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## GIS WEEK 7. March 9, 2009

### QUESTION 1: Five Unmatched Addresses Solved

#### 45 Richman Plaza.

I Googlemapped the address and saw that it existed. However, in ArcGIS when I went to "select by attributes," clicked on streets, and clicked on "get unique values," I saw that Richman Plaza was not on the list. I then reference the GoogleMap and saw that Richman Plaza is an extension of Matthewson Rd, south of the Roberto Clemente Bridge.

Back in ArcMap, selected the streets that intersect with it Matthewson Rd, This resulted in a few streets highlighted, including what looks like Richman Plaza (as per the googlemap). I used the identify tool, to find that the highlighted street is MacCracken Ave.

I then googlemapped MacCracken--the pin is on Richman Plaza! Matched 45 Richman Plaza to 45 MacCracken Ave.

#### 1965 University Boulevard, 10453

Though unmatched, there were five candidates for this address, none of which have any address numbers. I googled the address, and saw that University Boulevard is also Dr. Martin Luther King Boulevard. I searched for that in the LION attribute table, and saw that it is listed as DR M L KING JR BLVD. I then modify the address in the Match Interactively table

#### 2048 McGraw Ave, 10462

In the LION data, there is a space in Mc Graw. I modified this in the Match Interactively table.

#### 37 Bedford Park Blvd W. 10468

Though unmatched, there were a number of suggestions for this address. The only one within address in the correct address range (31-199) is Bedford Park Blvd (no W). I googlemapped that, saw that it is to the west of Jerome Ave.

In ArcGIS, I selected by attributes for Bedford Park Blvd and noticed that the street highlighted included what google calls Bedford Park Blvd W.

Choose the candidate with the 31-199 address range and matched.

#### 117 Featherbed LN # E, 10452

I looked up the street in the LION attributes table and noticed that the abbreviation for lane is LA not LN. I noticed that one candidate has the address range of 99-117. This is what we want. To double check, I selected it, zoomed to the selection, and saw that it matched up with the googlemap results.

In the modify address panel, I change the street to "FEATHERBED LA" with no street type, and get offered some candidates. I match with the one with the 99-117 address range.

## **QUESTION 2:**

**Besides having better addresses matching – what are some other noticeable differences between the LION file and the census data file?**

There are more lines in the LION file, like lines through the park, and alleys.

There are also way more fields in the LION file, including things like traffic direction.

## **QUESTION 3:**

**Create a Map that shows the number of laundromats in each CSO.**

See page 3.

**Are the CSOs with the highest density of points being represented with the highest symbology value?**

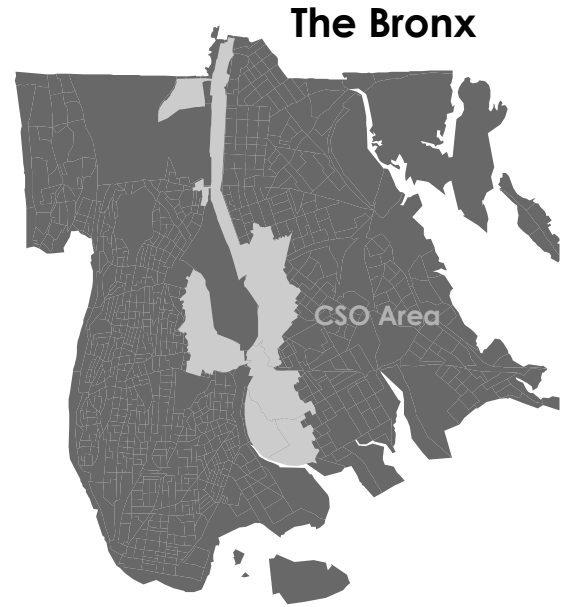
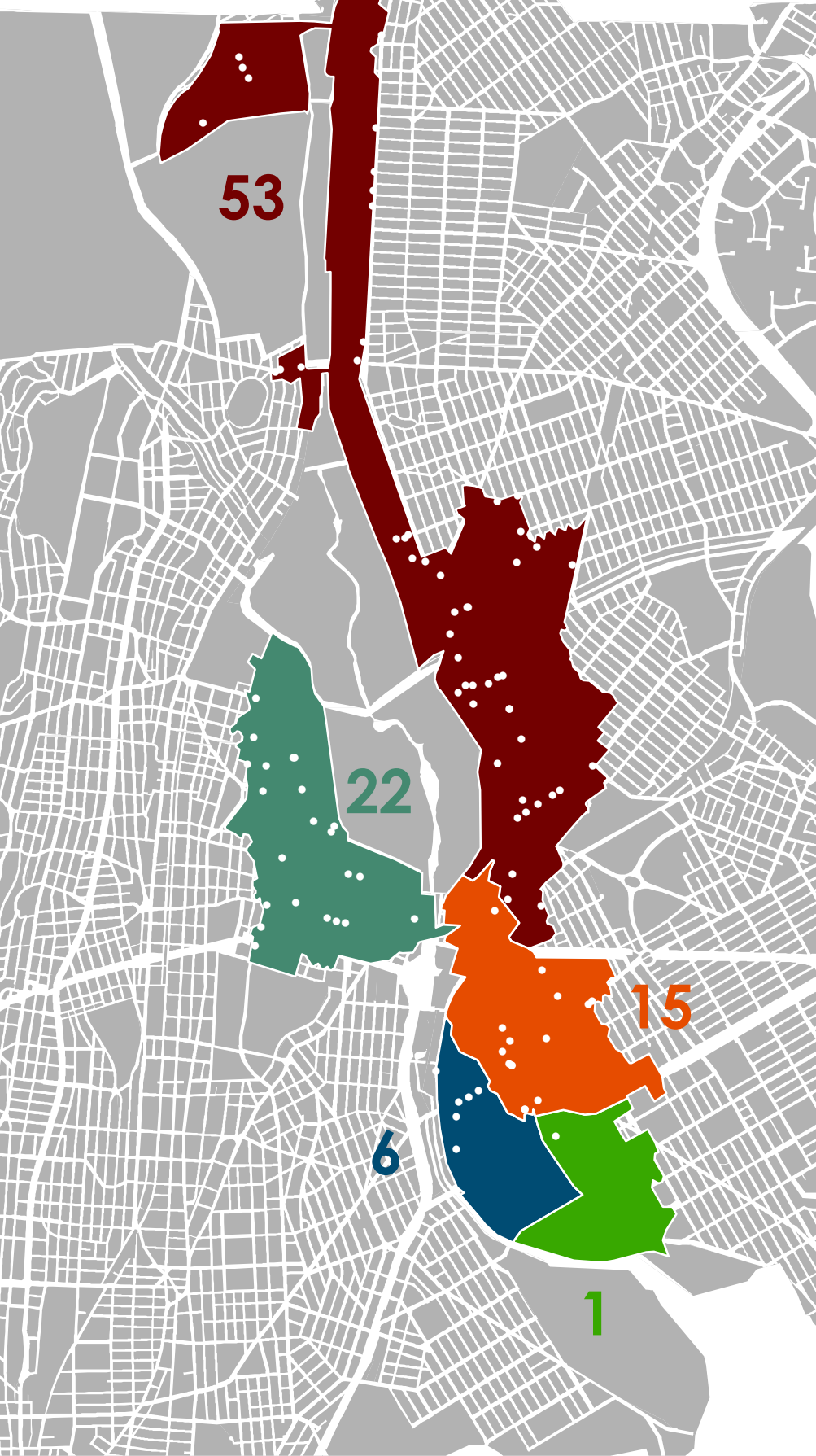
Not in this map, no.

**How would you create a map that showed the density of laundromats in the CSO sewer sheds so that the symbology would show areas with the highest density?**

I would divide the number of laundromats in each CSO by the area of the CSO, to find the number of laundromats per square foot. With this data in a new field, I would use a gradient to display the various densities of laundromat per CSO.

To test this approach, I made a map that includes the density. Please see page 4. It shows that the CSO with the most laundromats is not the same as the CSO with the highest density of laundromats.

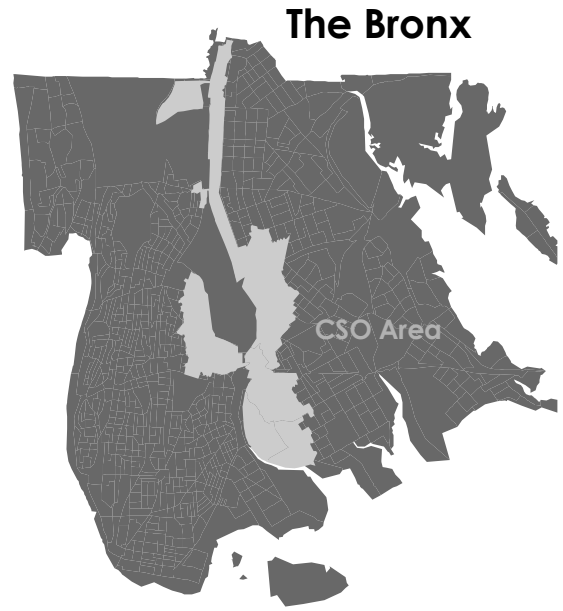
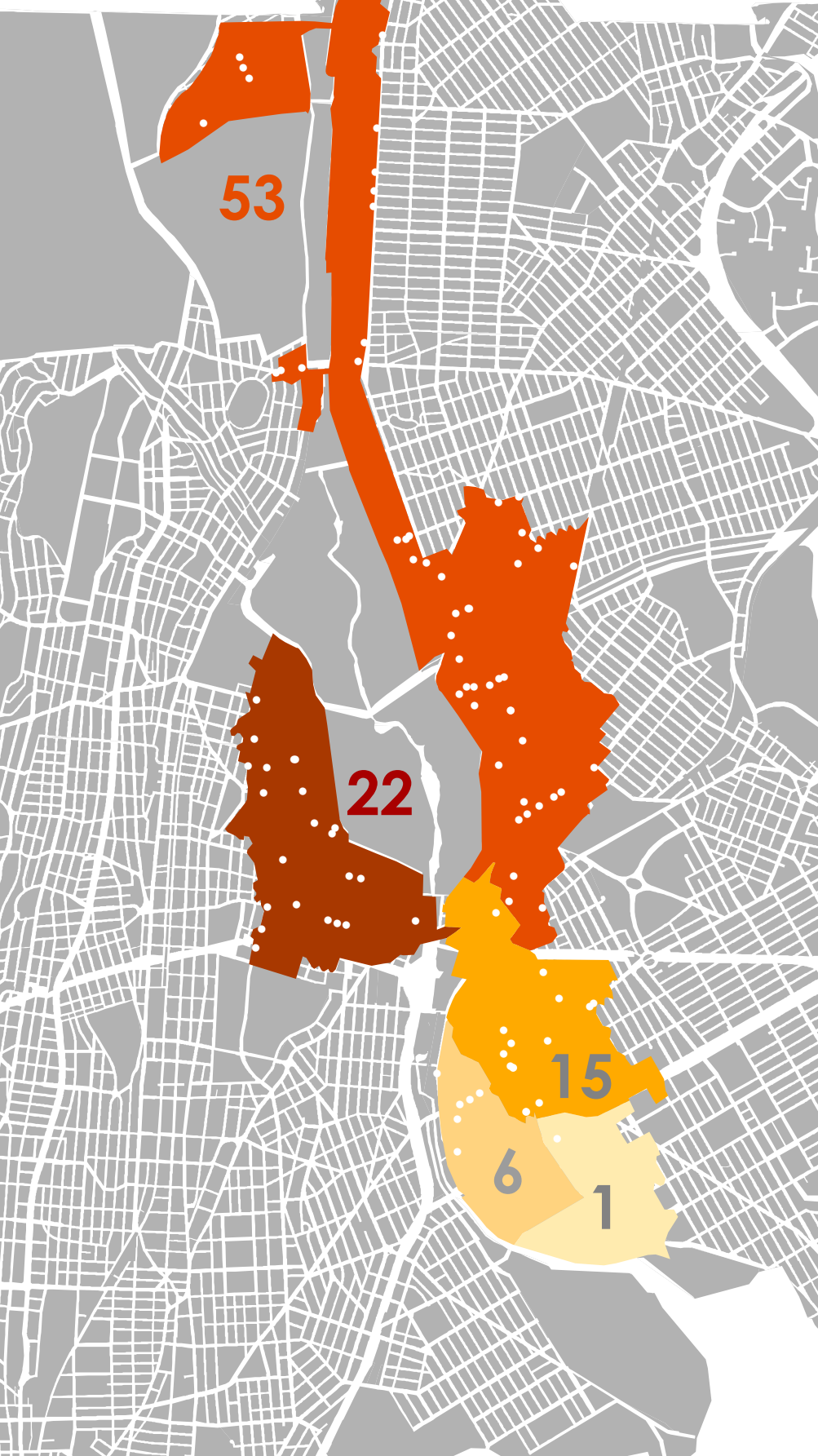
# Number of Laundry Facilities in each Sewershed CSO, The Bronx, NY



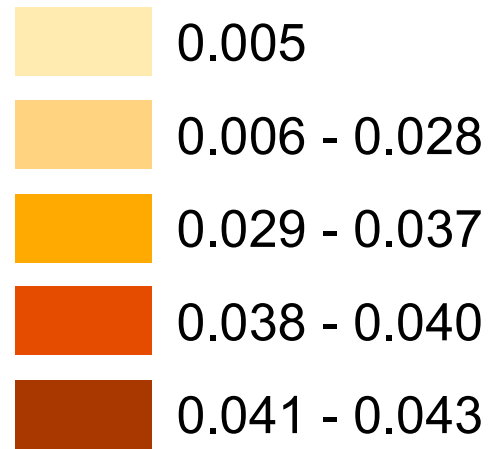
Data: NYC LION, 2008  
and ReferenceUSA  
Dory Kornfeld, March 2009



# Number of Laundry Facilities in each Sewershed CSO, The Bronx, NY



Density: Number of  
Laundromats per Acre  
in each CSO



Data: NYC LION, 2008  
and ReferenceUSA  
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