

Exploring Maps and Water in Flint, Michigan

1. What can you infer about the map legend here? In particular, what can you tell about the difference between homes in Flint having copper versus lead piping?
2. You are an environmental scientist trying to determine, with **mathematical modeling**, where homes in Flint, Michigan might have elevated lead in their water. You are looking at this section of a Flint map attempting to predict where you could color in homes with either high or known quantities of lead. Based on the image above, where would you begin? Can you explain your reasoning?
3. On April 22, 2016, the then-governor of Michigan, Rick Snyder, tweeted out this graph on Twitter. The tweet was quickly deleted. Can you come up with some mathematical issues with why this tweet may have been deleted so quickly?

Part 4: Family Water Interview (use notebook paper if additional space is needed)