



ICGRC 2022

THE 13th INTERNATIONAL CONFERENCE ON GLOBAL RESOURCE CONSERVATION

Integrating Conservation and Sustainable Development through Biosphere Reserves

ABSTRACT BOOK

JULY 25 - 26, 2022 MALANG- INDONESIA

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Proceeding team : Dian Siswanto, S.Si., M.Sc., M.Si., Ph.D.

Dr. Muhammad Yusuf, S.Si., M.Si

| Time | Abstract Code | Abstract Title | Name of Participants |
|---------------|---------------|---|----------------------|
| 13.50 - 14.00 | ENV/O-006 | CATALYTIC DECOLORIZATION OF RHODAMINE B BY COMBINED PROCESS OF SBE/ZNO AND O3/UV: OPTIMIZATION USING RESPONSE SURFACE METHODOLOGY | Arlita Dwi Agustine |
| 14.00 - 14.10 | Discussion | | |
| 14.10 - 14.20 | ENV/O-007 | THE READINESS OF SCHEDULED FAECAL SLUDGE SERVICE (CASE STUDY: SUKOLILO DISTRICT) | Fathyah |
| 14.20 - 14.40 | ENV/O-008 | STUDY ON UTILIZATION OF ASH FROM INCINERATION PROCESS OF HAZARDOUS AND TOXIC WASTE PT. KAWASAN INDUSTRI MAKASSAR | Maitsa Fikri Nabila |
| 14.40 - 14.50 | ENV/O-009 | IMPROVEMENT OF TECHNICAL PERFORMANCE IN MAKASSAR NIPA-NIPA SLUDGE TREATMENT PLANT | Nita Arina Fahmi |
| 14.50 - 15.00 | ENV/O-010 | MICROBIOLOGICAL QUALITY OF RIVER WATER IN THE PROVINCIAL CAPITAL AS RAW MATERIAL FOR DRINKING WATER IN INDONESIA | Herniwanti |
| 15.00 - 15.10 | Discussion | | |

^{*)}On-site

ENV/O-010

MICROBIOLOGICAL QUALITY OF RIVER WATER IN THE PROVINCIAL CAPITAL AS RAW MATERIAL FOR DRINKING WATER IN INDONESIA

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Abstract

Indonesia has natural resources of river water, which functions as a source of drinking water. The quality of the river water needs to be maintained, especially for the microbiological parameters to ensure the community consumes clean water and also indicator of the environmental preservation. Indonesia's environmental statistics in 2021 released data on river water quality in 34 provinces in Indonesia. The purpose of this study was to determine the microbiological quality of river water in the provincial capital. This research method uses secondary data from the Indonesian environmental statistics document in 2021 to see the quality and compare with quality standards for drinking water sources for microbiological parameters (Fecal coli and E. coli). The results of the study compared with quality standards based on The Minister of Health Regulation No. 32 of 2017, all river water in urban areas in 34 provinces in Indonesia does not meet the quality standards. The lowest quality is the Code River in Yogyakarta, with the lowest Fecal coli value 180, the highest 1,600,000 and an average of 100,026. For the lowest E. coli value 0, the highest 1,600,000 and an average of 100,051. This means that there is no suitable river water in urban areas to be used as a source of drinking water by the community. This information needs to be disseminated to the local community in order to avoid the disease. The need for attention from the government as well as public awareness to maintain the cleanliness of the environment around the river.

Keywords: river water, drinking water, raw water, Indonesia, microbiology

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June 30, 2022

LETTER OF ACCEPTANCE

Dear Dr. Herniwanti, S.Pd, Kim., M.S,

On behalf of the committee, we are pleased to confirm that your abstract,

MICROBIOLOGICAL QUALITY OF RIVER WATER IN THE PROVINCIAL CAPITAL AS RAW MATERIAL FOR DRINKING WATER IN INDONESIA

has been accepted, with editorial decision:

Accepted for Oral Presentation

at The 13th International Conference on Global Resource Conservation.

Please note that, in order for the abstract to be included in the conference program, presenters are required to complete the registration process and payment.

Your presentation is an important part of the conference, and we are looking forward to meet you at the conference.

Sincerely,

Mufidah Afiyanti, Ph.D. Conference chairperson



CERTIFICATE

NO: 10069/UN10/TU/2022

This is to certify that

DR.HERNIWANTI.S.PD,KIM.M.S

has contributed as

ORAL PRESENTER

With Presentation Title

Microbiological Quality of River Water in the Provincial Capital as Raw Material for Drinking Water in Indonesia

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Prof. Widodo, S.Si., M.Si., Ph.D.Med.Sc

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