

Biomonitoring California Scientific Guidance Panel Meeting *Community Exposures to Metals*

November 8, 2018, Richmond, CA

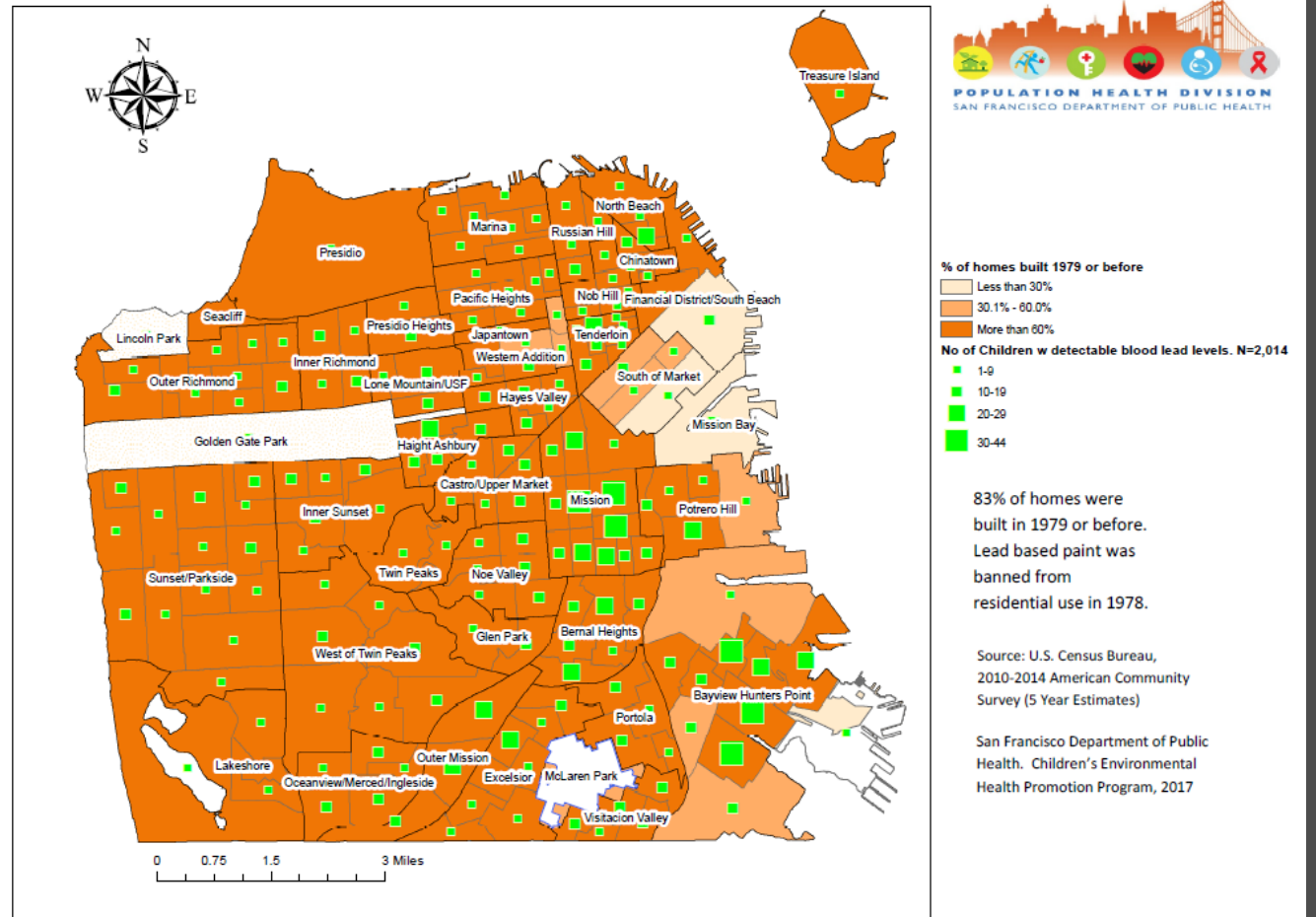
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Children's Environmental Health Promotion Program





San Francisco Homes Built 1979 or Before
 compared to No. of Children with Detectable Blood Lead Levels ($\geq 2\mu\text{g/dL}$) reported to DPH, 2013-2016





Old article but good article: <http://www.nytimes.com/.../worries-about-lead-for-new-yorks-g...>



Worries About Lead for New York's Garden-Fresh Eggs

A study suggests eggs from neighborhood gardens show elevated levels of lead, but whether the amounts are alarming is not clear.

NYTIMES.COM | BY JULIE SCELFO

Ayurvedic medicines that contain heavy metal ingredients in very low quantities



Figure 1. Ayurvedic medicine containing lead, mercury, and arsenic.

- Manashila – Also known as realgar
- Rasa Sindhura – A compound of purified mercury and purified sulphur
- Hingula – Cinnabar
- Gauripashana – Arsenic, Arsenic oxide
- Makaradhwaja – A compound of purified mercury, sulphur, and gold
- Haratala – Arsenic trisulphide
- Rasa Karpura – Hydrargyri subchloridum
- Girisindura – Red oxide of mercury
- Tuttha – Copper sulphate
- Parada – Mercury
- Sindhura – Red oxide of lead

Metal contaminants in mineral and herbal supplements

- ***DHZC-2 Chinese Herbal Supplement Recalled for Lead – August 2016***



- ***New York Company Recalls 11 Dietary Supplements Over High Mercury, Lead Levels – Sept. 2015***

Protecting Girls, Women and Fetal Development from Metal Toxicity

Heavy Metals in the Beauty Aisle

What they are, and how to protect yourself.

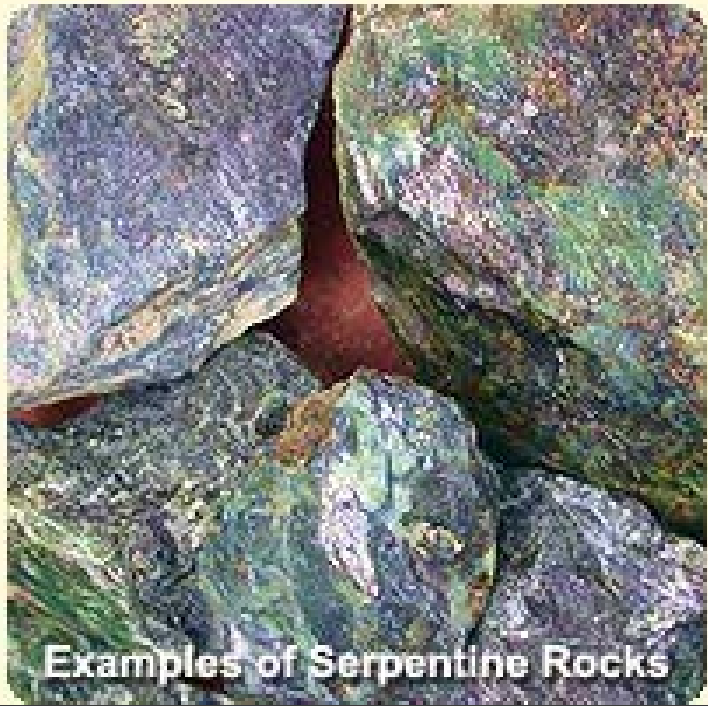


Lead Screening During Pregnancy and Lactation - ACOG

During pregnancy and lactation, lead from prior exposures can be mobilized from bones because of the increased bone turnover. Pregnant and lactating women with a current or past blood lead level of 5 micrograms/dL or higher should receive specific nutritional recommendations regarding calcium and iron supplementation.

Gollenberg AL, Hediger ML, Lee PA, Himes JH, Louis GM. **Association between lead and cadmium and reproductive hormones in peripubertal U.S. girls.** Environ Health Perspect. 2010;118(12):1782-7.



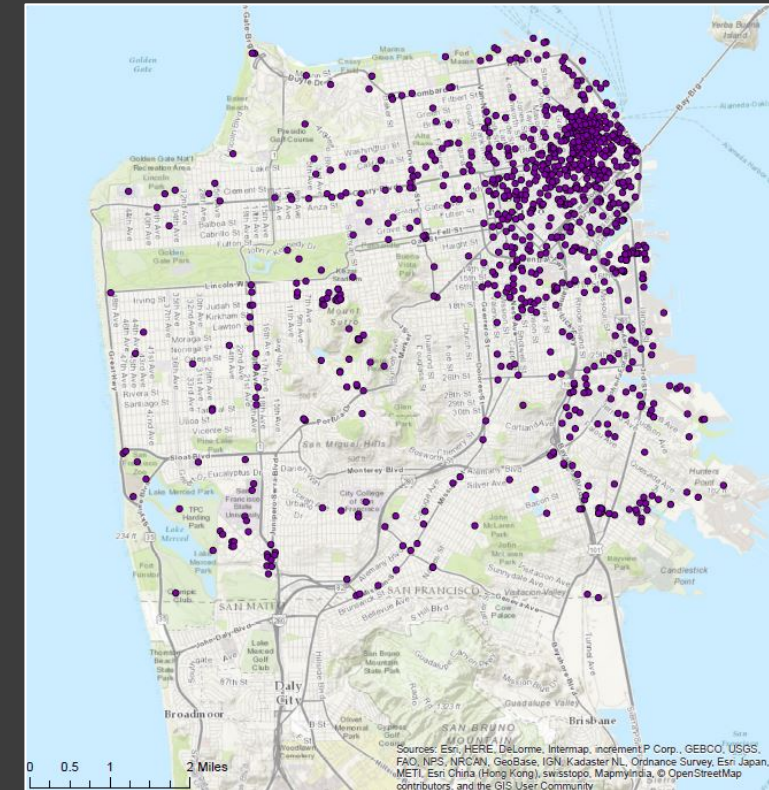
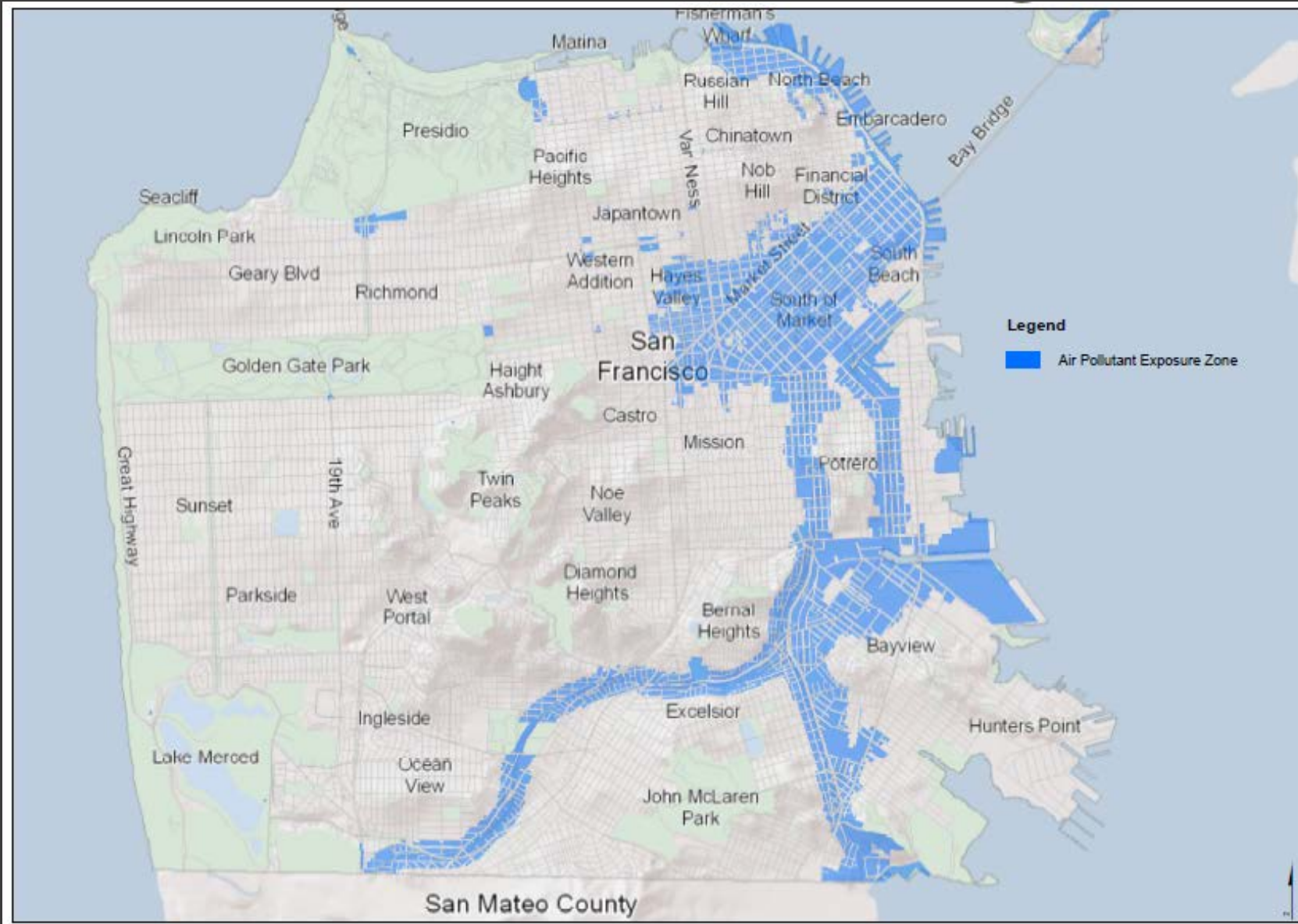


Examples of Serpentine Rocks



Community exposure concerns

Air Pollutant Exposure Zone and Stationary Sources with Permits





Climate change and wildfires

