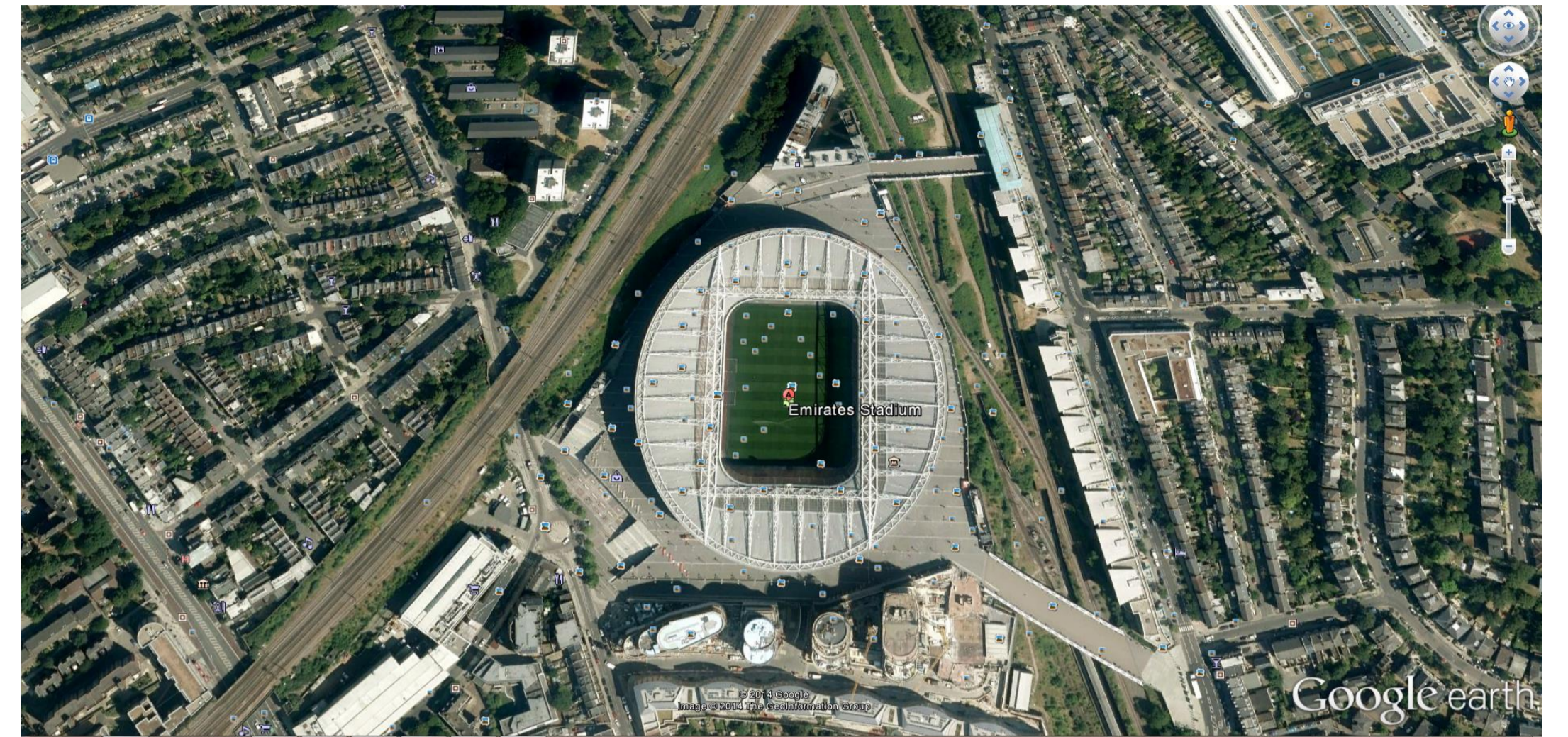


ENVIRONMENTAL NOISE STUDY

Environmental noise studies are part of our core area of Environment, Health & Safety solutions. A typical environmental noise study of the Emirates Stadium and its surrounding area was carried out as an in-house project.

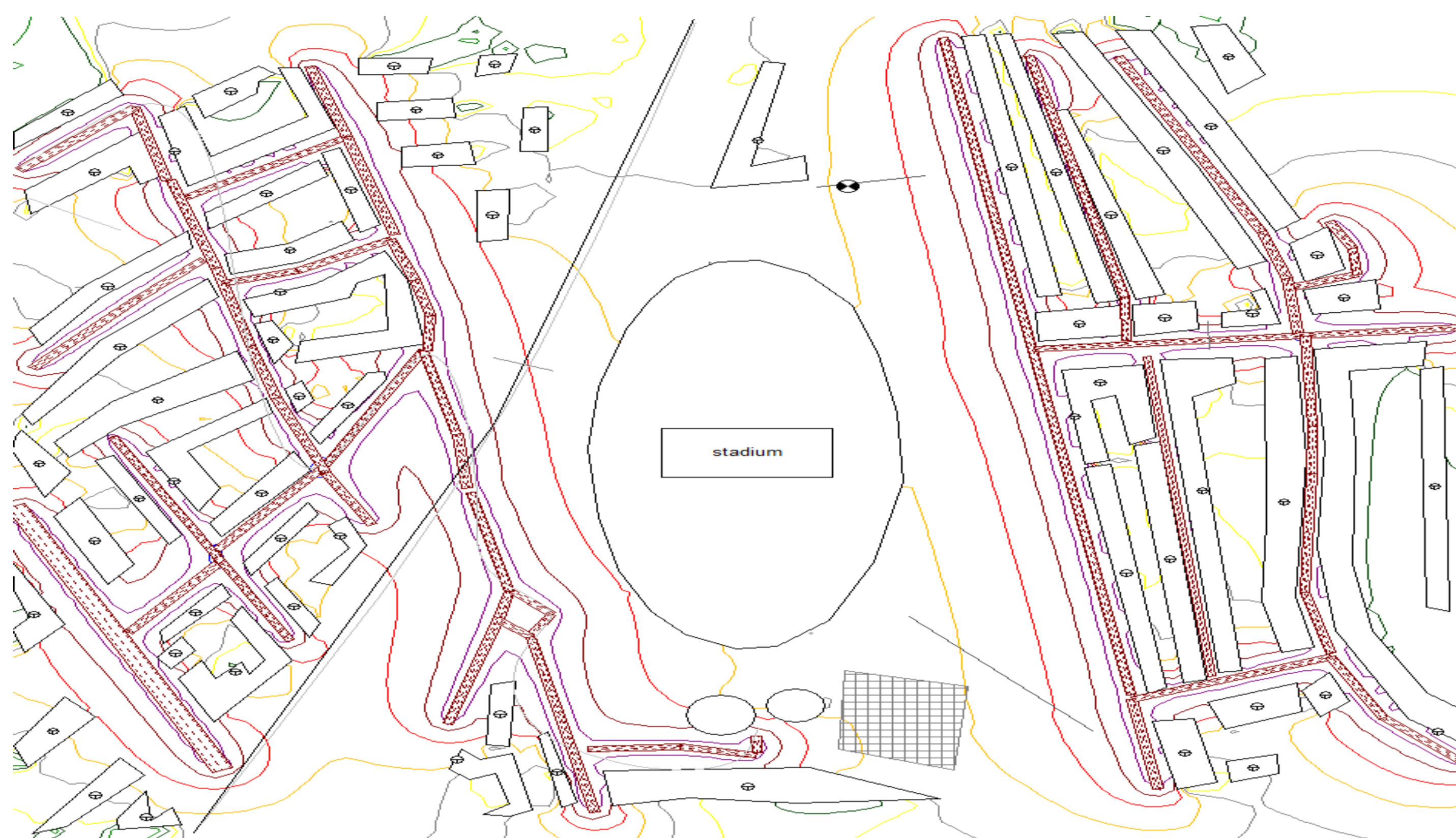


Bitmap from Google Earth

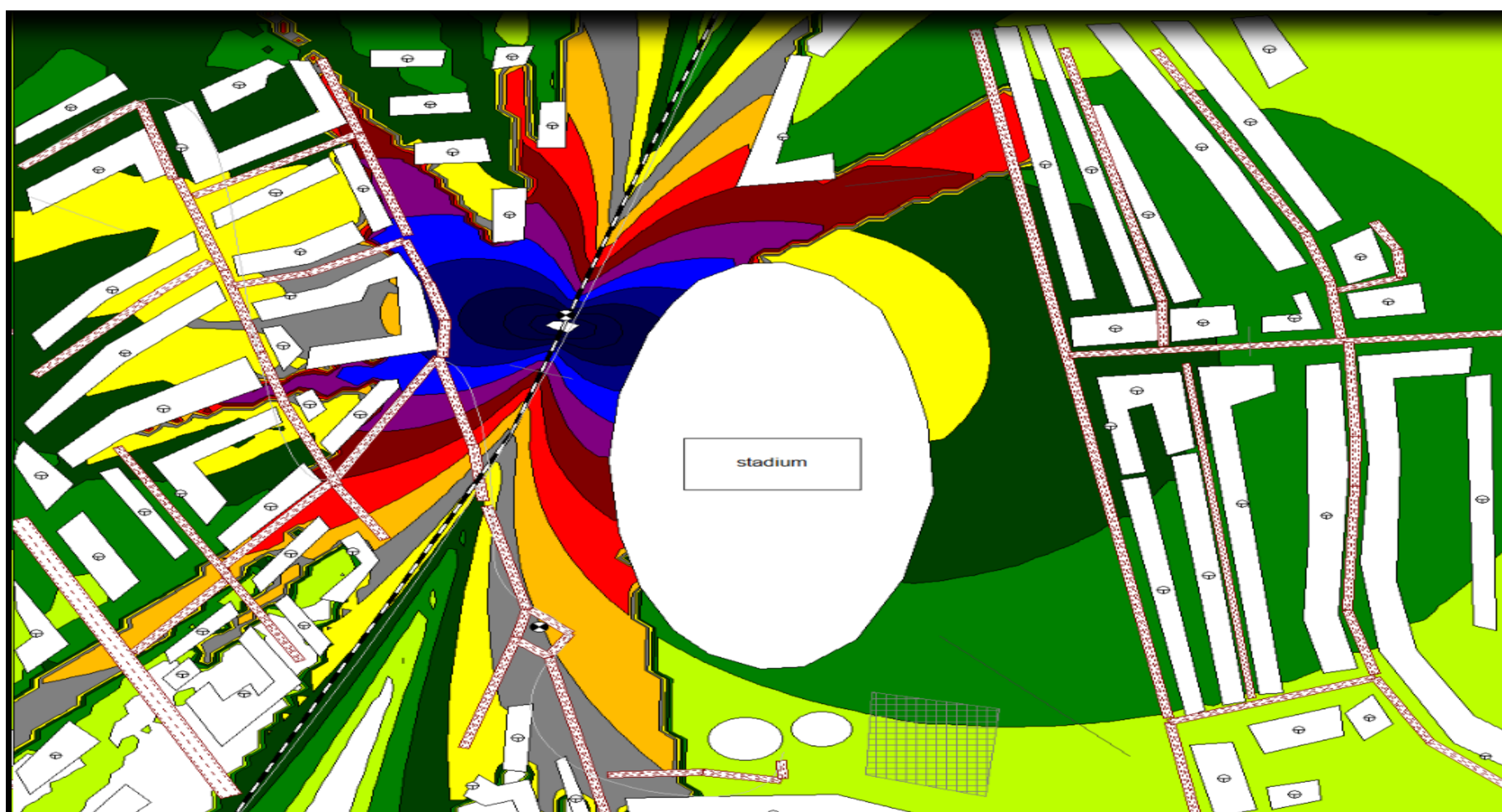
CadnaA; a state-of-the-art environmental noise prediction software has been used for this study.

Process

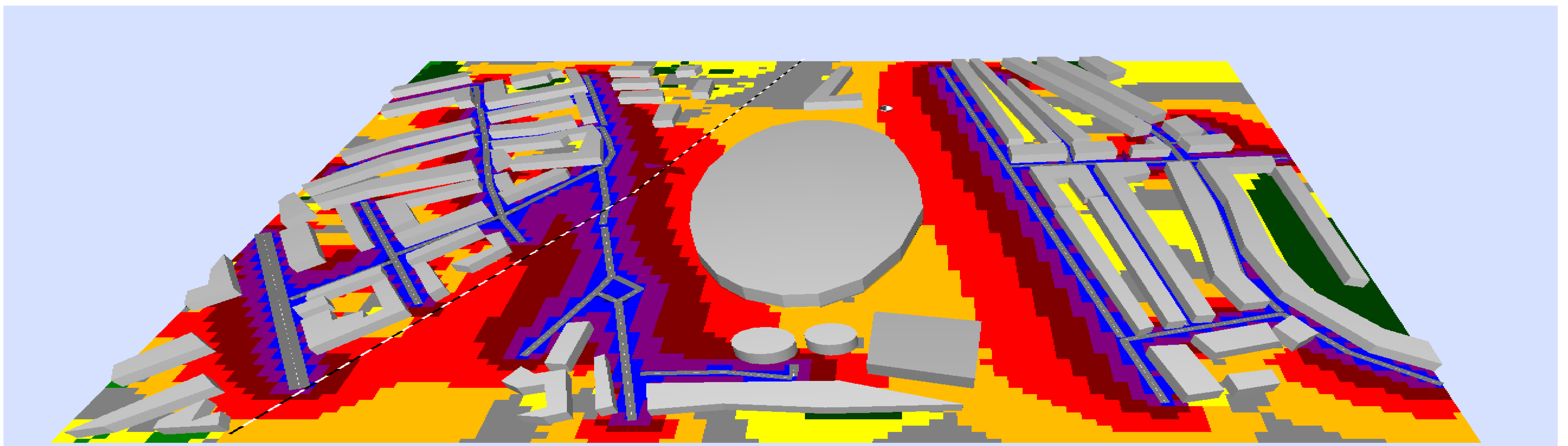
- Import bitmap from google earth.
- Construct buildings/roads/railways with bitmap as stencil.
- Run analysis and predict noise emission from various modelled sources (e.g. road traffic, train)
- Study impact of noise emission on built-up environment using;
 - Contour noise maps
 - Pass-by simulation of time history sound pressure level



Step 2: Construct noise model



Analysis: Pass-by simulation map



Analysis: Noise contour map