**Ahmad QOSIM1, Anies ANIES2, Henna Rya SUNOKO3**

1. Doctoral Program of Environmental Science, School of Postgraduate Studies, Universitas Diponegoro, Semarang, Indonesia
2. Faculty of Medicine, Universitas Diponegoro, Semarang, Indonesia
3. Environmental Science, School of Postgraduate Studies, Universitas Diponegoro, Semarang, Indonesia