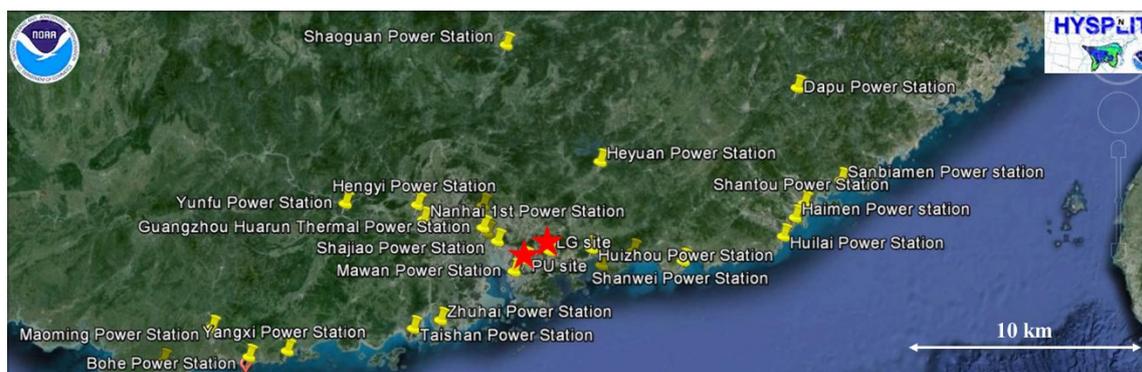


# Supplemental Materials: Effect of Pollution Controls on Atmospheric PM<sub>2.5</sub> Composition during Universiade in Shenzhen, China. *Atmosphere* 2016, 7, 57, doi:10.3390/atmos7040057

Nitika Dewan, Yu-Qin Wang, Yuan-Xun Zhang, Yang Zhang, Ling-Yan He, Xiao-Feng Huang and Brian J. Majestic



**Figure S1.** Map showing the location of the PU and LG sampling sites (shown as red stars) relative to the location of power plants in Guangdong Province.

**Table S1.** Principal component loadings of selected elements and ions for PU and LG sites during controlled periods.

Element	PC1: Combustion source	PC2: Residual Oil Combustion & Secondary Aerosols	PC3: Sea Spray
Fe	<u>0.574</u>	-	-0.415
Pb	<b>0.905</b>	-	-
Zn	<b>0.929</b>	-	-
Sb	-	-0.229	-
OC	<u>0.567</u>	0.641	-
K <sup>+</sup>	<b>0.882</b>	-	0.339
Al	<u>0.747</u>	0.314	-
NH <sub>4</sub> <sup>+</sup>	-	<u>0.737</u>	<u>0.556</u>
SO <sub>4</sub> <sup>2-</sup>	0.224	<u>0.675</u>	<u>0.651</u>
Cl <sup>-</sup>	-	-	<u>0.627</u>
V	-	<b>0.924</b>	-
Ni	-	<b>0.925</b>	-
Na <sup>+</sup>	<u>0.620</u>	-	<u>0.664</u>
Se	<u>0.714</u>	0.309	-
Mg <sup>2+</sup>	-	-	<b>0.887</b>
Eigen Value	4.68	3.47	2.30
% of Variance	31	23	15

Note: Variables with loading factors above 0.8 are in bold font and variables with loading factors between 0.5 and 0.7 are underlined and italicized. Blank values indicate loading factors <0.200.

**Table S2.** Principal component loadings of selected elements and ions for PU and LG sites during uncontrolled periods.

Element	PC1: Secondary Aerosols	PC2: Undetermined	PC3: Sea Spray	PC4: Residual Oil Combustion	PC5: Combustion Emission
Pb	-	0.384	-	-	<b>0.810</b>
OC	0.232	-	-	-	<b>0.868</b>
Se	-	<b>0.862</b>	-	-0.255	0.228
Cl <sup>-</sup>	-	-	<u>0.750</u>	0.288	0.374
Mg <sup>+2</sup>	-0.274	-0.454	<u>0.722</u>	-	-
Zn	-	-	-	-	-
Fe	0.443	-	-	-	-
Al	-	<b>0.909</b>	-	-	-
K <sup>+</sup>	<u>0.699</u>	<u>0.583</u>	0.217	-	-
NH <sub>4</sub> <sup>+</sup>	<b>0.908</b>	-	-	-	-
SO <sub>4</sub> <sup>2-</sup>	<b>0.899</b>	-	-	-	0.205
Sb	<u>0.794</u>	-0.380	-	-	-
Na <sup>+</sup>	0.233	0.436	<b>0.807</b>	-	-
V	-	-0.319	-	<b>0.836</b>	-
Ni	-	-	-	<b>0.927</b>	-
Eigen value	3.17	2.81	1.85	1.84	1.73
% of Variance	21	19	12	12	11

Note: Variables with loading factors above 0.8 are in bold font and variables with loading factors between 0.5 and 0.7 are underlined and italicized. Blank values indicate loading factors <0.200.



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