

## 2 . SINTA PROSIDING - The 13th International Conference on Global Resource Conservation MICROBIOLOGICAL QUALITY OF RIVER WATER IN THE PROVINCIAL CAPITAL AS RAW MATERIAL FOR DRINKING WATER IN INDONESIA

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Authors HERNIWANTI

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2022



# ICGRC 2022

THE 13<sup>th</sup> 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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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	<b>Discussion</b>		
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	<b>Discussion</b>		

\*)On-site

ENV/O-010

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

Herniwanti<sup>1\*</sup>

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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*



**The 13<sup>th</sup> International Conference on Global Resource Conservation (ICGRC)**

*"Integrating Conservation and Sustainable Development through Biosphere Reserves"*

**July 25 - 26<sup>th</sup>, 2022**

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Phone/Fax: +62341-575841 | Website: icgrc.ub.ac.id | E-mail: icgrc.ub@gmail.com

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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



Kampus  
Merdeka  
INDONESIA JAYA



# 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

In The 13<sup>th</sup> International Conference on Global Resources Conservation 2022  
**Integrating Conservation and Sustainable Development through Biosphere Reserves**  
Malang, 25-26 July 2022



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