

IMPACT OF ALCOHOL INDUSTRIAL WASTE ON NATURAL RESOURCES.



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Introduction

- The alcohol industry is one of the most popular among all industries and a key contributor in the world's economic growth, **but unfortunately, these industries are also considered one of the major sources of harm to natural resources.**



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Why are alcohol distilleries growing?

- The alcohol distilleries are growing extensively worldwide due to widespread industrial applications of alcohol such as in chemicals, pharmaceuticals, cosmetics, beverage, food , and many others



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How alcohol industrial waste has impacted natural resources

- Although the alcohol industry contributes significantly to economic growth and development, alcohol industrial waste is having a detrimental impact on natural resources causing harm and contamination to:
 1. Air
 2. Water
 3. Soil
 4. Disruption of aquatic
 5. Forest ecology.



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Definitions; Alcohol Industrial waste

- Substances or materials that are produced as a by-product and are of no further use after the manufacturing process is over eg, dirt, gravel.

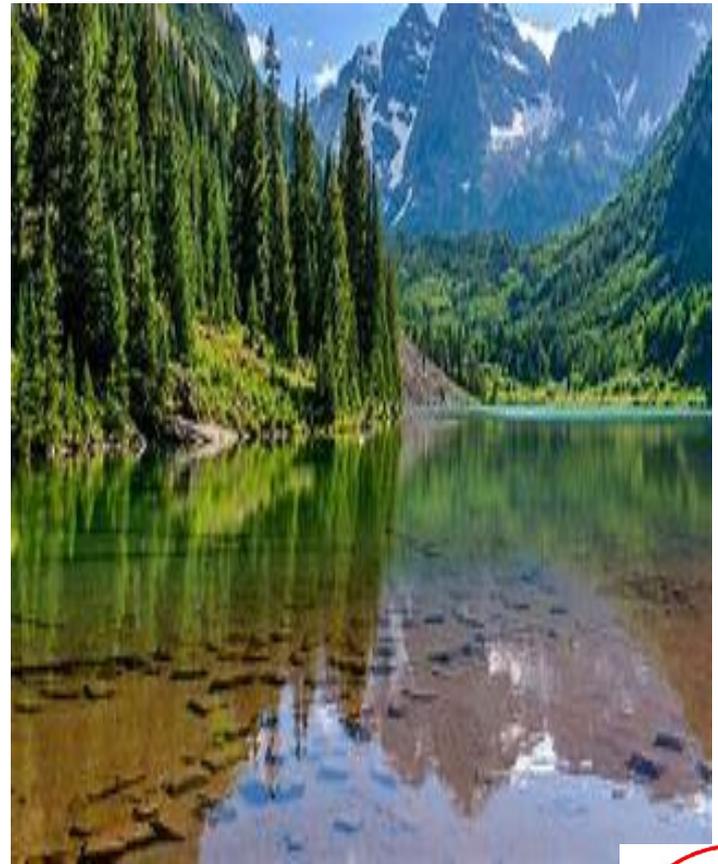


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Definitions; Natural resources

- are *materials created in nature that are used and usable by humans.*



Examples of natural resources

1. Sunlight
2. Air
3. Water
4. Soil
5. Plants
6. Stones

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Impact of Alcohol Industrial Waste on water

- **Alcohol industry wastewater** is highly toxic for the aquatic and the terrestrial eco-system. This wastewater contains a high concentration of biological oxygen demand, chemical oxygen demand, total solids, organic matter, potassium and sulphates and high acidic characteristics.
- Due to fresh water scarcity, farmers are using polluted water for irrigation and some for household use.



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Impact of Alcohol Industrial Waste on soil

effluents released by the alcohol industries such as distillery, tanning, textile also contains different sources of heavy metals, sodium and other salts and organic chemicals.



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Impact of Alcohol Industrial Waste on Air

Making ethanol industrially will create air pollutants such as **volatile organic compounds, sulfur dioxide and carbon monoxide.**



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CONCLUSION

- Sustainable economic development along with environmental considerations is required to make the earth habitable for future generations. In this perspective, green development, green growth, green technology and a pollution free environment are urgently needed to improve the habitat for humans and thus reduce the mortality rate.
- A clean environment is necessary for the better health of living organisms. Therefore, our environment must be protected as environmental issues has top priority in the Afro Region.

THANK YOU

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