



SDI Review Form 1.6

Journal Name:	American Chemical Science Journal
Manuscript Number:	2014_ACSj_11705
Title of the Manuscript:	Physico-chemical characterization of Lagoon of the Indians in Macapá-AP-Brazil
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	The main weakness of this manuscript is the statistical analysis. In line 73 authors mentioned: "Statistical analyzes were performed with BioEstat 5.0 software". However, they do not mention what statistical analysis was performed. In my opinion one of the most suitable analyses would be T-test or other similar to compare dry and wet period. To compare differences between sampling points I advise the use of Kruskal-Wallis Test. The statistics presented in table 2 is not enough and do not explain the obtained data. Besides no significant level is shown.	Kruskal-Wallis test and t-test performed as recommended.
<u>Minor</u> REVISION comments	Line 19: What kind of infrastructure? Line 29: Maybe is better to use the term temporary lakes instead of undertow? In the line nº 37 authors mention the hangovers. Clarify better this terminology please. Line93: What statistical analysis was done? And where are the results of the analysis? How do you know that significant differences were find? For what significance level? Fig 3: This is the same of Fig 2. There are no pH, DO or Mn values. Line 215: "pluviosity significantly" how do you know? Where is the statistical analysis.	The term hangover is traditionally used and scientifically adopted in most studies in the Amazon! Therefore irreplaceable in the context discussed in the article. Regarding the definition the term hangover He is described in simplified form in lines 29-36. Regarding the repetition of figures, they were replaced for data tables.
<u>Optional/General</u> comments	Therefore I am of the opinion that the manuscript is publishable, however authors should reformulate statistical analysis.	