Lessons from Geocoding Locations from ED Database

The ED database is used for logging health code complaints and inspection activities by the department of public health. The Locations table in the ED database does not currently include any geographic information. In some cases, the addresses are incomplete or not decipherable. In the interests of providing feedback for the development of EAS and the EAS geocoder, those are left aside here.

Out of a total of 67,995 addresses, ESRI World Geocoder was able to match **7,069** addresses that EAS Geocoder did not match (10%). While it may not be possible to match the sophistication of this commercial geocoder, here is a breakdown of the shortfalls in order of importance/fixability:

1. Places where there is no centroid node in the parcel, and therefore no recorded parcel in the geocoder. Examples:

EAS_Geocoder_polygons	EAS
38 Morrell Pl	
1253 Masonic Ave	

2. Alternate Names Table. Below is a **non-comprehensive** list of equivalent street names. Reasons for equivalent street names include:
   - Street names have changed over time
   - Streets may have official/unofficial names

- There may be different, equally valid ways of writing some street names

EAS	Alternate
BUENA VISTA AVE WEST	BUENA VISTA WEST AVE
BUENA VISTA AVE EAST	BUENA VISTA EAST AVE
CESAR CHAVEZ ST	ARMY ST
VIA BUFANO	GROVER PL
BOB KAUFMAN ALY	HARWOOD ALLEY
MONROE ST	DASHIELL HAMMETT ST
THE EMBARCADERO	EMBARCADERO
BROADWAY	BROADWAY ST
TERRY A FRANCOIS BLVD	TERRY FRANCOIS ST
WEST PORTAL	W PORTAL
01ST ST	1ST ST
02ND ST	2ND ST
03RD ST	3RD ST
04TH ST	4TH ST
05TH ST	5TH ST
06TH ST	6TH ST
07TH ST	7TH ST
08TH ST	8TH ST
09TH ST	9TH ST
01ST ST	FIRST ST
02ND ST	SECOND ST
03RD ST	THIRD ST
04TH ST	FOURTH ST
05TH ST	FIFTH ST
06TH ST	SIXTH ST
07TH ST	SEVENTH ST
08TH ST	EIGHTH ST
09TH ST	NINTH ST
10TH ST	TENTH ST
11th ST	ELEVENTH ST
12th ST	TWELFTH ST
13th ST	THIRTEENTH ST
14th ST	FOURTEENTH ST
15th ST	FIFTEENTH ST
16th ST	SIXTEENTH ST
17th ST	SEVENTEENTH ST
18th ST	EIGHTEENTH ST
19th ST	NINETEENTH ST
20th ST	TWENTIETH ST

3. There is currently no way to geocode to any of the piers at the San Francisco Port.

4. Addresses in plazas are not in EAS (examples: WILLIE MAYS PLAZA, EMBARCADERO CENTER, FERRY BUILDING, UNITED NATIONS PLAZA)

5. Addresses that may exist on the ground do not exist in EAS. Not clear whether these are legal addresses. In some cases, 123 Main Street was not in EAS, but 123A Main Street was. Examples:

1025 14th St
1725 IRVING St
2290 14th Ave
500 CLARENDON Ave
1099 Hayes St
443 Burnett Ave
1360 OAKDALE Ave
555 Portola Dr
50 POMONA Ave
400 MANSELL St
325 LAGRANDE Ave

6. Non-standard address formats, including leading zeros on the street numbers, ranges of street numbers.