



Supplement of

Observing local CO_2 sources using low-cost, near-surface urban monitors

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Figure S1: Hourly median values of the network-wide, regional CO₂ signals calculated for summer (orange) and winter (blue) 5 periods in 2013. Lighter colored curves indicate the standard error; note the difference in y-scale.



5 Figure S2: Normalized distributions of local CO₂ concentrations observed during summer 2017.



Figure S3: Normalized distributions of local CO₂ concentrations observed during winter 2017.



5 Figure S4: Hourly network-wide median local CO₂ and traffic flows observed during summer 2017. Lighter colored curves indicate standard error.



Figure S5. Morning (0400–0800 LT) local summertime CO₂ concentrations at LAN shown as a function of nearby highway traffic density. Darker points indicate the median CO₂ concentration observed in each 5 veh mi⁻¹ traffic density increment; black solid line indicates the linear regression through the binned medians (equation given above plot) and gray dashed lines show the uncertainty in the regression slope.



Figure S6. Multiple linear regression coefficients for five sites derived for each hour of the day on Mondays (orange solid line), Fridays (blue dashed line), and Saturdays (black dotted line) between 15 February 2017 and 15 February 2018.