



SUSTAINABLE DEVELOPMENT GOALS

6 CLEAN WATER AND SANITATION



2022 REPORT



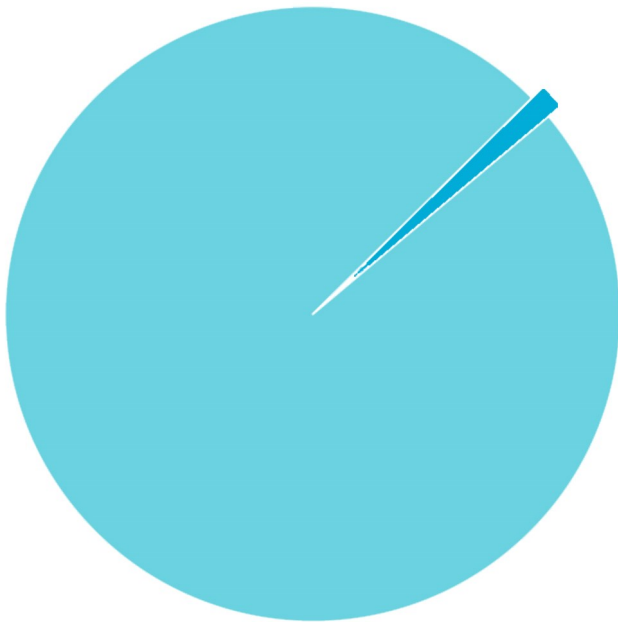
ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

1481.60 m³

Total Water consumption

18.944 m³

Consumption of Drinking Water



1,462.655 m³

Consumption of Water for General Use



Provision of
free drinking water
for Employees and Students



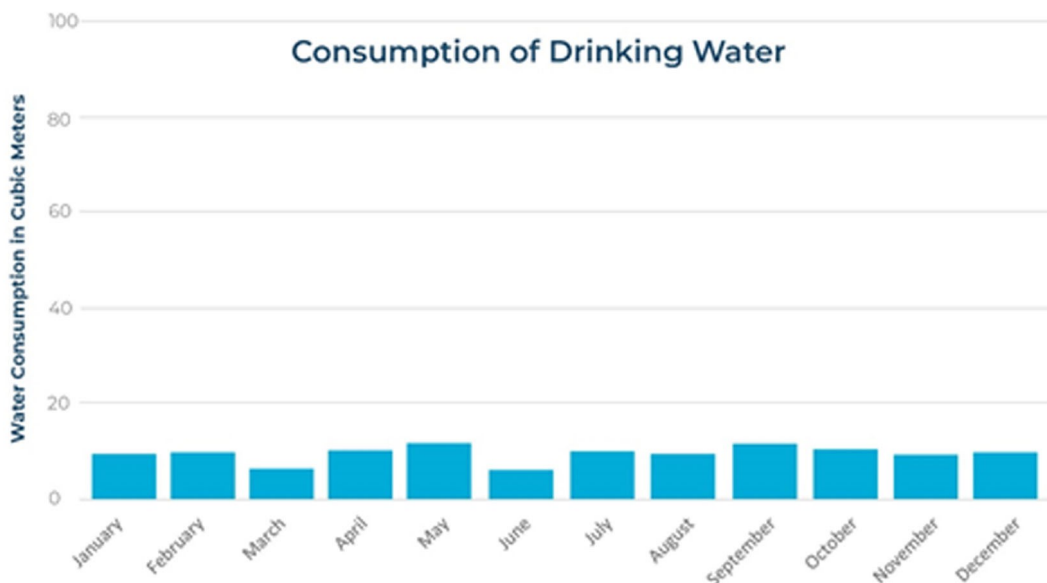
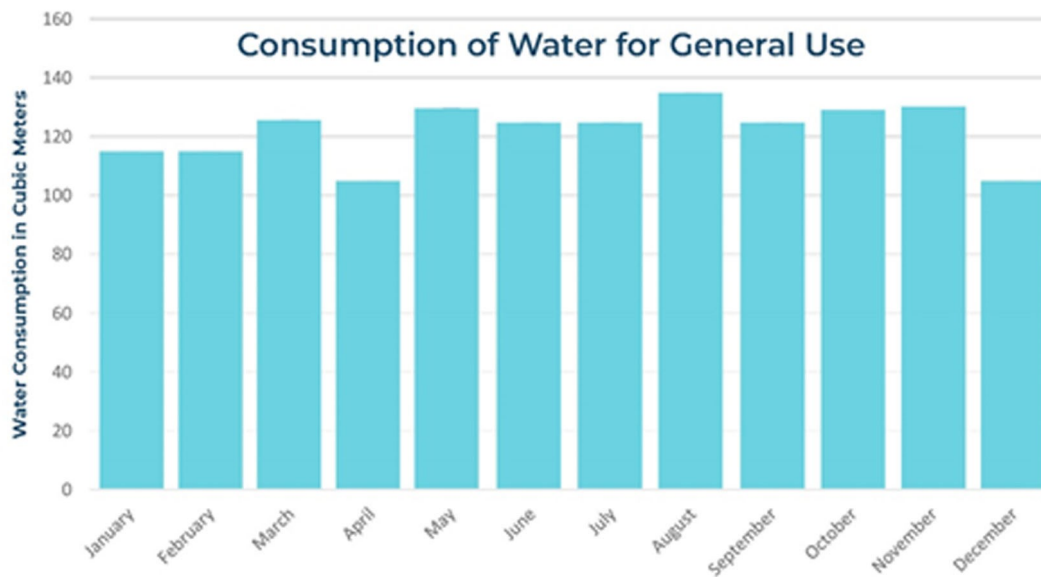
Hygiene and Sanitation Initiatives



The Mountain Province State Polytechnic College (MPSPC) is committed to contributing to the achievement of Sustainable Development Goal 6 (SDG 6) - Clean Water and Sanitation. In 2022, the institution undertook various initiatives to measure and manage water consumption on campus, provide free drinking water for employees on campus, and conduct research projects related to water security in collaboration with local government units (LGUs) to address water challenges in indigenous communities.

Measurement of Water Consumption on Campus

MPSPC took a proactive step in understanding and managing water consumption within the campus. Through comprehensive measurement efforts, the volume of water consumed for both drinking purposes and general maintenance at the Bontoc Campus was measured. A total of 1481.60 m³ of water was used in the Campus for the year 2022. 18.944 m³ accounts for drinking water which is purchased from a local supplier bought at PhP40.00 per 16L. The volume of 1,462.655 m³ is for general use, such as for cleaning and flushing the toilets, but not for drinking. It is fetched from the nearby Chico river. Meanwhile, water for general use in satellite campuses, such as the Tadian Campus, is sourced out from deep wells through pumps and harvested from the rain during rainy season but has not been considered in the presented values. This data serves as a foundation for implementing water conservation measures and promoting responsible water usage among our campus community.



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Provision of Free Drinking Water for Employees and Students

MPSPC recognizes the importance of access to clean drinking water for the well-being of the campus community. In line with this, free drinking water is provided for employees and students on campus. This initiative ensures that everyone within the MPSPC community has easy access to safe and potable water, promoting hydration and overall health.



Water dispensers are provided in offices and along the corridors for easier access of faculty, staff, and students in campus

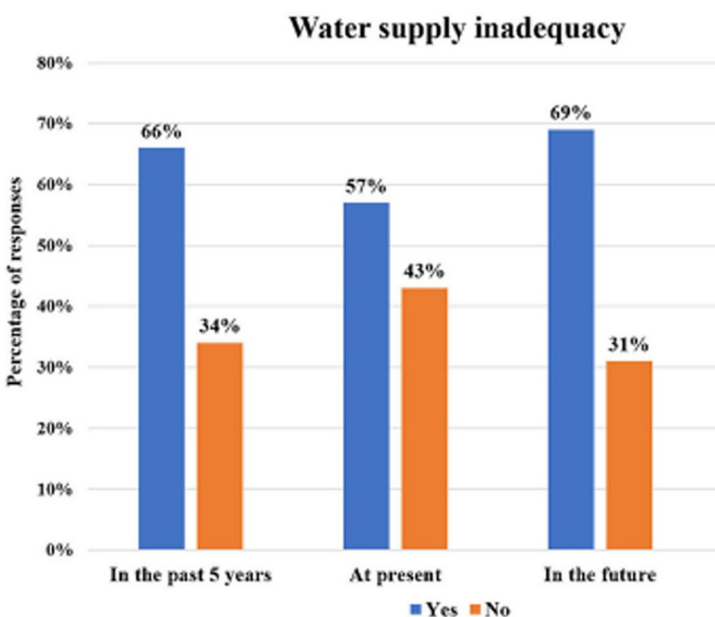
Research Project: Safe and Secure Water Supply for Mountain Indigenous Communities

In collaboration with the local government unit of Bontoc, MPSPC implemented a research project funded by the National Research Council of the Philippines that focused on ensuring safe and secure water supply for mountain indigenous communities. This project aims to address water security issues by identifying sustainable solutions and implementing measures to improve access to clean water in these communities. By actively conducting this research, MPSPC demonstrates its commitment to extending the benefits of clean water beyond the campus boundaries:

Under this project, MPSPC successfully completed two significant research activities in 2022, each contributing to the understanding and improvement of water supply management:

a. Challenges Faced by the Municipal Water Works Management

This research delves into the challenges encountered by municipal water works management in improving water supply adequacy and distribution. The study identified two primary issues in rural communities: supply inadequacy and unequal distribution. Supply inadequacy is attributed to factors such as wasteful water use, water scarcity during prolonged dry seasons, limited water sources, and population growth. Uneven distribution results from factors like landslides, illegal tapping, irregular water quality, insufficient monitoring of quantity and pressure, and inadequacies in the water distribution network layout. The study suggests several crucial actions for the local government unit (LGU) of Bontoc to improve water supply adequacy and distribution. The actions include the following:



- Improving the water supply system by increasing the number of water sources, constructing additional reservoirs, and rehabilitating existing water sources.
- Reducing water wastage by repairing leaks and replacing old pipes.
- Improving the water distribution network by installing additional pipelines, increasing the number of water tanks, and improving the layout of the water distribution network.
- Improving water quality by conducting regular water quality tests and implementing measures to prevent contamination.
- Increasing public awareness about the importance of water conservation and the need to pay water bills promptly.

By implementing these actions, the LGU of Bontoc can improve water supply adequacy and distribution, which is aligned with SDG 6's goal of ensuring access to water and sanitation for all.

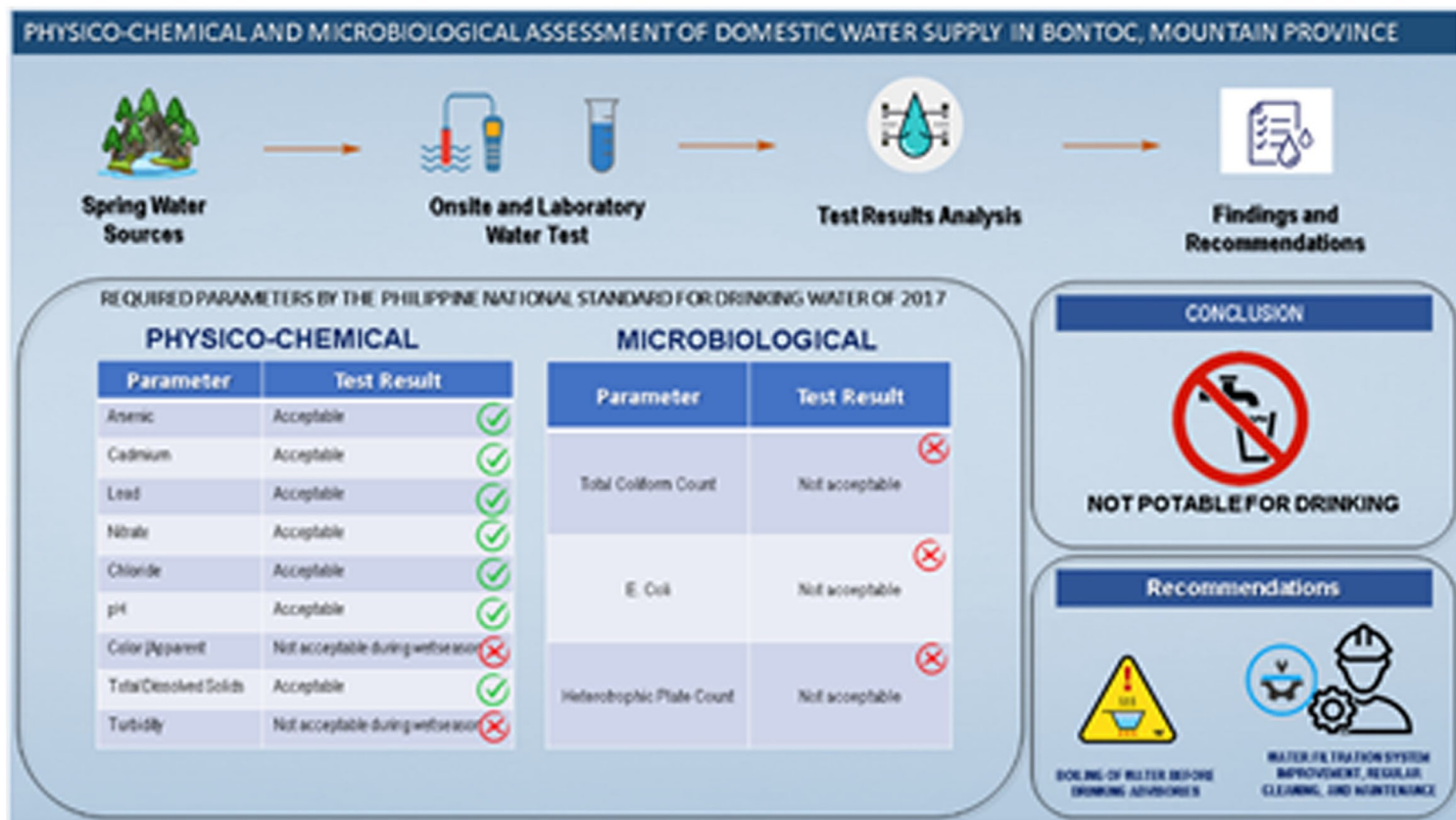


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b. Physico-Chemical and Microbiological Assessment of Domestic Water Supply of Bontoc, Philippines

Addressing the quality of domestic water supply, this research project assesses the physico-chemical and microbiological aspects of water in Bontoc, Philippines. The study found that the water quality in Bontoc is affected by human activities such as waste disposal and agricultural practices, which can lead to microbiological contamination. The findings of this research provide crucial information for implementing measures to ensure the safety and cleanliness of water sources toward safe and affordable drinking water for all by 2030.



Hygiene and Sanitation Initiatives



The faculty members and students of the Department of Nursing, in collaboration with the Philippine Nurses Association, conducted a health education campaign covering oral health, hand hygiene, and rabies awareness on November 4, 2022. This initiative contributes to SDG 6 by promoting overall health and well-being within the community, emphasizing the importance of proper hygiene practices through basic hand washing. One hundred forty-four (144) school children, teachers, and some barangay officials benefitted from the activity.

In conclusion, Mountain Province State Polytechnic College has made substantial progress towards SDG 6 in 2022. Through the enumerated initiatives, MPSPC actively contributes to the promotion of clean water and sanitation. The institution remains dedicated to addressing water challenges both within its campus and in collaboration with the broader community.

MPSPC is committed to expanding its efforts in water conservation, sustainable water supply management, and addressing water quality concerns. It builds on the foundation laid in 2022 to further its impact on achieving SDG 6 in the years to come.



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