

## Project Proposal Summary

<b>Rotarian Peace Projects Incubator's Thematic Area</b>	<b>Climate Change and Peace</b>
<b>Rotary Focus Area</b>	<b>Promoting Peace</b> <b>Providing Clean Water</b> <b>Supporting Education</b> <b>Growing Local Economies</b>
<b>Contact:</b> Contact person within your group (Name and email)	<b>Rose Osinde-Alabaster</b> <a href="mailto:rose.alabaster@wehdi.org">rose.alabaster@wehdi.org</a>
<b>Project Title:</b> Provide a full title (and acronym if any)	<b>Promoting responsible ASM practices and monitoring of water quality in mining communities in Ghana</b>
<b>Project Partners and Participating Organisations:</b> List all your project partner organisations, including participating Rotary clubs and districts if any	<ol style="list-style-type: none"> <li>1. WEHDI</li> <li>2. University of Geneva (UNIGE), Department of Aquatic Sciences, Environmental microbiology group</li> <li>3. Rotary Club Accra, Ghana</li> <li>4. Local government and community partners</li> </ol>
<b>Geographical Scope</b>	<b>Mining regions in Accra Ghana</b>
<b>Summary:</b> Please provide a concise summary with a maximum of 500 words outlining the project and explaining the community needs your project will address and how these needs were identified.  Ensure that you include what your project aims to achieve (objective) and how (method/procedure). What will be the main outcomes?  Explain in a few sentences how you will incorporate the objective of	<b>Context:</b> The Artisanal and Small-scale Mining (ASM) in Ghana is not yet formally organized, thus promoting illegal mining and local level conflicts. In Ghana, the quality of groundwater and surface water resources keeps worsening mainly due to soaring levels of pollution from "galamsey" (illegal mining), waste and from chemicals from mining.  <b>Objectives:</b> To investigate the drinking water quality status of various surface and ground water sources used for personal and domestic uses by mining communities in Ghana and strengthen capacities for water quality monitoring.  <b>Activities &amp; Methodology:</b> Action would include: a) Environmental and social assessment and governance and political economy assessment on current water quality monitoring capacities and available data; c) Geo-spatial mapping of water sources for domestic and personal use by households in the mining communities; d) Water sampling (rivers, streams and wells) for physico-chemical and bacteriological analyses (entailing field analysis and specific analysis for

<p>sustainability into your project.</p>	<p>toxic heavy metals) upstream, effluent discharge, and downstream water sources with seasonal (wet/dry) considerations - using adapted analysis protocols + Qualitative analysis, data interpretation and concrete recommendations;</p> <p>f) Training of technical personnel and community women water managers using adapted sampling and analytical protocols and testing kits/microprobe for toxic heavy metals and fecal bacteria.</p> <p>g) Citizen science through climate and peace youth club (selected schools in the target areas</p> <p><b>Outcomes:</b> i) Status report on access to safe water for mining communities in the study sites including the environmental and social assessments;</p> <p>ii) Database/story-maps of water quality of water sources in the mining communities - story-maps with info on pollutants concentrations and water quality parameters;iii) Published report with physico-chemical and bacteriological data with key recommendations to better protect local communities' health, food sources &amp; livelihood. Iv) Training and concrete actions for accelerating access to community water safety and setting up a sustainable monitoring by communities of the chemical and biological contamination of water resources.</p> <p><b>Sustainability:</b> This will be attained through working with local partners and institutional capacity strengthening.</p>
<p><b>Beneficiaries:</b> Who are the beneficiaries? Please include the estimated number of direct beneficiaries</p>	<p>Relevant government departments for water quality monitoring. This project will be beneficial to Accra mining districts and downstream communities.</p> <p>Estimated beneficiaries 2.1 million</p>