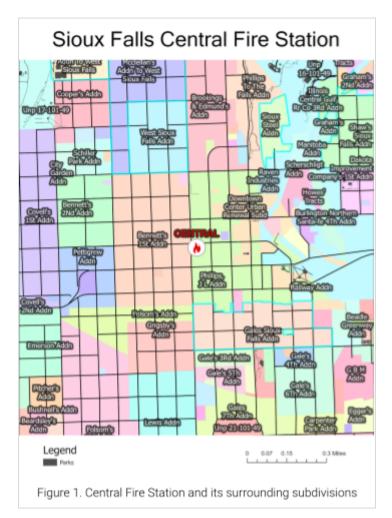
LAB 1

INTRODUCTION TO GIS Professor Sarah Olimb

Soobin Rho February 9, 2023 Sioux Falls Central Fire Station



GIS Tools & Techniques Applied:

This is the first infographic I ever made using Pro. On my first attempt, subdivisions on the map were too populated to the point where the entire map was filled with just the subdivision names. Thus, with some advice from Professor Olimb, I decided to use `Labeling Properties...`, `Position`, `Remove duplicate labels' and 'Buffer' and 'Minimum feature size' to remove redundant data and therefore make the map more readable. Too much information, as we all know, leads to zero useful information for the target audience. Thus, I am extremely happy to have learned how to present the most important bits of the information in a concise and beautiful manner.

My favorite feature in this lab was `Halo symbol`, `Format polygon symbol...`, `Color Properties...` and setting custom transparency levels. This alone made the labels on my map look so much better than before.

Question:

Where is the Central Fire Station, and what are its surrounding subdivisions?

Methodology:

- Understanding the basic architecture of GIS.
- Learning how to view data attributes and to manipulate the data to gain better insights.
- Practicing the core functionalities of ArcGIS, including map navigation, attribute tables, data labeling, data query systems, layout features, and layout export options.

Conclusions: In this lab, I learned the basics of how to use GIS. The most interesting finding from this, for me personally, was that the Central Fire Station is located right beside the river. Coincidentally, my friends and I visited this exact river area yesterday for dinner. So, I find this amusing. This map is not just shapes and texts of random data; instead, it's a useful lens into our real life, which we can use to gain valuable information that is useful for many areas of our lives.

Data Sources: This lab was based on `lab1_data.zip` which was provided by Professor Sarah Olimb.