



**SDI Review Form 1.6**

Journal Name:	<a href="#">Current Journal of Applied Science and Technology</a>
Manuscript Number:	<b>Ms_CJAST_48874</b>
Title of the Manuscript:	<b>USE OF AQUATICPLANTS IN MINE WASTEWATER PURIFICATION</b>
Type of the Article	<b>Original Research Article</b>

**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**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<b>Compulsory</b> REVISION comments	<p>This manuscript presents an interesting study on the use of aquatic plants for the treatment of mining wastewaters. However, the methodology and results of this manuscript are poorly presented. This manuscript needs substantial improvements in different aspects. Considering that this manuscript presents an inexpensive method for wastewater treatment and as the experiments in this study were conducted on real wastewater samples, I think that the manuscript may be accepted after major revisions.</p> <p>I've not listed all of the issues in the manuscript. The authors must carefully read their manuscript and screen out the grammatical and technical issues in the revised version. Some specific comments regarding the quality of the manuscript are listed as follows:</p> <p>1-Title: "AQUATICPLANTS" typo                  2-Title: I suggest using the word "remediation" instead of "purification" in the title. Purification indicates complete removal of contaminants which is difficult to attain using aquatic plants.                  3-The summary does not report any information regarding the results obtained from the experiments.                  4-summary "elemental analyzes" should be changed to "elemental analysis."                  5- "... cultivation of Carolina azolla, Pistis teloreous and Eichhornia crassipes...."                  Contact time of plants with wastewater should be stated.                  6-The First and second paragraphs of the introduction need references of used sources.                  6-"Currently, there is a number of solutions in the field of water protection related to the mechanical, physic-chemical and biological treatment of polluted water." This sentence has no content. Please specifically state the treatment methods/solutions.                  6- Introduction "... aquatic plants [7, 10, and 11]."                  In this manuscript the reference numbers in the text start from 7. The cited references must start from 1 with a cardinal format. In addition, remove the word "and" from the reference numbers.                  7- Objects and methods of research: measurement methods must be explained.                  8- Objects and methods of research. What do you mean by "oxidability"?                  9-Use singular format for water quality constituents. Hence, "nitrates, phosphates, carbonates, sulfates" should be changed to "nitrate, phosphate, carbonate, sulfate"                  10- "botanical studies proposed by V. Papchenkov." Please add the study year and its related reference number.                  11- "g / m" must be changed to "g/m" and "(1: 1)" to "(1:1)"                  12- " When diluting wastewater with tap water (1: 1) for the first three days, aquatic aquatic plants adapted to their growing conditions." Typo: aquatic.                  13-Table 1: what was the study year?                  14-Tables: "mg/l" should be changed to "mg/L".                  15- Add the anionic or cationic charges of water quality constituents.                  16-The names of plant species everywhere in the manuscript should be in italics.                  17- "water and air temperature, etc. . [7,10-14]" typo.                  18-Table 1, what do you mean by "dilute Water (1:1)"? 1:1 means that the raw wastewater samples were not diluted with water. Does this mean that you added the same volumes of water and wastewater for diluting the wastewater, i.e. a dilution factor of 2?                  19-Adding a photo of plants would help the readers to appreciate the wastewater effects on the plans.                  20-"When diluting wastewater with tap water (1: 1) for the first three days, aquatic aquatic plants adapted to their growing conditions." Is 1:1 the volumetric ratios of wastewater and water? This indicates a dilution factor of 2, it this correct?                  21-Dilution of wastewater samples must be done using deionized or distilled water, to</p>	



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	<p>ensure no constituents will be added to the wastewater samples. Tap water contains numerous constituents and thus the concentration of water quality constituents in the diluted samples cannot be determined based on the dilution factor. This study has used tap water for diluting the wastewater sample, which is not technically correct. Therefore, at least the concentrations of water quality parameters of the tap water should be presented in the manuscript. 22-What is "Sog., mg C/l" in Table 1? 23-How did you determined "oxidizability, mg O2/l" in Table 1? Explain the measurement method in your Methodology section. 23-"The duration of the experiments - 7-10 days." The authors must accurately and clearly state the duration of each experiment. 24-Table 2 shows a 2 to 4 times increase of biomass during 7 to 10 days, is this correct? This seems to be very high. I urge the authors to add photos of their plants before and after their experiments. Additionally, the authors must compare the growth rates of their plants with other studies, or at least the authors should compare the growth rates of their plants with species of similar families in the literature to justify the high growth rates of their plants. 25-Removal efficiency of each water quality constituents should be reported in the manuscript. 26-This manuscript needs a careful English proofread.</p>	
<b>Minor</b> REVISION comments		
<b>Optional/General</b> comments		

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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