



Geographic Information Systems (GIS)

Planning a Station Visit

Name: _____

Section: _____

Score: ____/5

Directions: Read the following Scenario and plan use the analysis function to plan a route to tour the Minneapolis fire stations.

Scenario:

As the GIS expert for the Minneapolis Fire Department the Fire Chief John Fruetel has asked you to help design a route to tour the existing fire stations in Minneapolis. He needs this route because he needs to take Minneapolis Mayor Betsy Hodges on her yearly tour of the stations. Use the Minneapolis Fire Stations map you previously made and plan out a route to present to Chief Fruetel.

Instructions:

1. Use the Analysis function of your Fire Stations layer to plan out your station tour.



2. Use the **Use Proximity-> Plan Routes** option to bring up the route planning side menu to actually plan your route.
Note: When running your analysis make sure you zoom your map out so that you can see all of the fire stations. Also check to see how many credits the analysis will require (it should only be 1).
3. Your route will show up on the map after ArcGIS has created it. You can click on the line and the pop-up will include a summary of the route
4. When finished save the map (with route layer, and proposed new station layer) and save it with the organization. Send the link in an e-mail to the teacher.

Tour Specifications:

- Tour must include all fire stations
- The Tour will begin and end at Minneapolis City Hall, 350 S 5th St #307, Minneapolis, MN 55415
- The Mayor has the tour scheduled for June 14th starting at 9:00 am.
- The Mayor would like to visit all 19 existing stations if possible
- The schedule needs to allow for between 15-20 minutes at each station for her to examine the station and talk to the fire fighters there
- The mayor has allotted the entire day for the tour, but she has a dinner at 6:00 she needs to be at.

Route Summary:

Estimated Total Time (minutes): _____

Total Miles Traveled: _____

End of Tour Time: _____