

Interactive comment on “Confirming anthropogenic influences on the major organic and inorganic constituents of rainwater in an urban area” by K. Chon et al.

Anonymous Referee #2

Received and published: 4 August 2015

This study assesses the impact of natural and anthropocentric sources on rainwater quality. The study presents data which in the future could be used for various studies related to environmental issues such as aerosols build-up, climate variability and extreme rainfall events etc. This paper can be accepted for publication but with minor revisions a) To increase the readability of study I would suggest the author to add a section on “framework and research design”. The section should clearly lay down the need and steps followed to study a) seasonal variation in chemical composition of rain-water b) variation in chemical composition of initial and subsequent rain events and c) enrichment factor to assess contribution of natural and anthropocentric sources.

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b) In Section 2.2-kindly add mathematical equation(s) to the methodology section indicating how VWMC was arrived at.

c) Section 2.2 line-16 - “Samples from initial precipitation events were collected with care not to be mixed with later precipitation samples” – this sentence is somewhat confusing. It’s not clear whether author is referring to a single rain event or multiple rain events in single day. Kindly elaborate the sample collection procedure in the methodology section to make it understandable.

d) Fig 11-The Trace metal variation in initial rain event samples was higher as compared to the subsequent samples. Following information would be needed to understand the trace metal variation in initial and?? incomplete I have few doubts related to this figure

1. Why numbers of initial rain event samples were different from the subsequent rain event samples?
2. As mentioned in section 2.7 -rain event samples were collected manually with time. What was the time between the two samples collected for analysis?
3. How was the sample collection period to formulate initial and subsequent samples for a rain event decided?

Interactive comment on Drink. Water Eng. Sci. Discuss., 8, 77, 2015.

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