

## Supplemental Materials



**Figure S1.** Aerial image depicting industrial facility (entire lower half of image) in relation to neighboring homes (upper half).



**Figure S2.** Map depicting industrial facility and city of Santa Ana within California.

**Table S1.** Summary statistics of PM<sub>2.5</sub> concentrations restricted to minutes when outdoor and indoor samples were collected simultaneously.

	<b>N<sup>a</sup></b>	<b>Mean</b>	<b>St. Dev.</b>	<b>Medan</b>	<b>Min.</b>	<b>Max.</b>
<b>Indoors by Type</b>						
Mobile (Personal)	1,344	114.8	128.5	77.5	16.3	1,000.0
Stationary	1,417	186.6	221.6	104.2	1.0	1,000.0
<b>Outdoors</b>	463	19.0	6.0	21.0	1.0	28.2

<sup>a</sup> The number of one-minute average measurements recorded by Atmotube device.

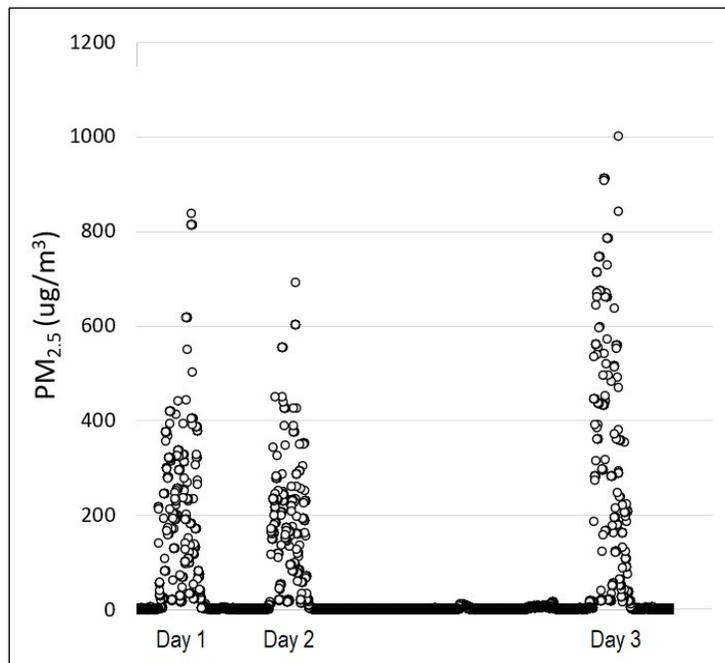
The following table presents summary statistics for PM<sub>2.5</sub> (µg/m<sup>3</sup>) concentrations for each sampling device averaged over both buildings during the three workdays. The table is distinct from Figure 6 in the main manuscript in that Table S1 includes not only the personal monitoring devices, but the stationary devices as well. Additionally, the table offers a more comprehensive summary of the data (e.g., min, max, etc.).

**Table S2.** Summary statistics for PM<sub>2.5</sub> (µg/m<sup>3</sup>) concentrations across all sampling devices averaged over three workdays.

<b>Type</b>	<b>N</b>	<b>Mean</b>	<b>St. Dev.</b>	<b>Min</b>	<b>Max</b>
Indoors (personal)	912	107.8	74.3	1	274
Indoors (personal)	1,533	34.8	19.6	8	147
Indoors (personal)	1,036	103.5	165.5	3	1,000
Indoors (personal)	511	118.6	110.3	1	728
Indoors (personal)	1,548	50.3	34.6	9	209
Indoors (personal)	1,533	210.9	193.7	3	1,000
Indoors (personal)	1,533	101.4	64.1	1	304
Indoors (personal)	1,548	33.5	18.5	1	112
Indoors (stationary)	1,353	106.2	60.5	1	275
Indoors (stationary)	1,533	30.5	25.7	1	88

Indoors (stationary)	1,037	92.1	119.6	1	1,000
Indoors (stationary)	511	184.2	140.8	1	988
Indoors (stationary)	1,548	127.5	116.0	1	786
Indoors (stationary)	1,532	406.1	315.1	14	1,000
Indoors (stationary)	1,548	99.2	113.6	1	1,000
Indoors (stationary)	1,533	31.6	13.8	2	75

Figure S1 presents an example of a three-day sampling period as measured by a personal air monitoring device that was carried by one of the welders (Worker 6) inside of the industrial facility. The figure is meant only to provide an example of the 1-minute data that was reported by the air monitoring instruments (without any post-processing averaging). As shown, the maximum 1-minute PM<sub>2.5</sub> concentration reached as high as 1,000 µg/m<sup>3</sup> on Day 3 within the facility, and exceeded 600 µg/m<sup>3</sup> on all three days for this worker.



**Figure S3.** Example of the three-day sampling period as measured by a personal air monitor carried by one of the welders (Worker 6) inside of the industrial facility.