

G

Sustainable Street Technical Suitability and Co-Benefit Maps

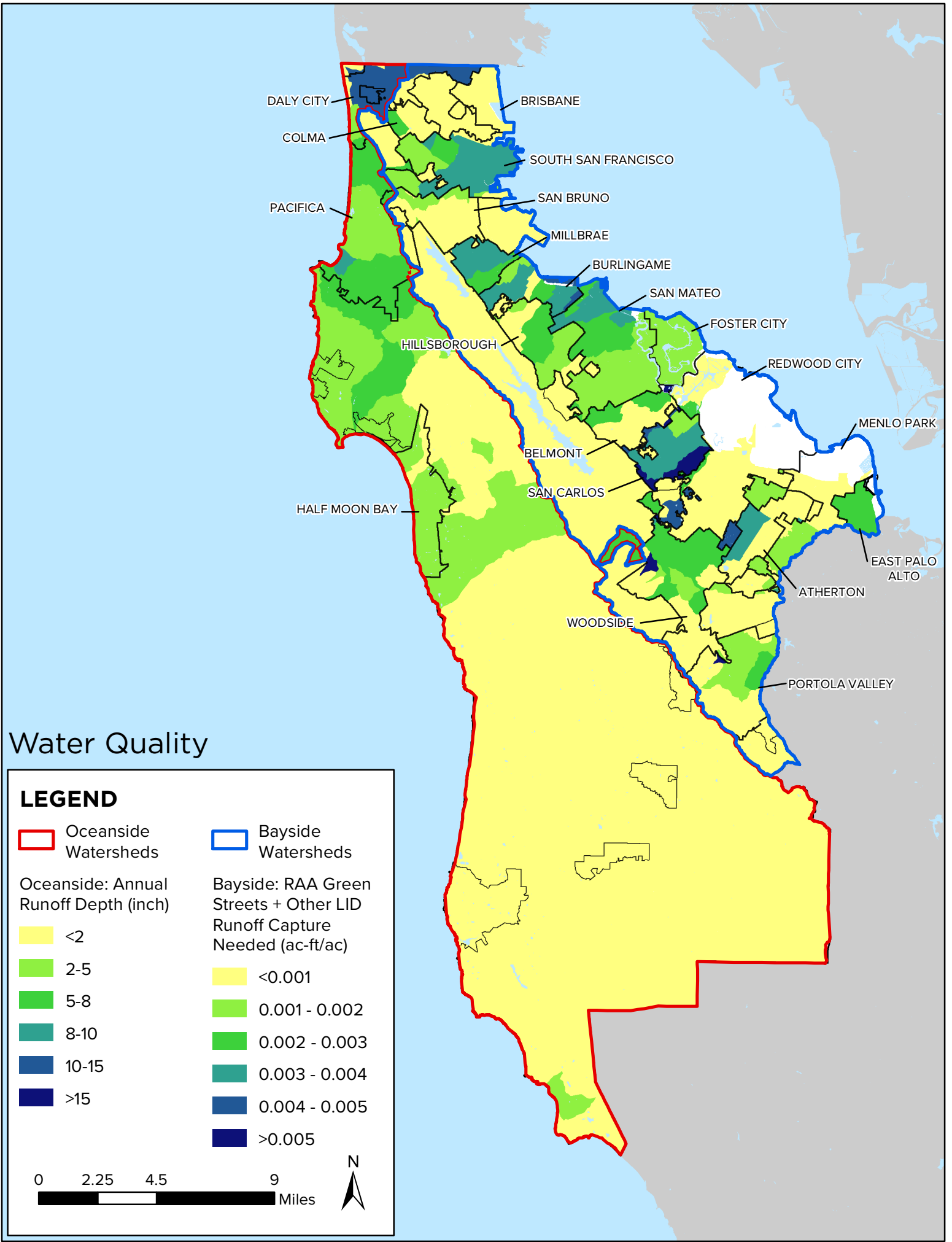


Lotus Water
engineering

660 Mission Street, 2nd Floor
San Francisco, CA 94105
(415) 800-6805 www.lotuswater.com

Appendix G

Technical Suitability and Prioritization Maps
San Mateo Countywide Sustainable Streets Master Plan

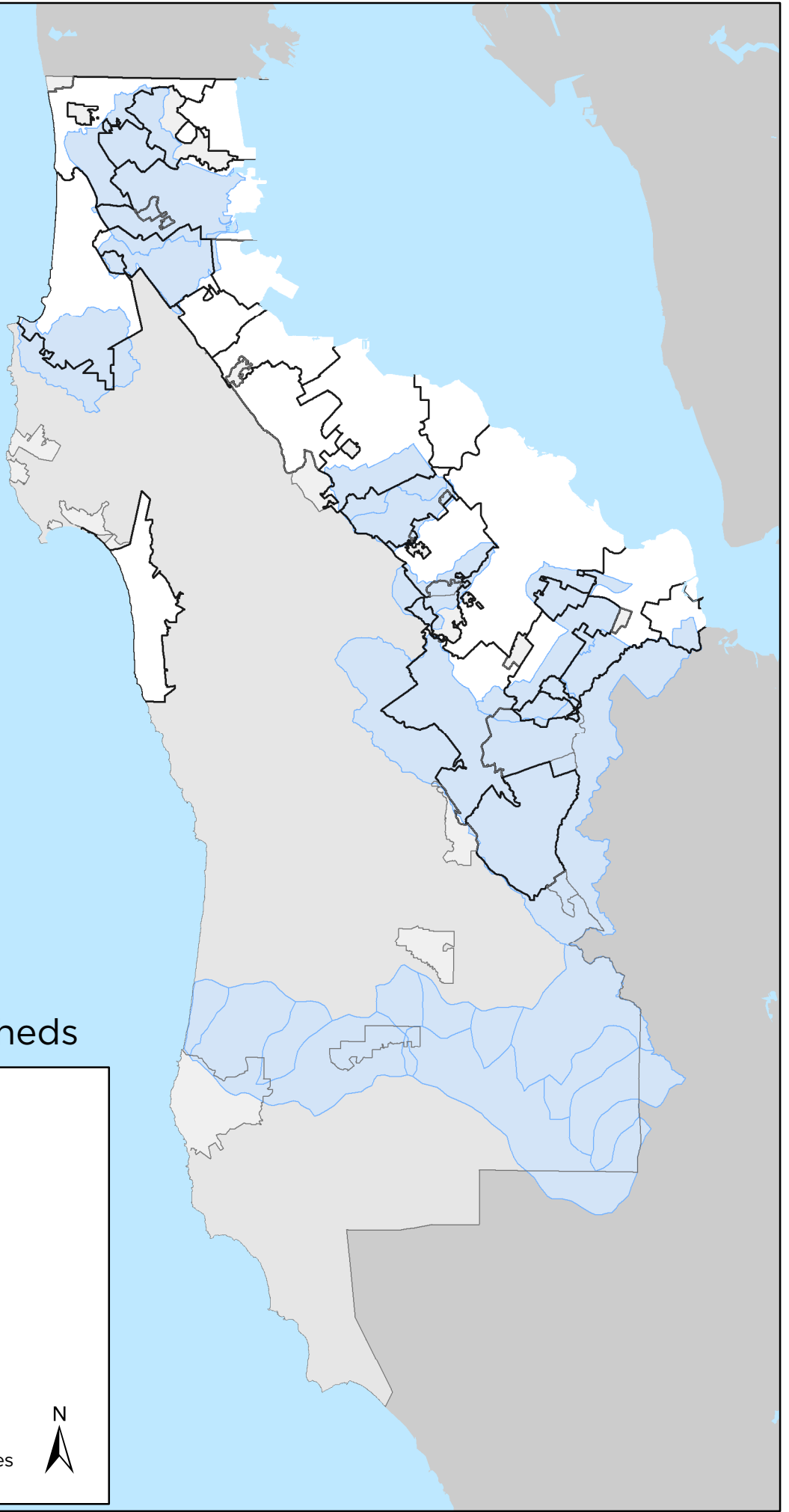


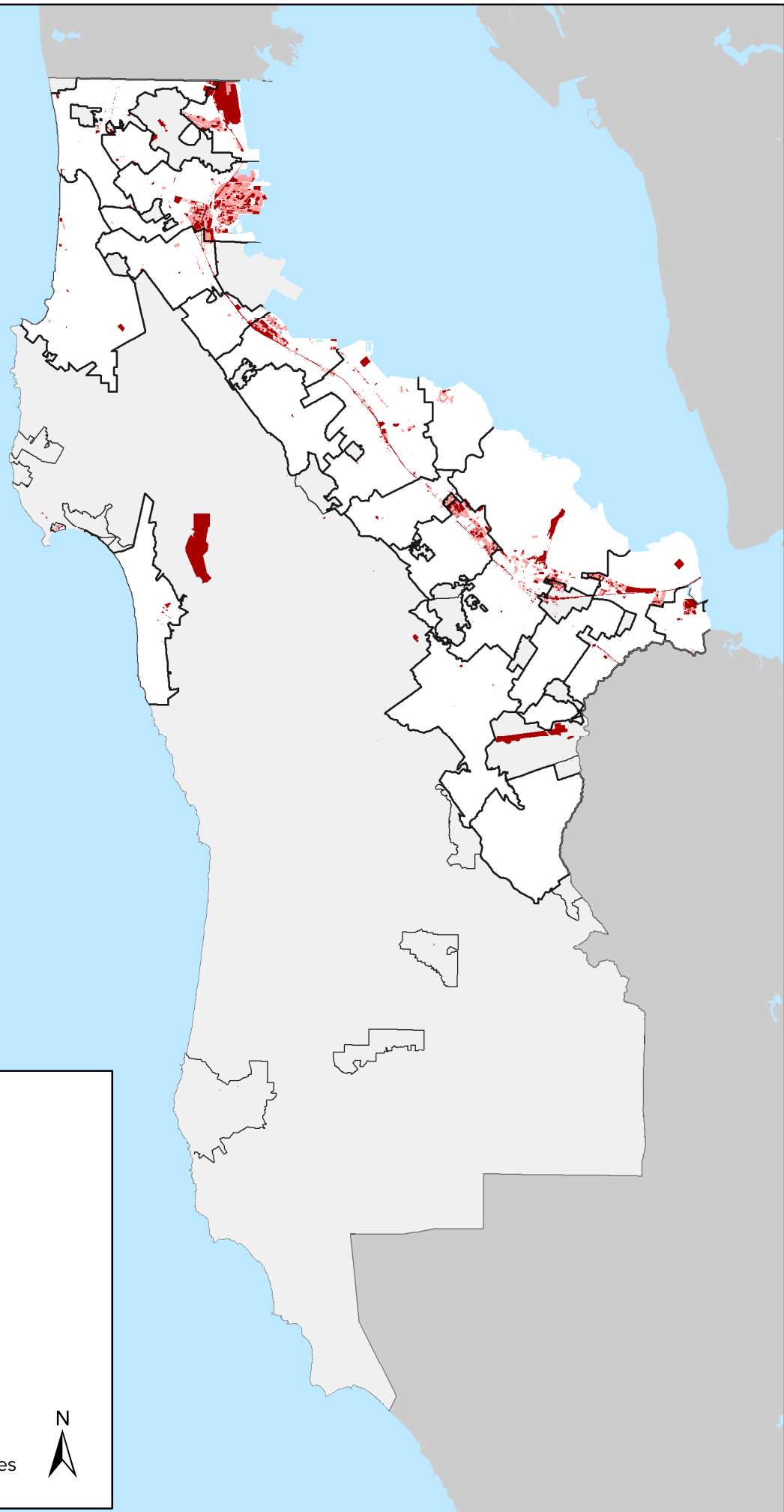
Flood Prone Watersheds

LEGEND

 Flood Prone Watersheds

0 2.25 4.5 9 Miles





PCB Interest Areas

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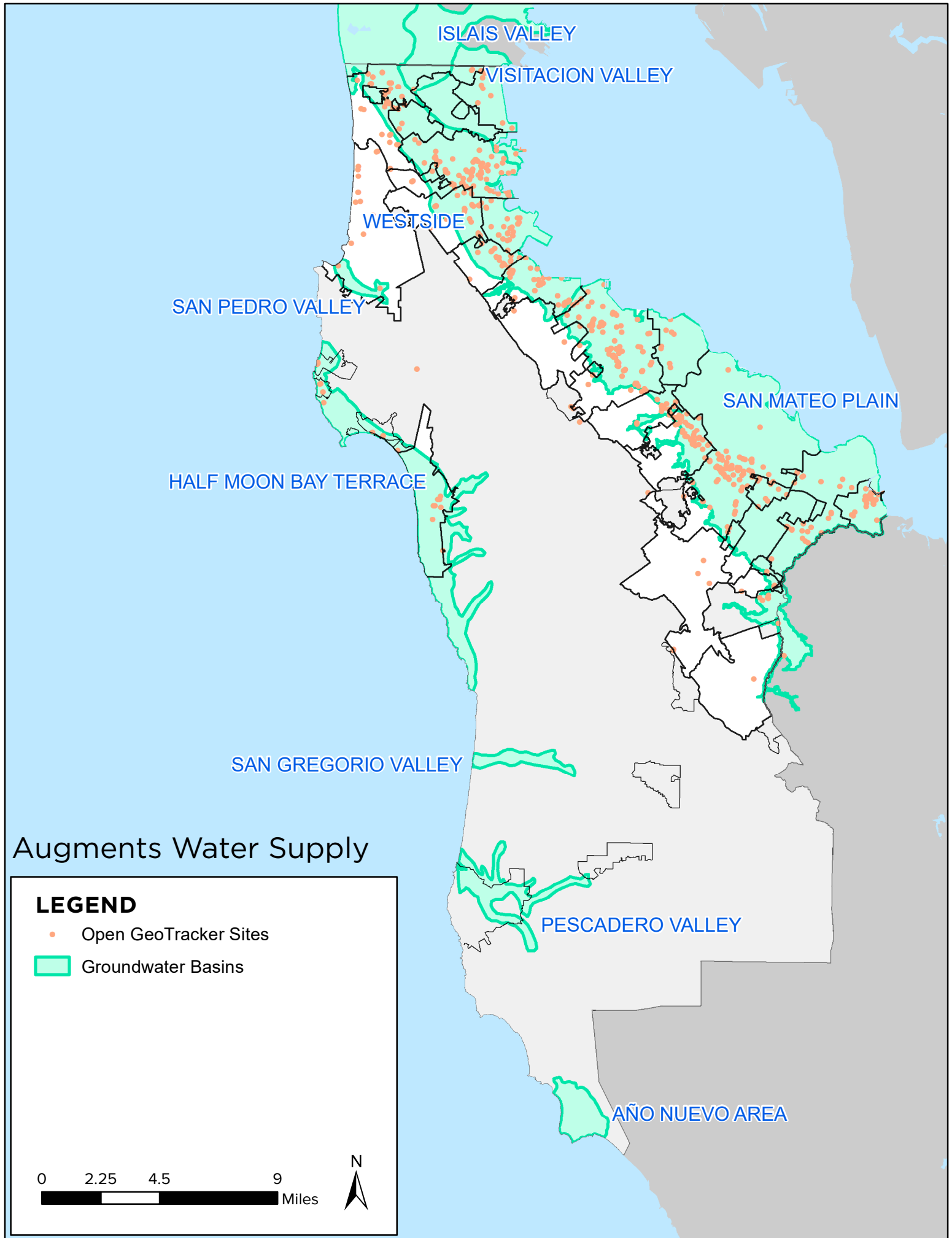
PCB Interest Area

 High

 Moderate

0 2.25 4.5 9
 Miles

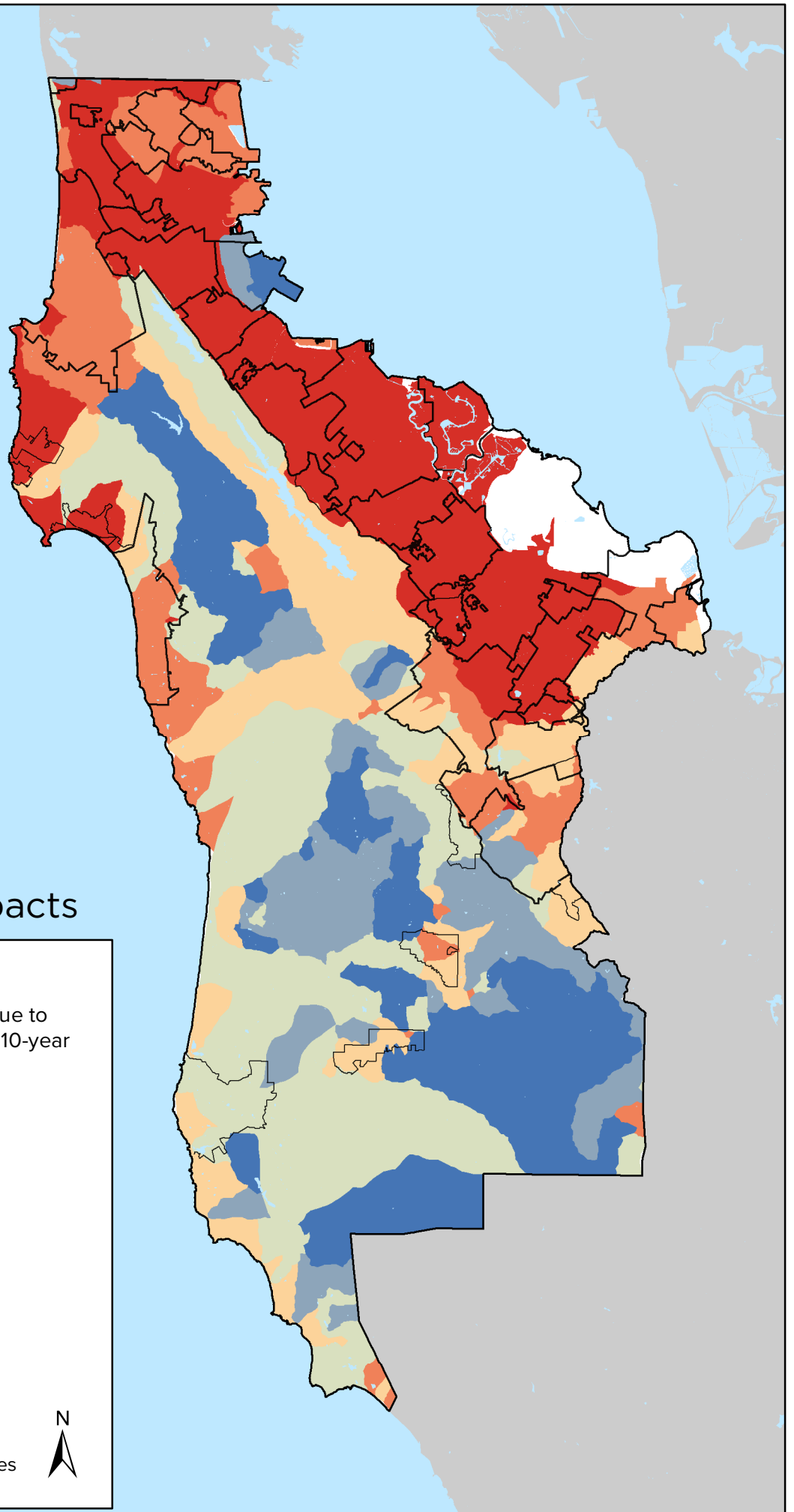
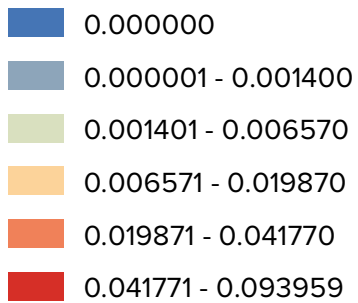


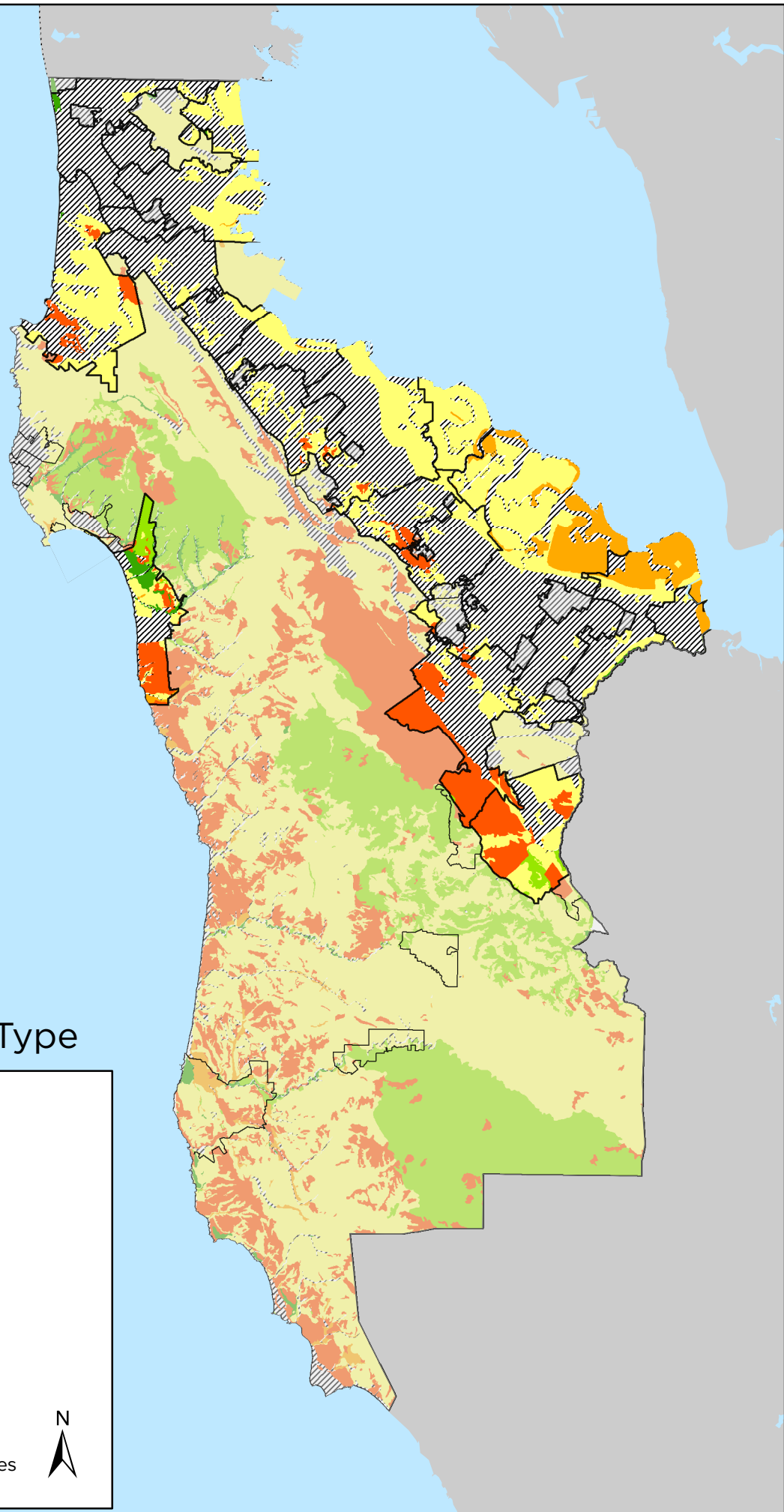


Climate Change Impacts

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Increase in Runoff from Roadways due to Climate Change during the RCP 8.5 10-year 6-hr event (inch)





Hydrogeologic Soil Type

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Hydrogeologic Soil Group

Unknown

A

B

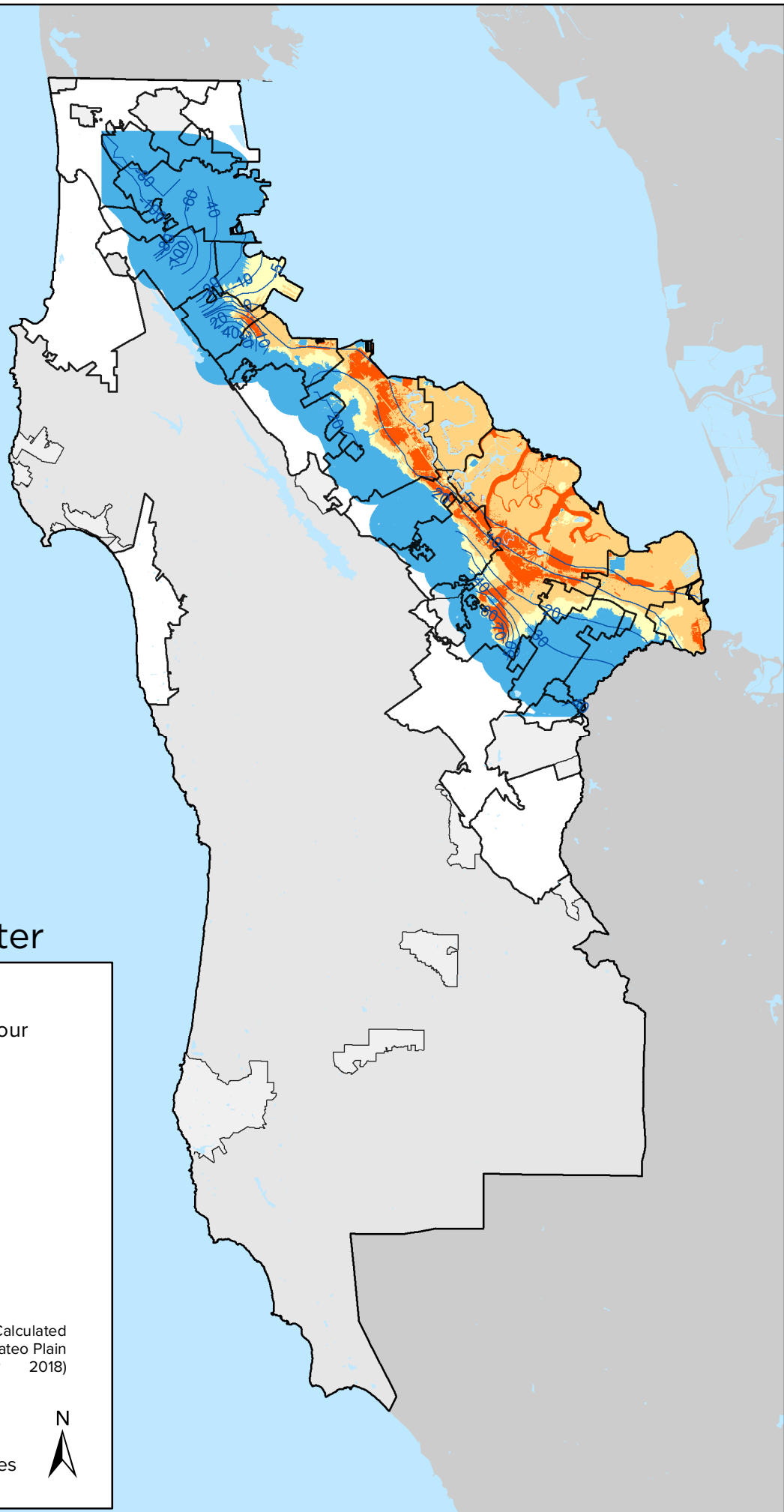
C

C/D

A/D; B/D; D

0 2.25 4.5 9 Miles





Depth to Groundwater

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— Groundwater Elevation Contour

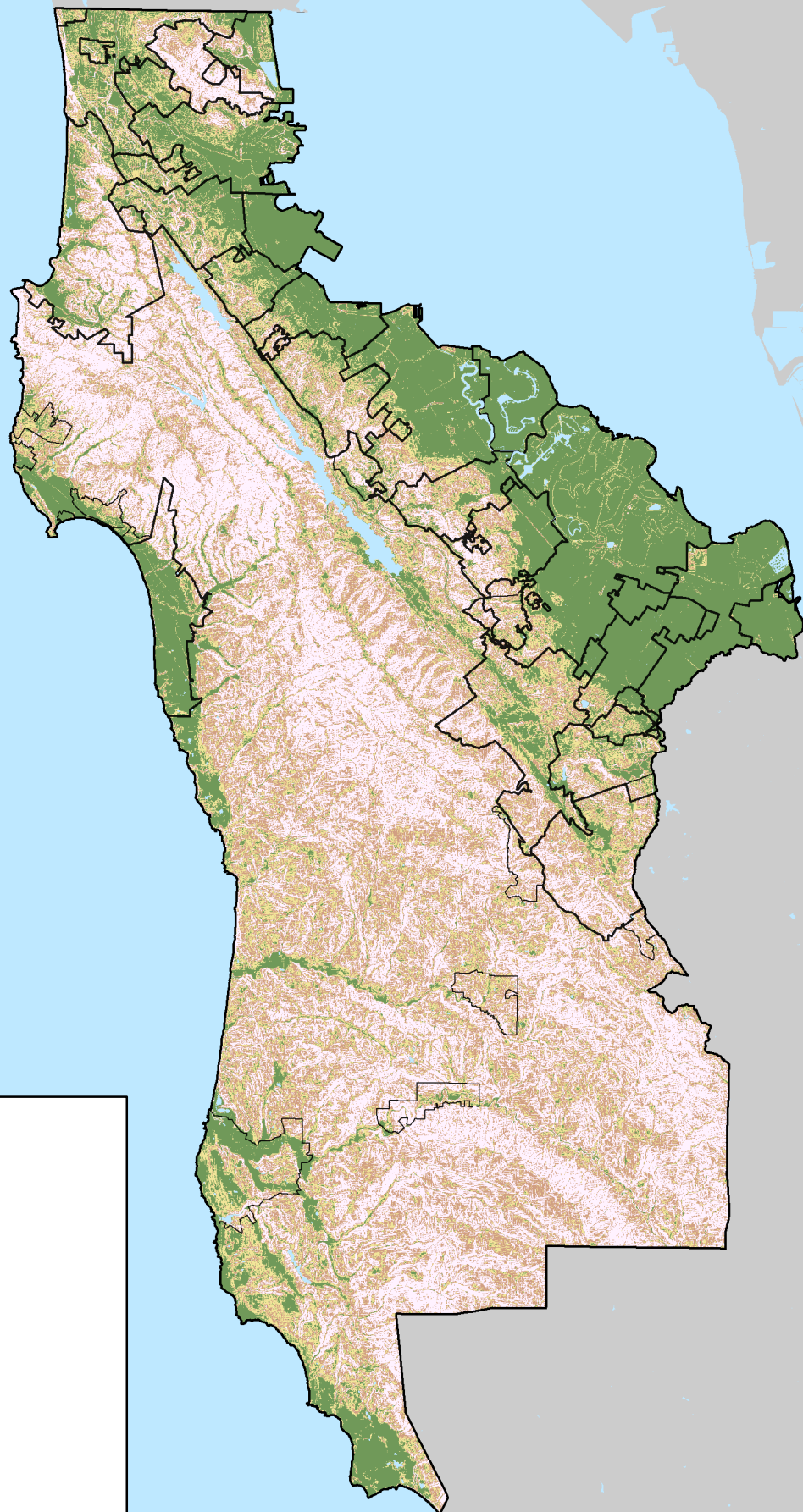
Depth to Groundwater* (feet)

-  No Data
-  0
-  0 - 10
-  10 - 20
-  > 20

* Groundwater data from Steady-State Model-Calculated Groundwater Levels for Shallow Aquifer (San Mateo Plain Groundwater Basin Assessment, July 2018)

0 2.25 4.5 9
Miles





Slope

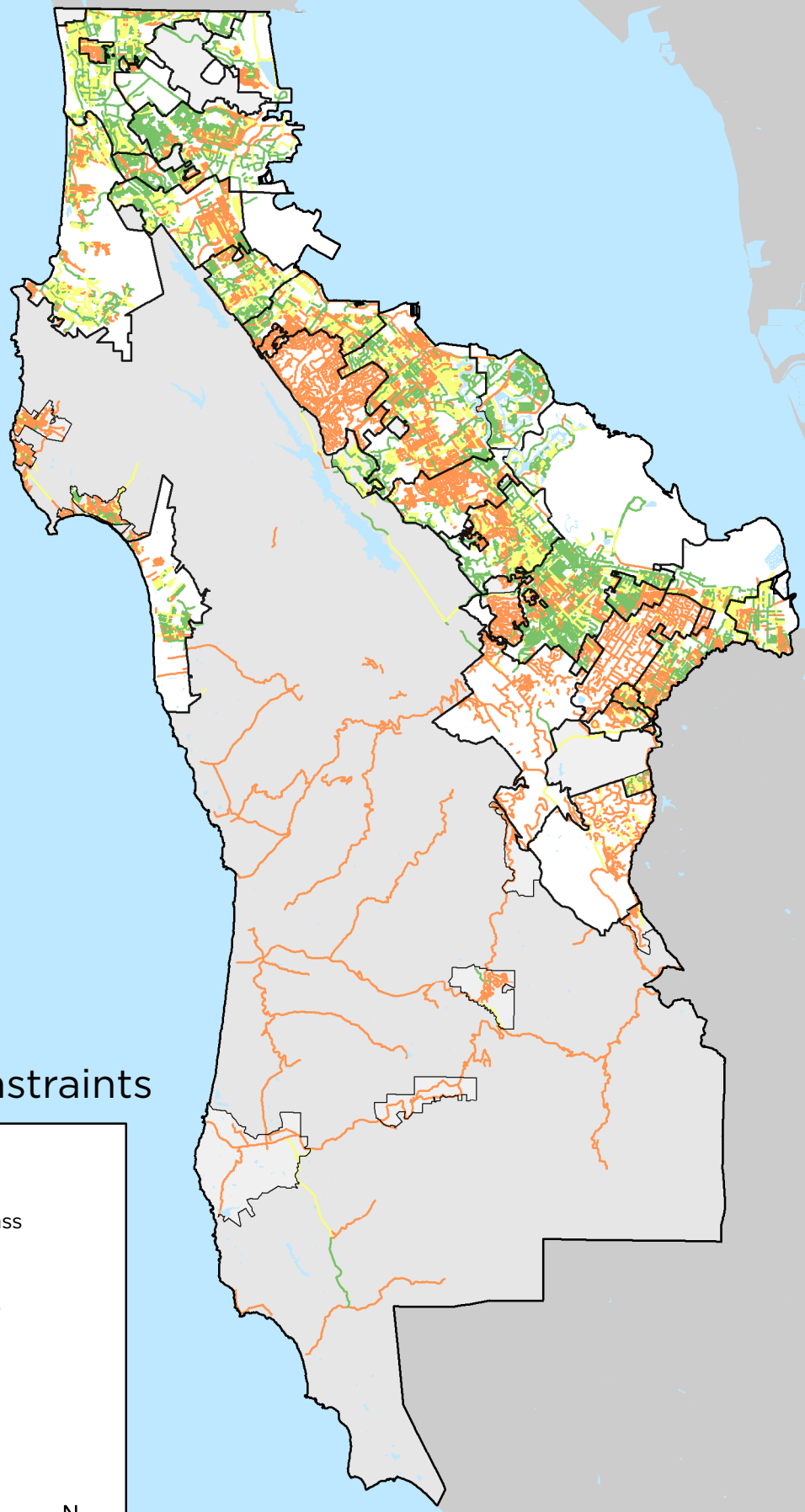
LEGEND

Slope (%)

- 0 - 2
- 2 - 5
- 5 - 10
- > 10

0 2.25 4.5 9 Miles



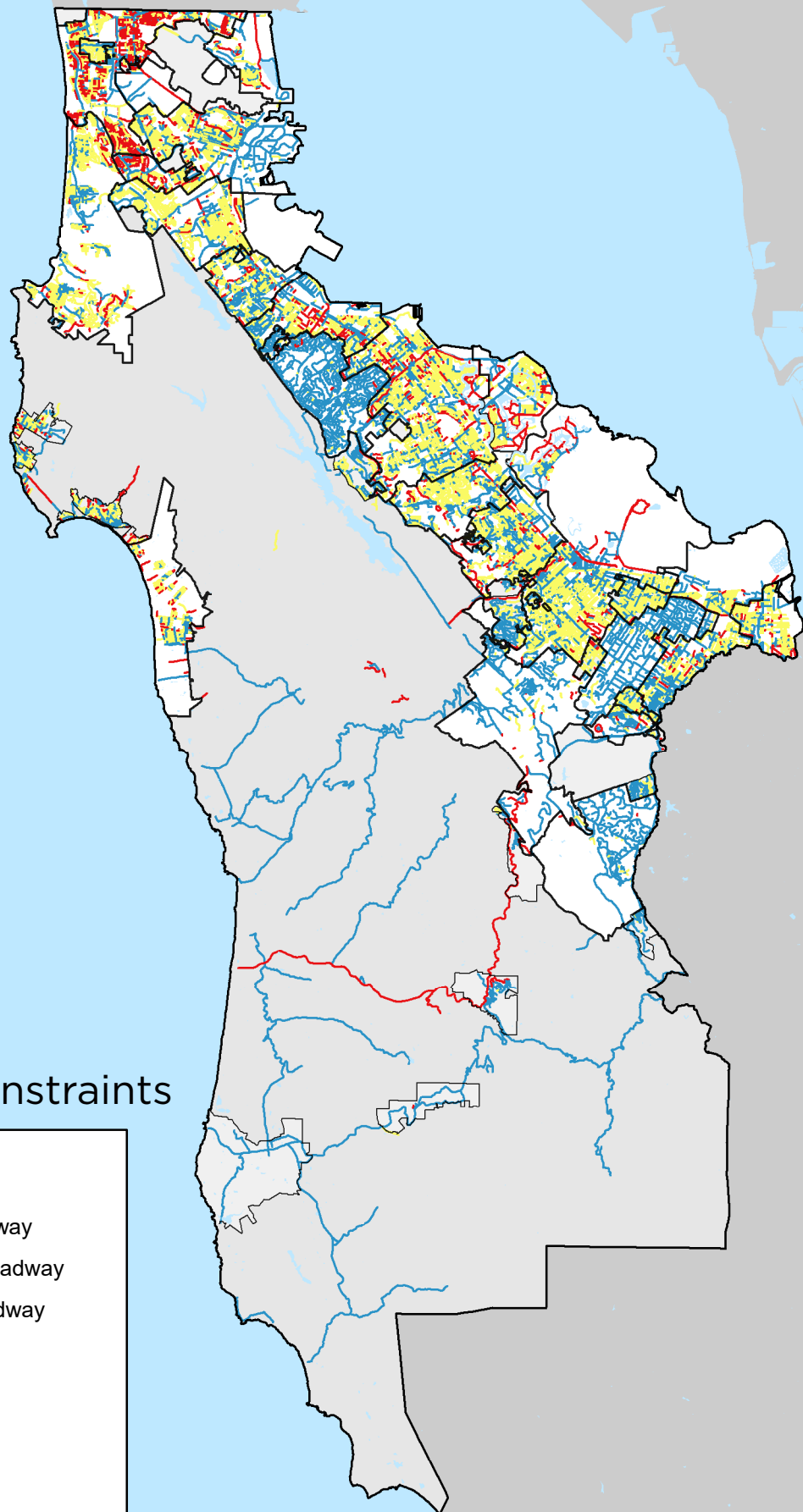


Available Width Constraints

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- Skinniest 1/3rd of Streets by Class
- Middle 1/3rd of Streets by Class
- Widest 1/3rd of Streets by Class





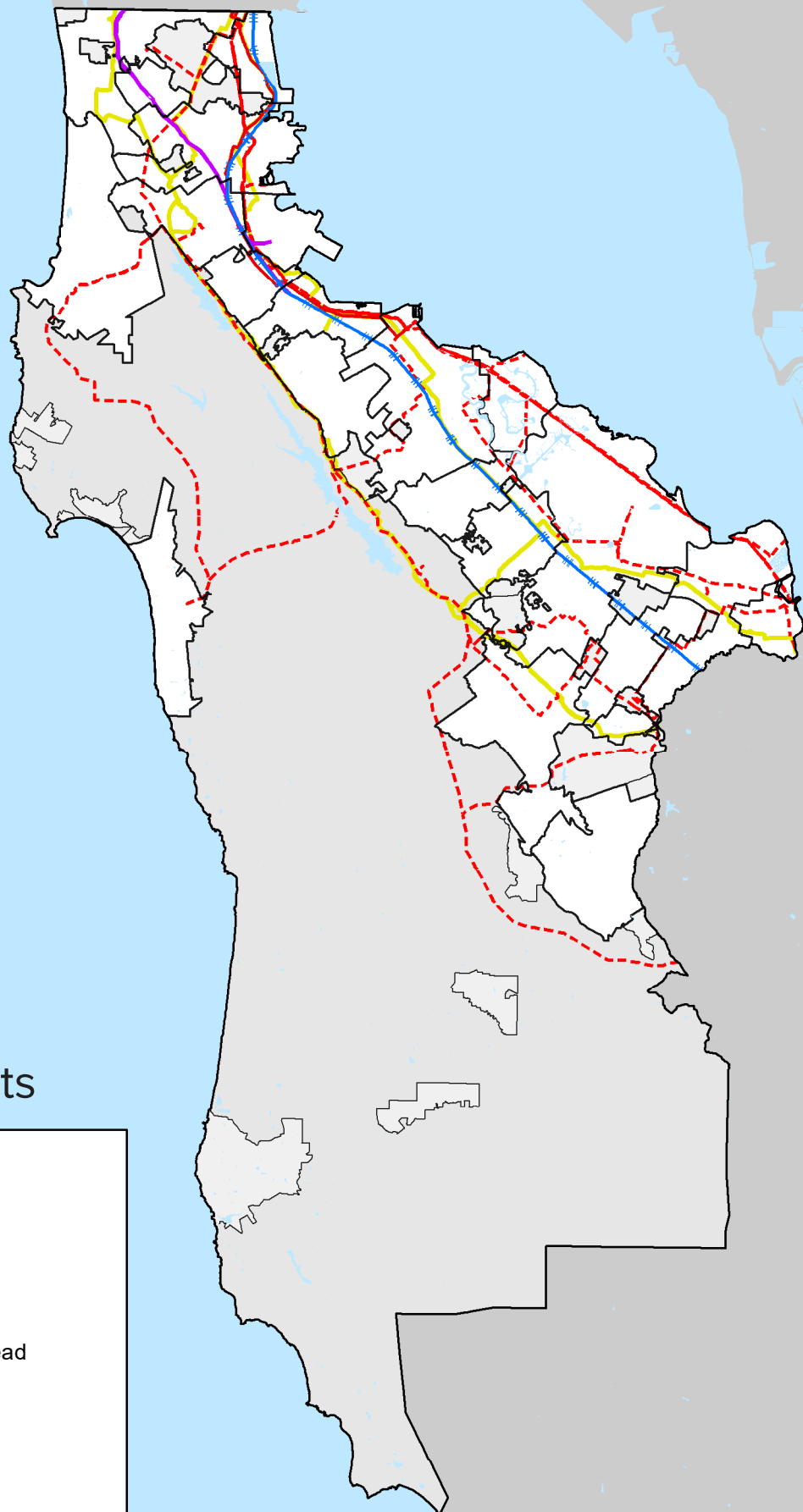
Available Length Constraints

LEGEND

- <50 ft conflict per 1,000 ft roadway
- 50-100 ft conflict per 1,000 ft roadway
- >100 ft conflict per 1,000 ft roadway

0 2.25 4.5 9 Miles





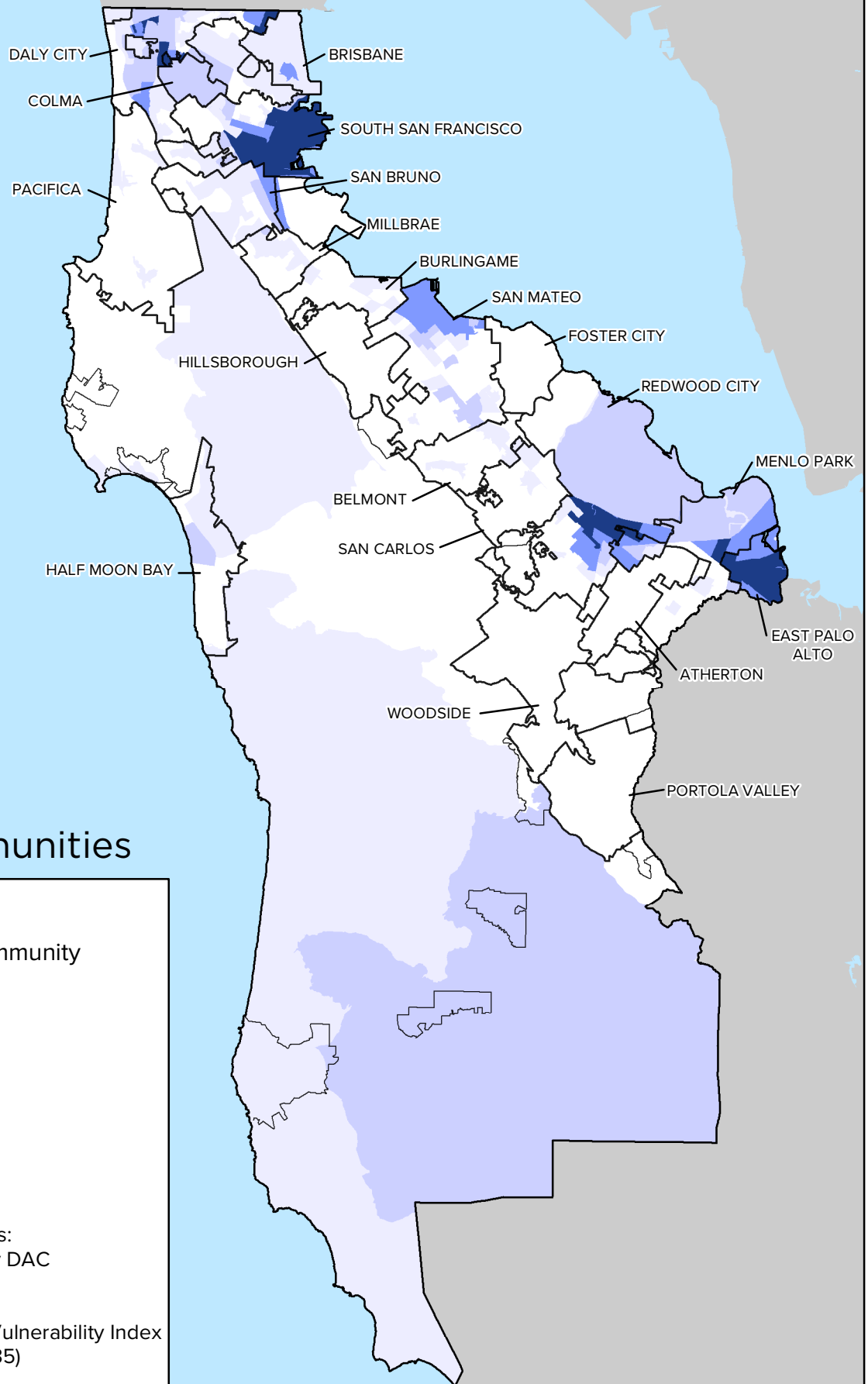
Major Utility Conflicts

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- +— CalTrain
- BART
- Electrical Transmission
- - - Electrical Transmission Overhead
- Natural Gas Pipeline

0 2.25 4.5 9 Miles

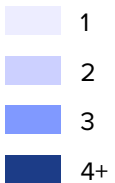




Vulnerable Communities

LEGEND

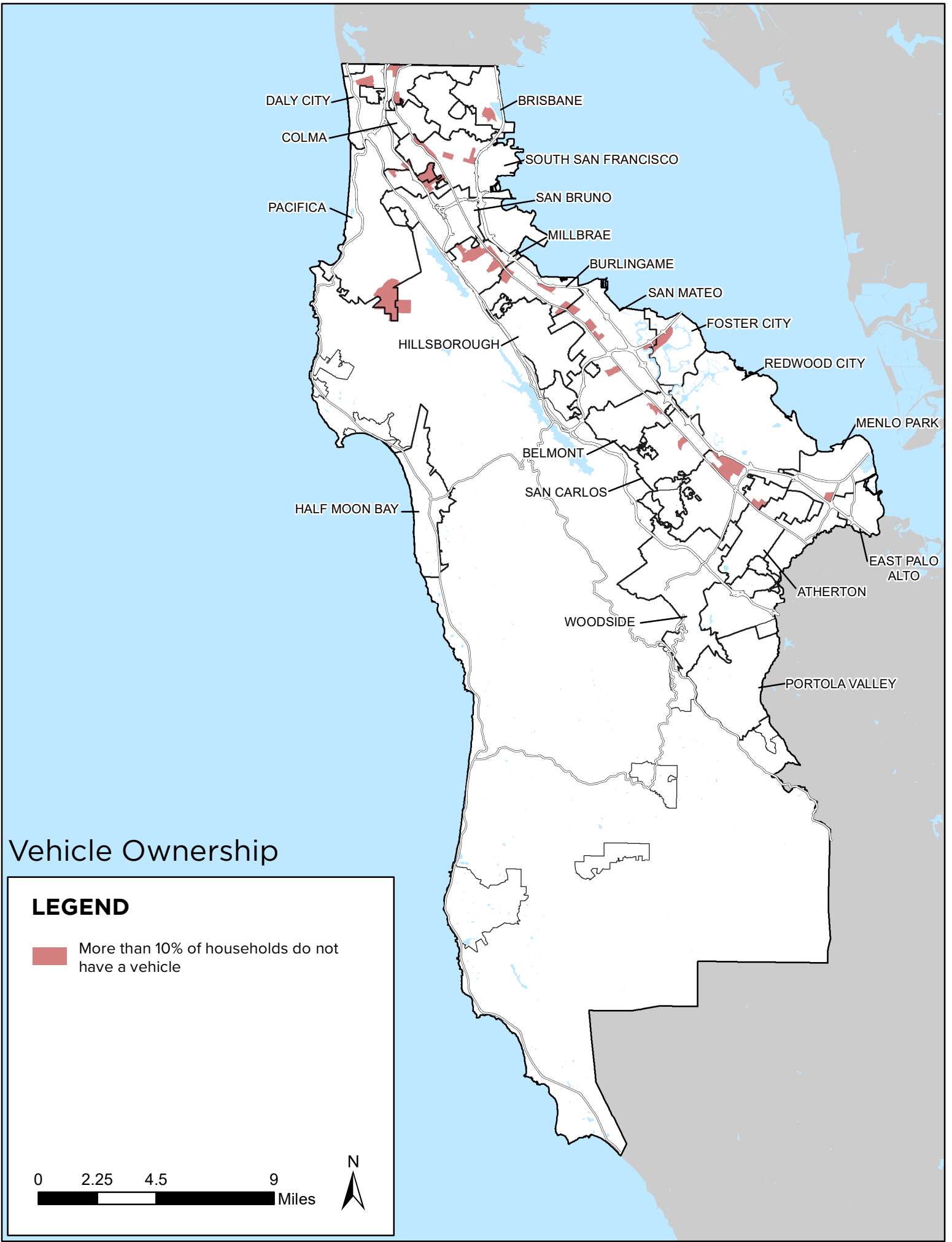
Number of Vulnerable Community Indicators

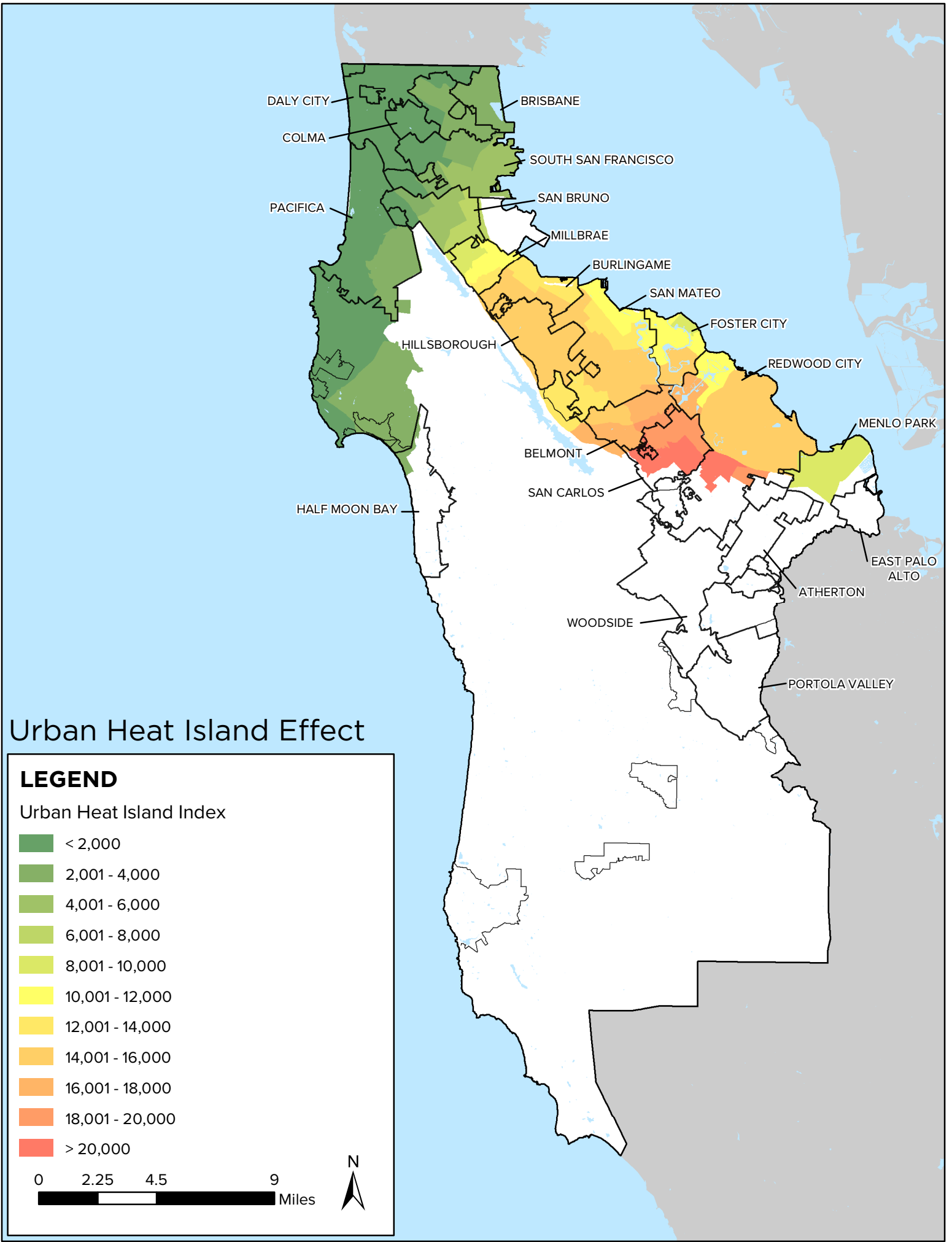


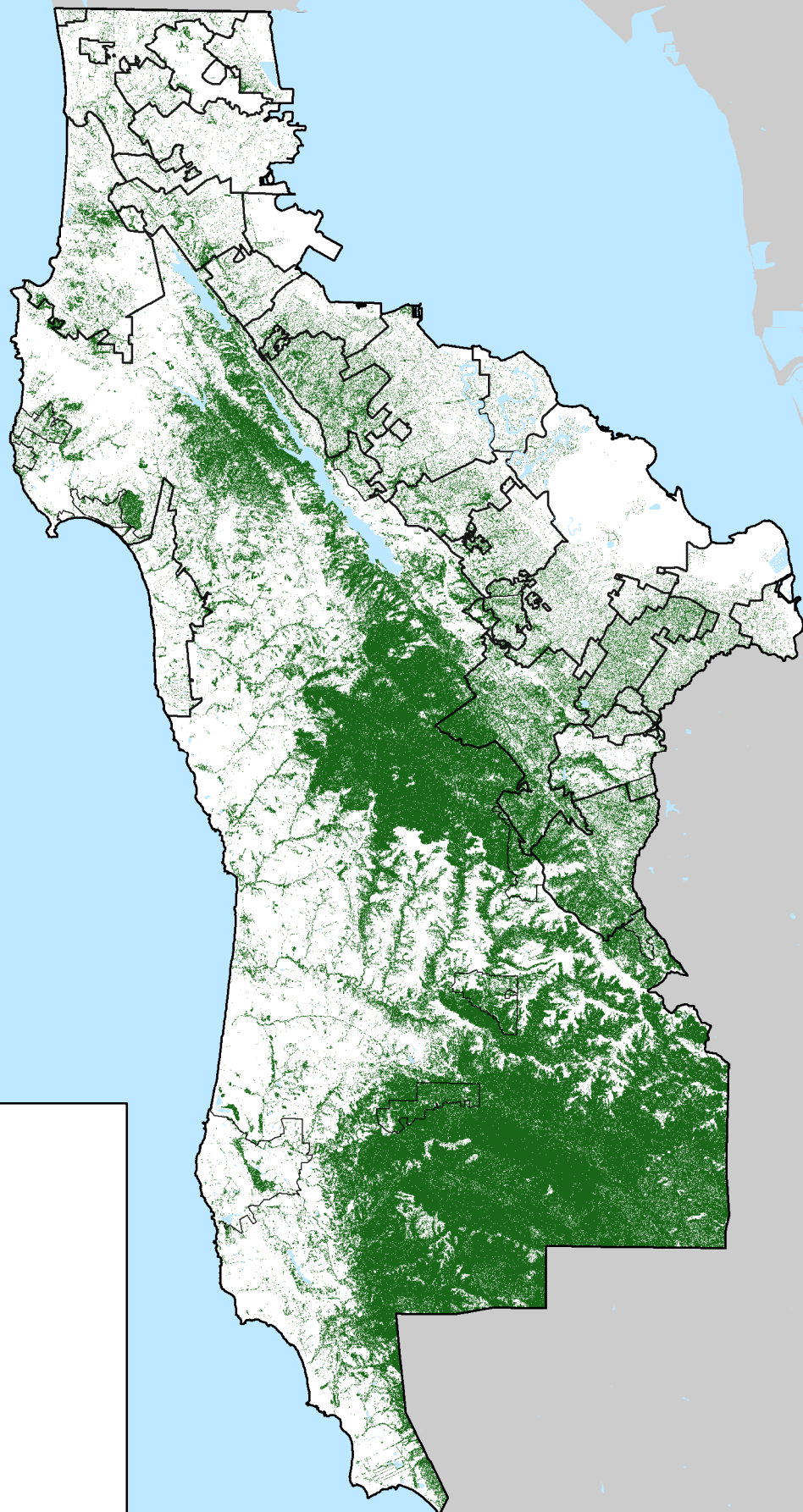
Vulnerable Community Indicators:

- American Community Survey DAC
- SFBRA Economically DAC
- MTC Community of Concern
- top tier of SMC Community Vulnerability Index
- CalEnviroScreen DAC (AB 535)







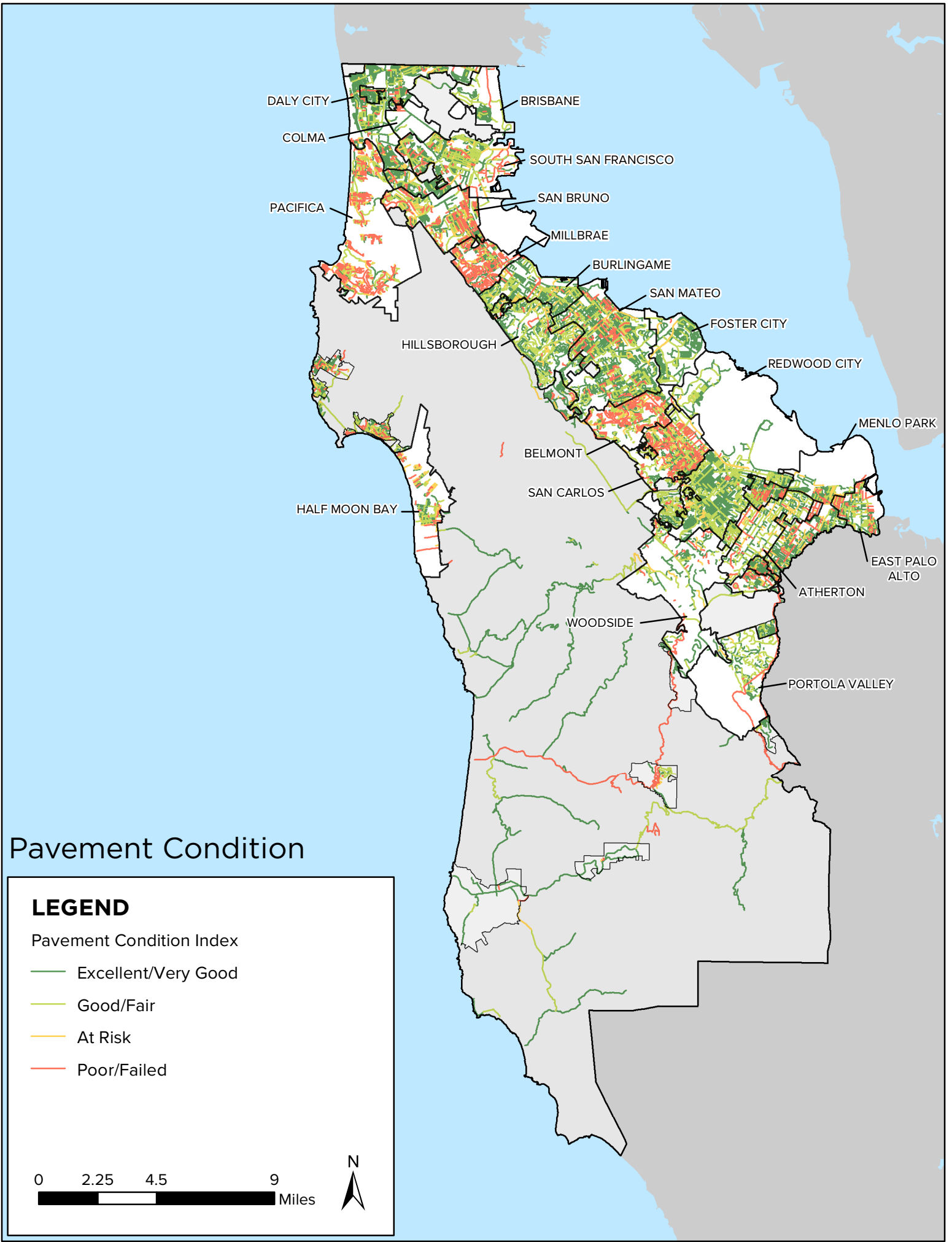


Canopy Coverage

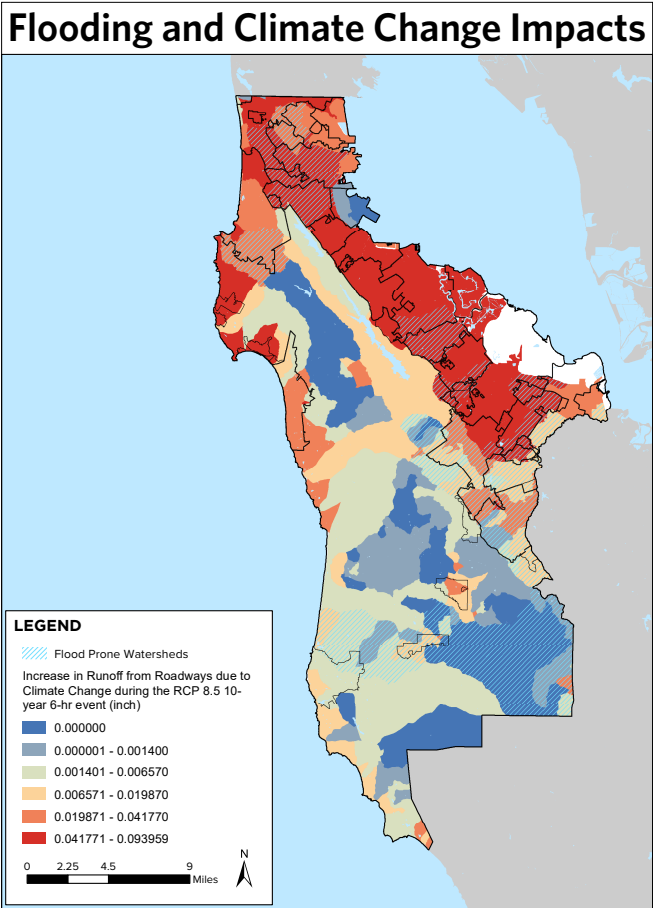
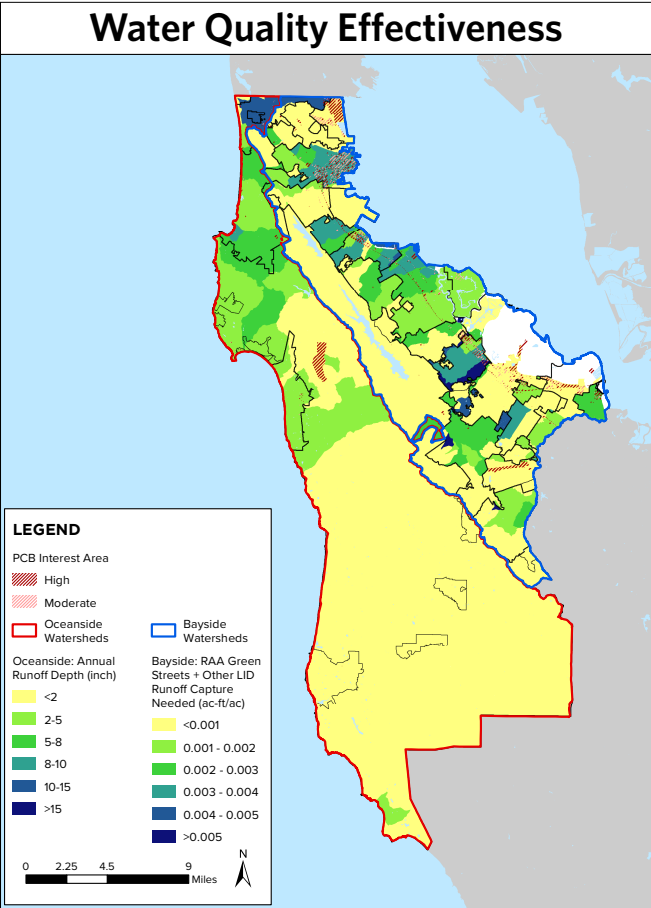
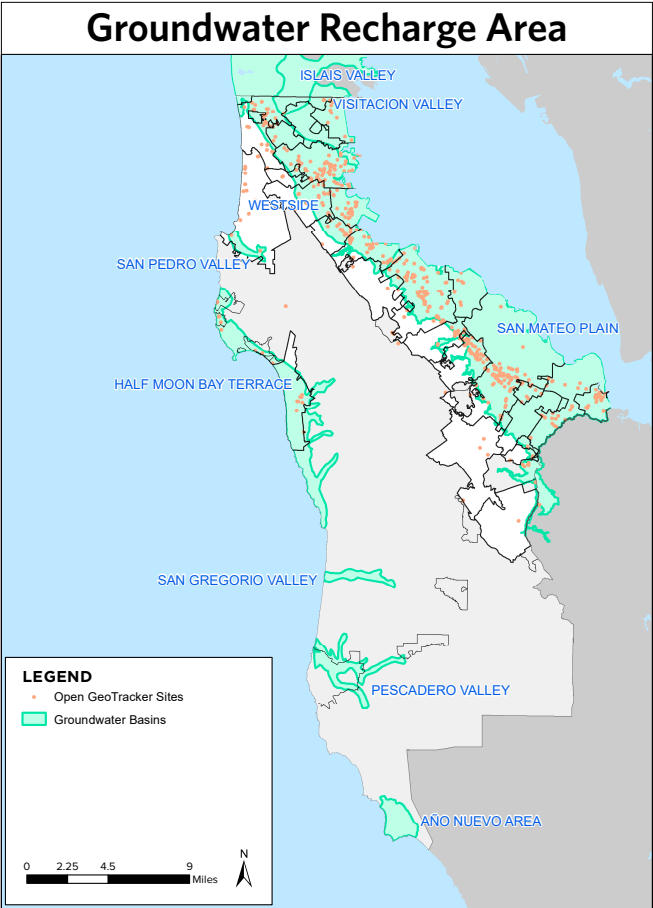
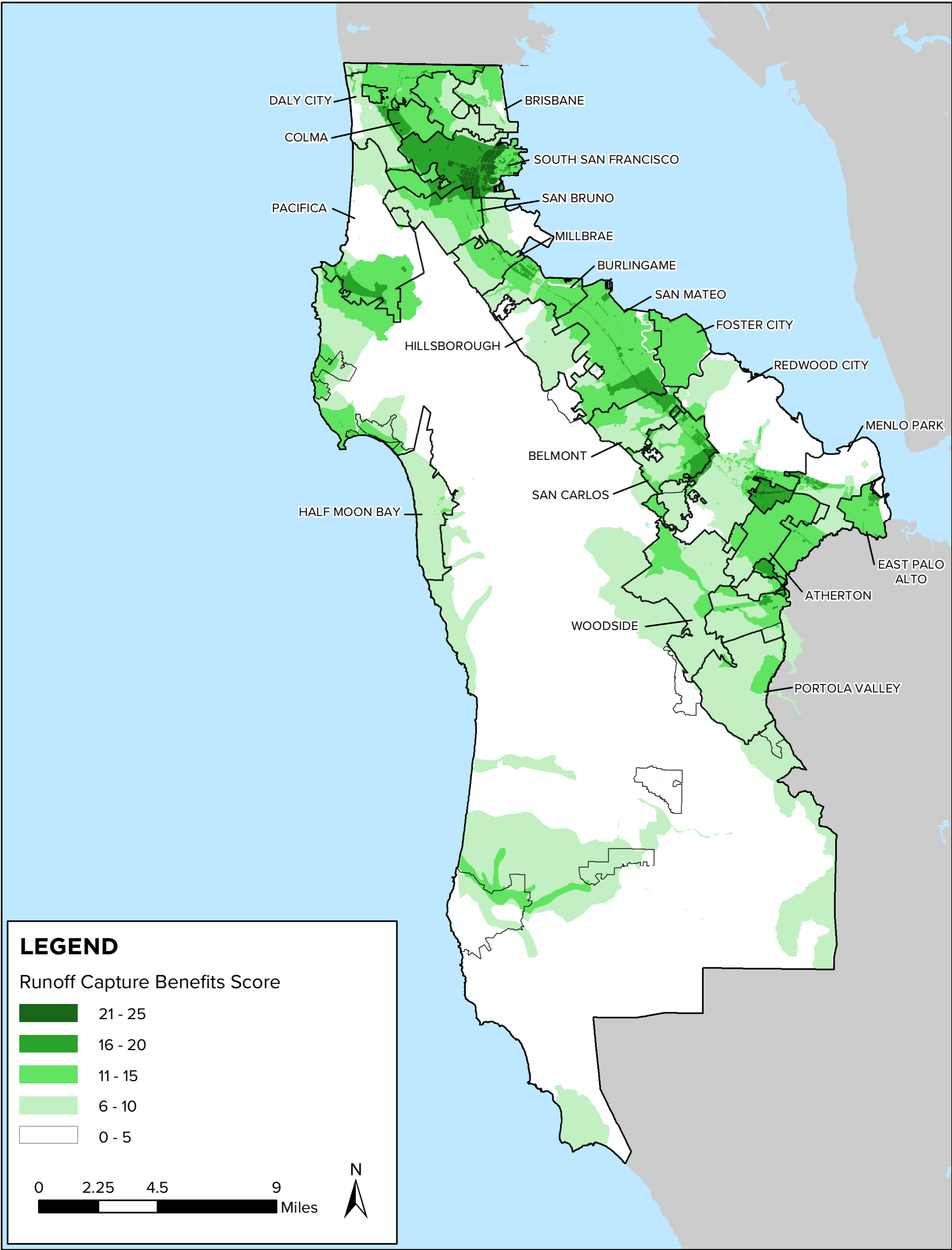
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 Tree Canopy Coverage

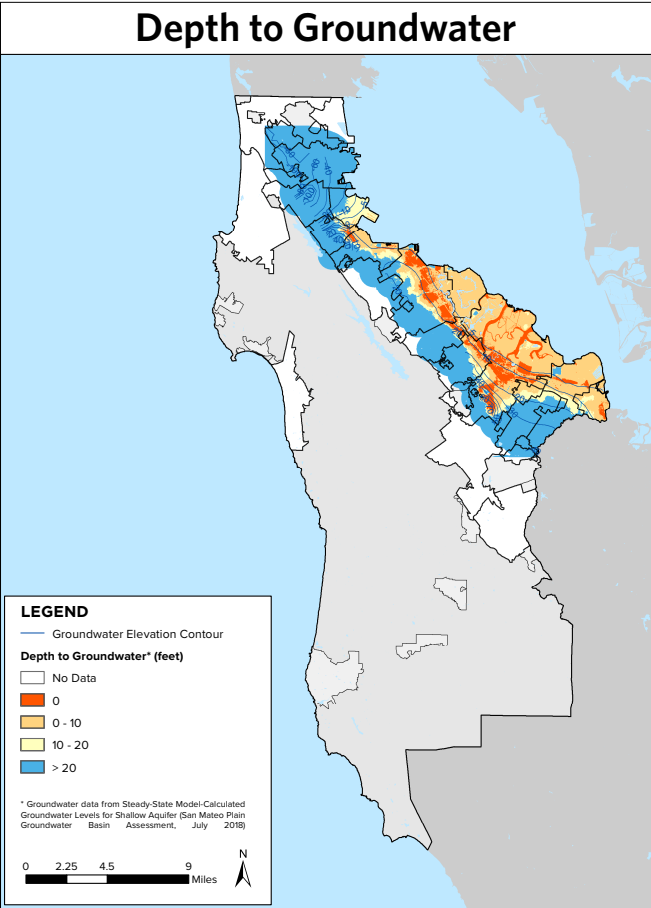
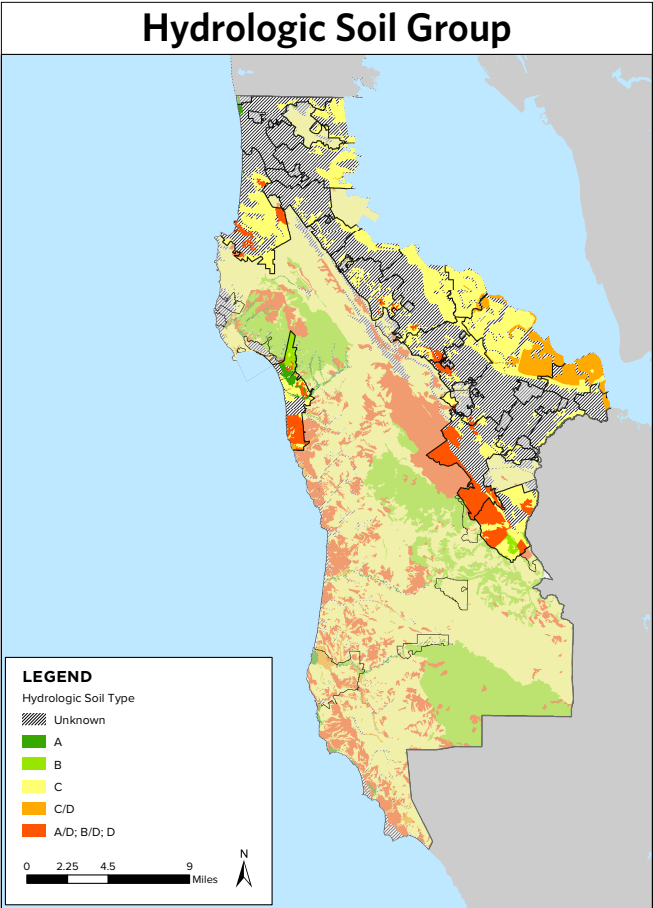
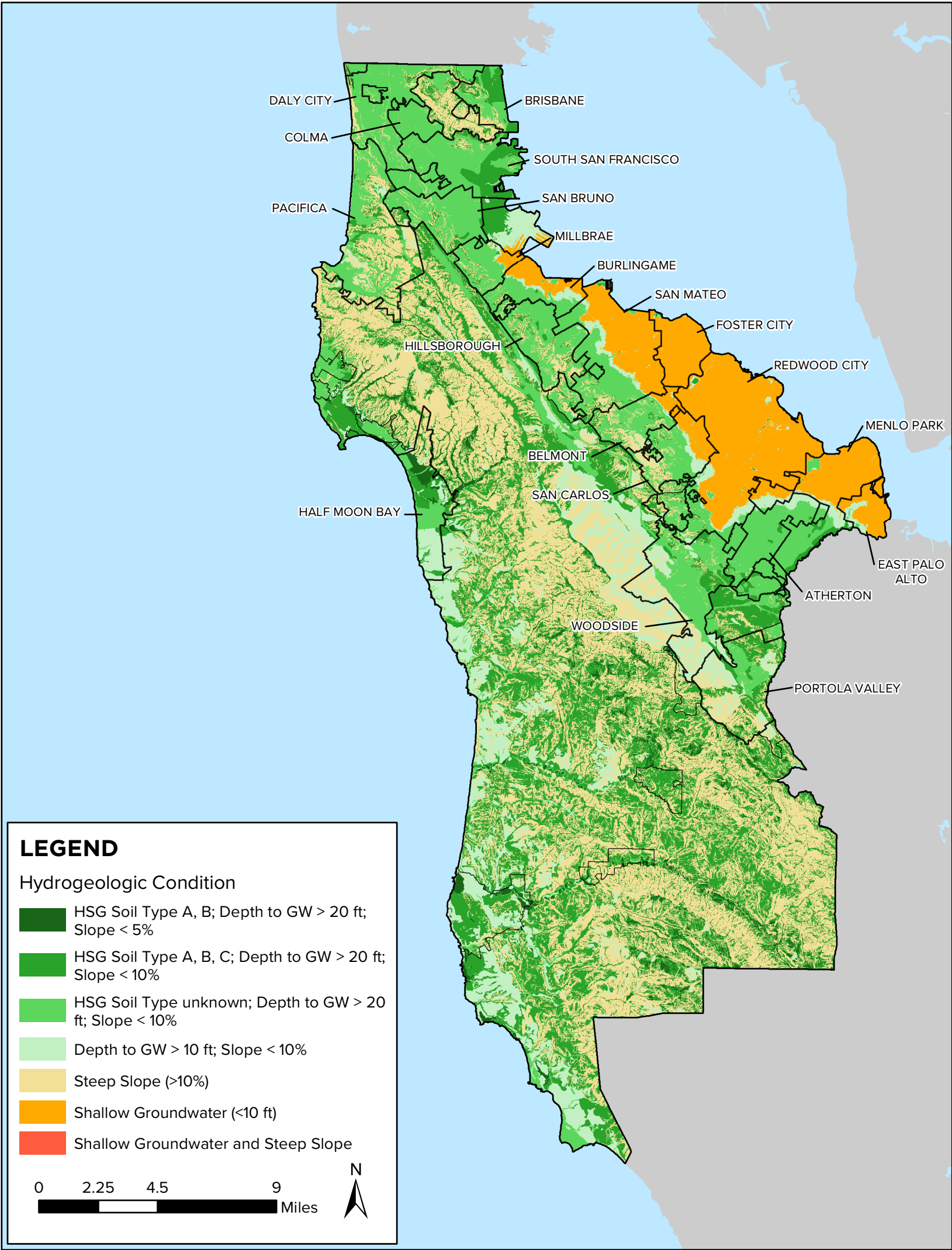




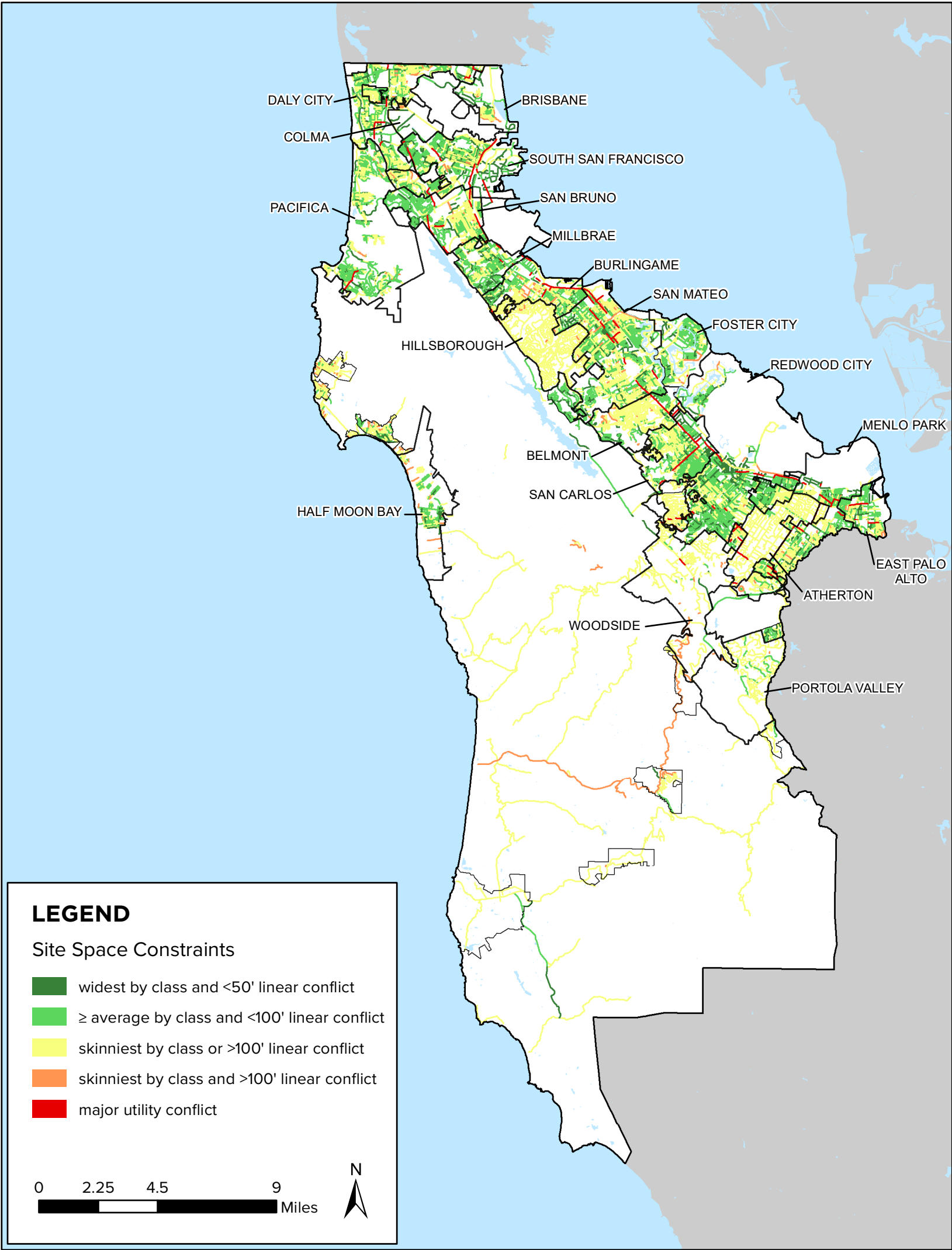
TECHNICAL SUITABILITY: RUNOFF CAPTURE BENEFIT



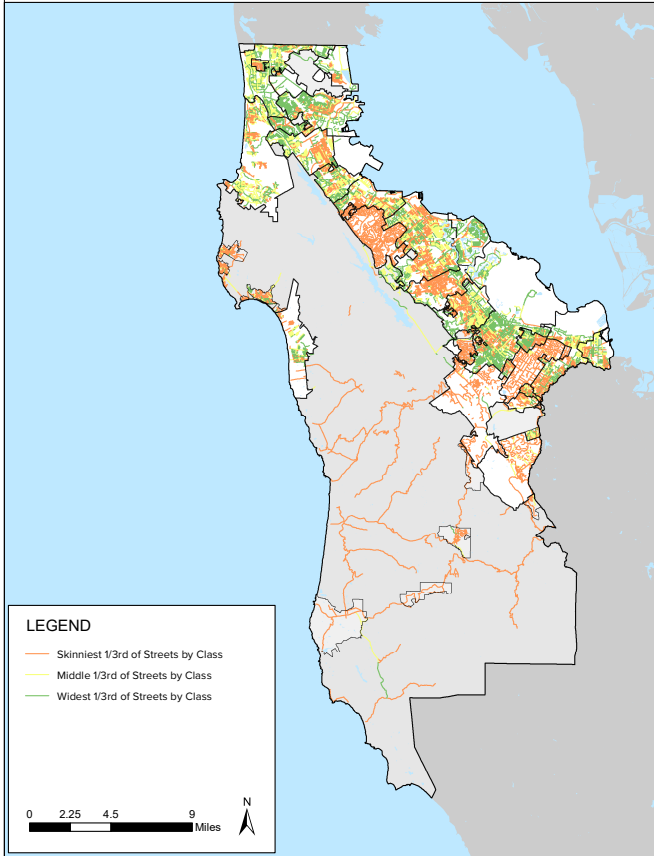
TECHNICAL SUITABILITY: HYDROGEOLOGIC CONDITION



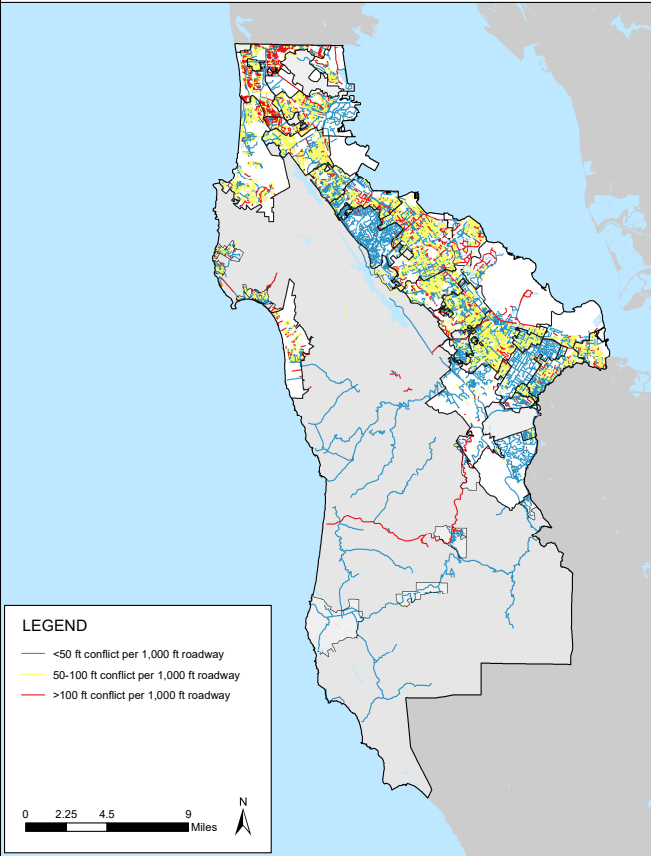
TECHNICAL SUITABILITY: SITE CONSTRAINTS



Available Width Constraints



Available Length Constraints



Major Utility Conflicts

