This paper could be an important contribution to our knowledge on sediment quality in West Saronikos Gulf, as well as on the comparison of pollution levels in time.

I believe that this work will merit from an important restructuring (as also suggested by referee 1), where the aims defined in the introduction are also clearly addressed in the other sections (methods, results, discussion).

I do recognize the concern on sampling design of referee 2- this standard procedure of 1 core sampling, renders a statistical approach nearly impossible. The use of the multiple layers of the 1 core as replicates of a site, as suggested, could be a way to overcome this. Also, grouping the sites as west-east saronikos groups and comparing them, could also give a more clear and robust picture in the third aim of comparison between the two gulf parts.

Overall, I believe that if the authors do all the hard work needed and suggested by the two referees, the final contribution would be of use to many scientists and stakeholders working in the Saronikos gulf area.