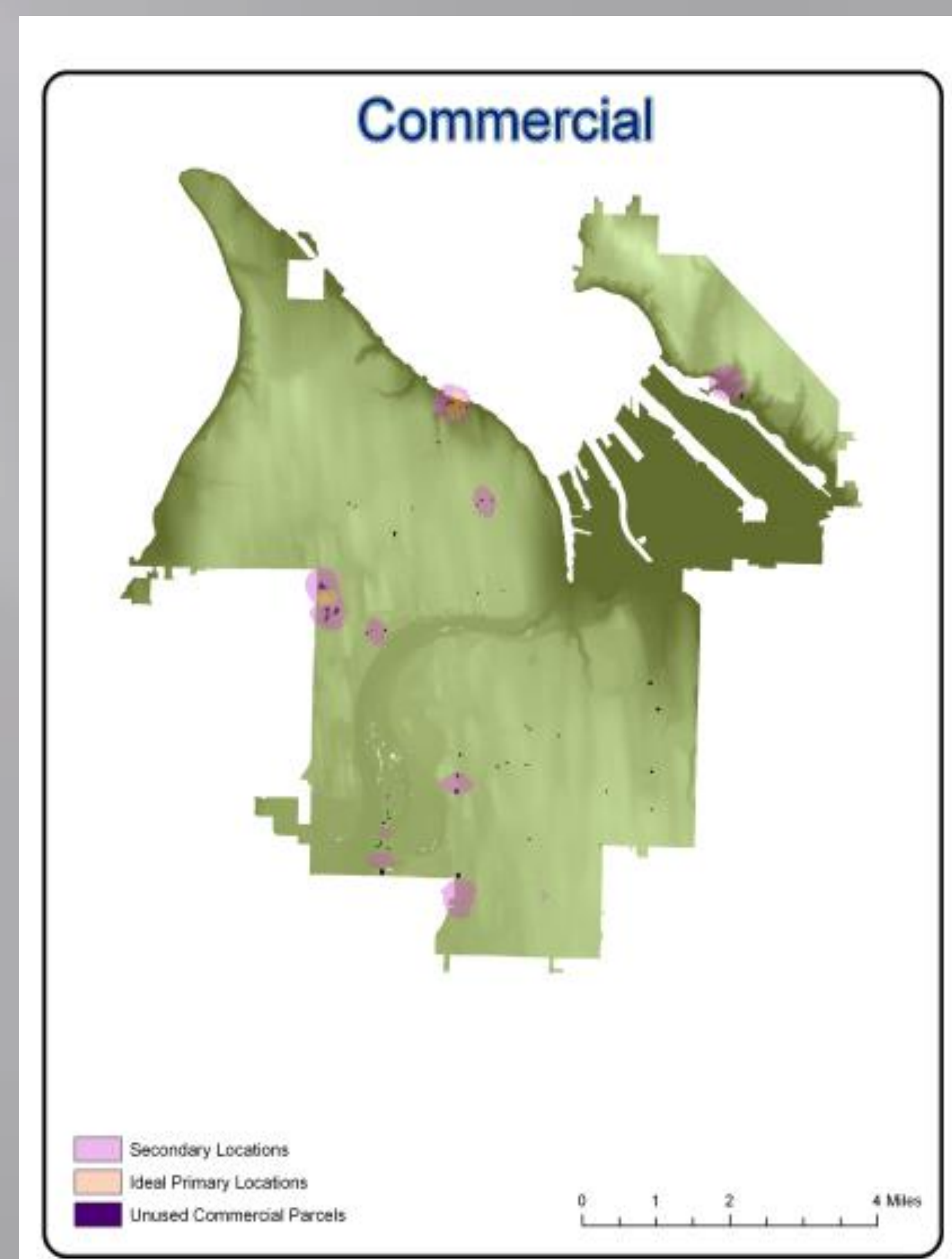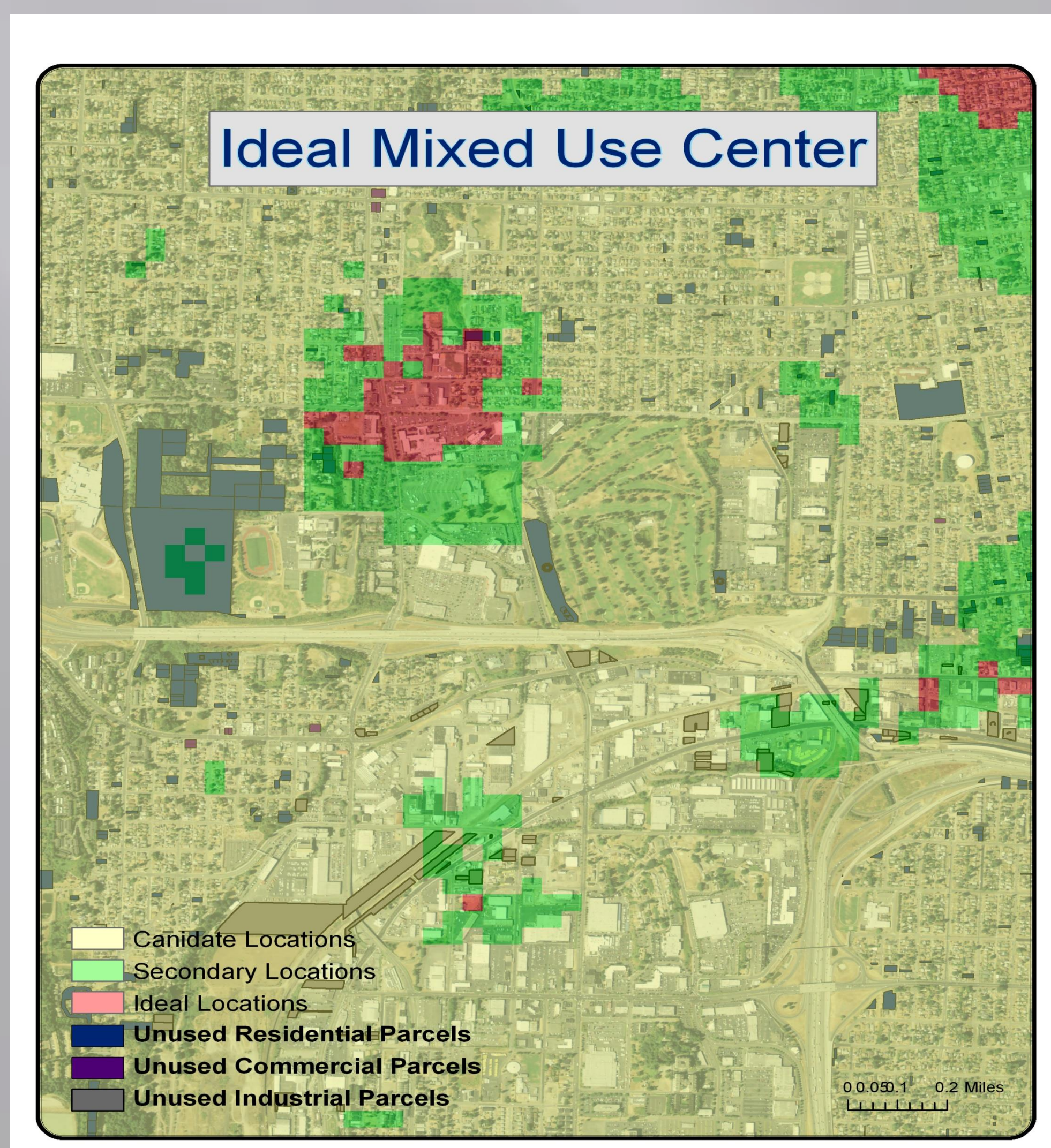

**Industrial**

Secondary Locations
Ideal Primary Locations
Unused Industrial Parcels

0    1    2    4 Miles

The  industrial map was created by adding population data with unused industrial parcels

## Methods

The purpose of this analysis was to determine which land parcels in the City of Tacoma are unused.  The information used was collected from a shape file that can be found on the on City of Tacoma website, the parcel population data was collective from WAGDA.  These three shapefiles were used in all my data analysis.  To begin all the parcels were compared to the zoning shapefile to find parcels that were not in the proper zone. The three zones and parcel categories were residential, commercial, and industrial.   After the analysis was finished all the unused parcels were given a classification by using density analysis.   For the final product, the unused parcels have been classified by using the raster calculator to determine the best possible use for the parcels.



**Ideal Mixed Use Center**

Canidate Locations
Secondary Locations
Ideal Locations
Unused Residential Parcels
Unused Commercial Parcels
Unused Industrial Parcels

0 0.050.1      0.2 Miles



**Commercial**

Secondary Locations
Ideal Primary Locations
Unused Commercial Parcels

0    1    2    4 Miles

The commercial map was created by adding the population with unused commercial parcels.

## Purpose

The  purpose of this project  is to help with the reduction of sprawl.   The maximization of land capacity is outlined in the City of Tacoma Comprehensive Plan.    Identifying which parcels are clustered together and not being used and giving them a classification based on their attributes could  help city planners with the growing population.