



**THE 2<sup>nd</sup> INTERNATIONAL CONFERENCE  
ON ENVIRONMENTAL RISKS AND PUBLIC HEALTH (ICER-PH 2015)  
DEPARTMENT OF ENVIRONMENTAL HEALTH  
FACULTY OF PUBLIC HEALTH, HASANUDDIN UNIVERSITY**

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Makassar, 23<sup>rd</sup> February 2015

## LETTER OF ACCEPTANCE

Dear Blego Sedionoto,

Thank you for submitting your abstract to The 2<sup>nd</sup> International Conference on Environmental Risks and Public Health (ICER-PH 2015). We are pleased to inform you that your abstract entitle "ENVIRONMENTAL HEALTH RISK ANALYSIS (EHRA) EXPOSURE LEAD (PB) IN DRINKING WATER PRODUCTION UNIT ISTALLATION WATER TREATMENT SAMARINDA" has been accepted as **ORAL PRESENTATION**. You will be scheduled to give a **15 minute** oral presentation.

Please confirm your acceptance of this offer by replying to this email within 7 days. Otherwise, we will consider that you give up the offer and will not attend the conference. Please send your Power Point Presentation to [anwar\\_envi@yahoo.com](mailto:anwar_envi@yahoo.com) before March 25- 2015. Please proceed the **Payment Before 10 March 2015** to Conference BNI Account in the website.

If you are interested to submit a full paper, the paper will be carefully reviewed and the accepted paper will be published on International Journal indexed in DOAJ as stated in the Brochure and Website. So please submit your full paper to be reviewed before 15 March 2015.

Registration with full payment is required. For the detailed information of registration, please refer to the available Brochure or visit directly website : [www.icer-ph.com](http://www.icer-ph.com) .Please do not hesitate to contact the secretariat at [anwar\\_envi@yahoo.com](mailto:anwar_envi@yahoo.com) if you require any clarifications. We look forward to welcoming you to the 2<sup>nd</sup> ICER-PH Conference.

Yours sincerely,  
Best wishes

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# ENVIRONMENTAL HEALTH RISK ANALYSIS EXPOSURE LEAD (PB) IN DRINKING WATER PRODUCTION INSTALLATION WATER TREATMENT SAMARINDA

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**Abstract:** IPA PDAM in Samarinda which the object research has been the highest results obtained laboratory analysis in unit IPA Loabakung is equal to 0.197 mg / L has exceeded standards Ministry of Health No. 492 / Menkes / Per / IV / 2010 of < 0.01 mg / L. The aimed of study determine the level of carcinogenic and non-carcinogenic risk due to the pattern of consumption of drinking water from the IPA unit Loabakung and perform management and risk control. This design of research is using Environmental Health Risk Analysis (ARKL) capable of providing Predictive potential risk of disease resulting from exposure to environmental hazards by starting at a dose response, the characteristics of risk and risk management in the design of experiments to continue treatment of drink water treatment. Result of Pb measurements on water PDAM in residential Loabakung with concentration levels between 0,001- 0,045 mg / L analysis has been showed Non-carcinogenic and carcinogenic risk level of 67% (78) of the respondents and 84.5% Non-carcinogenic risk ( 98 ) at a concentration of carcinogenic risk measurement highest station 0,045 mg / l use of water from the PDAM in the highest simulation only 0.97 L or 970 ml. Carcinogenic risk reduction and Non-carcinogenic in populations has exposed to a reduction in the amount of volume of water use in the provision of drinking water PDAM as well as food processing and chemical quality improvement, especially the decline of heavy metals in the production of processed water PDAM Loabakung with pre-sidementation and metal absorbs system both physically and chemically. Environmental management is indispensable as a major determinant of the presence of heavy metals in raw water taps with optimum wastewater treatment mining activities, industrial and domestic waste.

**Keywords :** ARKL , Pb exposure , water of PDAM , IPA Loabakung