Emissions map concepts
For SB1371 Best Practice 20

François Rongere, Gerry Bong
GasOps R&D and Innovation
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Best Practice 20b, pursuant to SB1371, stipulates that utilities develop a **publicly available geographic map with leaks** displayed by zip code or census tract.

Utilities shall work together, with CPUC and ARB staff, to agree on a methodology to improve geographic evaluation and tracking of **leaks to assist demonstrations of actual emissions reductions**.

We have developed a **proof of concept map** showing 5 zip codes in Tri-valley.

The current method **focuses on methane emissions rather than number of leaks**. It includes “unknown” leaks or leaks that haven’t been found.
Proof of concept map in Tableau

Zip Code-Level Emissions Map

Min – Max for territory

Year
- (All)
- 2015
- 2016
- 2017

Zip code
- (All)
- 94550
- 94551
- 94566
- 94568
- 94588

Year over Year change

http://tableauqa.comp.pge.com/#/site/Gas/views/Emissionsmap5zipcode/Dashboard?iid=1  [need access right from Tableau admin]
Appendix
Methodology

For each zip code, year, material type, and pipe classification:

1. Extract # of leaks and miles of pipes surveyed

2. Extrapolate unknown leaks based on leaks found by survey

3. Add leaks reported by customer and employee call-ins to known leaks

4. Calculate known + unknown emissions using emission factors

For leaks found through survey, assume leaks start at the beginning of the year