



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	2015_PSIJ_16789
Title of the Manuscript:	APPLICATION OF EDXRF IN THE DETERMINATION OF THE ABUNDANCE AND DISTRIBUTION OF ARSENIC ALONG A FEDERAL HIGHWAY IN NORTHERN NIGERIA
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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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)
Compulsory REVISION comments	Title: the title of the paper" APPLICATION OF EDXRF IN THE DETERMINATION OF THE ABUNDANCE AND DISTRIBUTION OF ARSENIC ALONG A FEDERAL HIGHWAY IN NORTHERN NIGERIA". Why was this highway selected? As in the paper the author has discussed the arsenic pollution due to pesticides. Was the highway passing through agricultural lands? Kindly mention if so. - The author is advised to kindly look at the page setup as there are some tables slipping from one page to another. Also review the paper to remove any grammatical errors. Abstract: The abstract is very descriptive, Kindly work a little on it. Make it concise. In the Abstract of the manuscript it is said. "Observed arsenic concentrations were not due to vehicular emission alone". There is no report of arsenic pollution due	The same highway was used to investigate the composition and distribution of lead in soil. The highway has a busy traffic of students and petty traders; so health concern was also a key factor for choosing the highway which also passes between expanses of farm lands. These have been done. An attempt has been made to make it concise. This has been corrected.



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	to vehicles. 5. Material and Methods: Kindly have a look at this portion. It is like the author has written about the instrument, while he explained the theory of XRF fully in Instrumentation. Consult a few papers 6. Instrumentation: in this portion mainly the instrument model and made is described. Further, the author has described theory of XRF in the instrumentation as well as a separate portion in the paper. 7. Sample Collection and Preparation: What type of statistical design was selected for sampling (simple random sampling, stratified sampling, grid sampling, etc)? Also in line number 4 of the second paragraph the author mention that the sample was pelletized at 10 tons. At 10 tons what? Kindly mention correct pressure unit. 8. In short: The work is good but needs to be organized and presented in a better way	This portion has been restructured. The portion has been expunged. Simple random sampling design was employed. Proper unit (tons/sq. inch) has been used.
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Minor REVISION comments	1. Result and Discussion: The author is advised to kindly discuss variation of the pollutant with depth and distance from road side etc separately. This will make a good impact on the readers. 2. Figures: kindly draw all the figures using the same coordinate values. This will leave a good impression on the readers. Concentration value in some figures is up to 40 ppm while in the later two it extends to 100 and 120 ppm respectively.	Discussion has been separated as suggested. The vertical axes have been harmonized.
Optional/General comments		