

## DAFTAR PUSTAKA

- [ABIS] *Advanced Bacterial Identification Software*. 2007. <http://www.tgw1916.net> [September 2017].
- Abraham WR. 2011. Megacities as Sources for Pathogenic Bacteria in Rivers and Their Fate Downstream. *Int J Microbiol*. 13 hal.
- Agustina Y, Amin B, Thamrin. 2012. Analisis Beban dan Indeks Pencemar Ditinjau dari Parameter Logam Berat di Sungai Siak Kota Pekanbaru. *JIRL* 6 (2): 2-3.
- Alaerts G, Santika SS. 1984. *Metoda Penelitian Air*. Surabaya: Usaha Nasional. 309 hal
- [APHA] American Public Health Association. 1999. Standard Methods for Examination of Water and Wastewater. <http://www.mwa.co.th> [Maret 2017].
- Aprina M. 2013. Hubungan Kualitas Mikrobiologis Air Sumur Gali dan Pengelolaan Sampah di Rumah Tangga dengan Kejadian Diare Pada Keluarga di Kelurahan Terjun Kecamatan Medan Marelan Tahun 2013 [Skripsi]. Medan: Universitas Sumatera Utara. 110 hal.
- Aria GD, Patana P, Leidonald R. 2014. Analisis Dampak Kegiatan Wisata Terhadap Kualitas Air Sungai Betimus Kecamatan Sibolangit Kabupaten Deli Serdang. <http://jurnal.usu.ac.id> [28 September 2017].
- Arifudin S, Khotimah S, Mulyadi A. 2013. Analisis Sebaran Bakteri Coliform di Kanal A Kuala Dua Kabupaten Kubu Raya. *Protobiont* 3 (2): 186 – 192.
- Armis A. 2017. Analisis Salinitas Air Pada Down Stream dan Middle Stream Sungai Pampang Makassar. <http://repository.unhas.ac.id/handle/123456789/25292> [November 2017].
- Augustyn L *et al.* 2016. Microbiological Indicators of the Quality of River Water, Used for Drinking Water Supply. *Pol J Environ Stud* 25(2): 511-519.
- Bank Dunia. 2003. *Pemantauan Lingkungan Indonesia*. Jakarta: Bank Dunia. 51 hal.
- [BAPELDALDA] Balai Pengendalian Dampak Lingkungan Daerah Pangkalpinang. 2004. *Pemantauan Kualitas Air Sungai Rangkui*. Pangkalpinang: Bapedalda Provinsi Kepulauan Bangka Belitung. 38 hal.
- Bensig EO, Flores MJL, Maglangit FF. 2009. Water quality assessment of Bulacao River Cebu, Philippines Using Fecal and Total Coliform as Indicators. *J Biodivers Environ Sci* 5(2): 470-475.
- Boron AL, Wolanin AA, Jelonkiewicz L, Zelazny M. 2016. Factors and Mechanisms Affecting Seasonal Changes in the Prevalence of Microbiological Indicators of

- Water Quality and Nutrient Concentrations in Waters of the Bialka River Catchment, Southern Poland. *Water Air Soil Pollut* 227 – 302.
- [BPDASHL] Balai Pengelolaan Daerah Aliran Sungai dan Hutan Lindung. 2017. Peta Daerah Aliran Sungai Rangkui-Pendindang-Pusuk. 159 hal.
- Chigbu P, Gordon S, Tchounwou PB. 2005. The Seasonality of Fecal Coliform Bacteria Pollution and its Influence on Closures of Shellfish Harvesting Areas in Mississippi Sound. *Int J Environ Res Public Health* 2(2): 362–373.
- Clark ML, Gamper ME. 2003. A Synoptic Study of Fecal-Indicator Bacteria in the Wind River, Bighorn River, and Goose Creek Basins, Wyoming, June-July 2000. Water Resources Investigations Report 034. <https://pubs.usgs.gov> [November 2017].
- Cuadrat JM, Seranno SV, Saz MA. 2015. Influence of Different Factors on Relative Air Humidity in Zaragoza Spain. *Front Earth Sci* 3(10): 1 - 10.
- Darmasusantini PD, Merit IN, Dharma IGBS. 2015. Identifikasi sumber pencemaran dan Analisis Kualitas Air Tukad Saba Provinsi Bali. *Ecotrophic* 9(2): 57 – 63.
- Dick AA, Abu GO, Ibe SN. 2012. Enterotoxigenicity Profile of *Escherichia coli*, *Vibrio*, and *Salmonella* Species Isolated From Well and River Water Sources Inoproama Town in the Niger Delta, Nigeria. *Biokemistri* 24(2): 64 – 66.
- Effendi H. 2003. *Telaah Kualitas Air Bagi Pengelolaan Sumberdaya dan Lingkungan Perairan*. Yogyakarta: Penerbit Kanisius. 294 hal.
- Eleria A, Vogel RM. 2005. Predicting Fecal Coliform Bacteria Levels in the Charles River, Massachusetts, USA. *J Am Water Resour Assoc* 1195 – 1209.
- Ezekwe IC, Ezekwe AS, Endoro PO. 2013. Biological Contaminants in the River Nun and Environmental Ethics of Riverside Communities in the Niger Delta: The Case of Amassoma, Bayelsa, Nigeria. *Estud Biol* 35(84):67-75.
- Fathoni A, khotimah s, Linda R. 2016. Kepadatan Bakteri Coliform di Sungai Segedong Kabupaten Pontianak. *Protobiont* 5(1): 20 – 23.
- Gregory MB, Frick EA. 2000. Fecal-Coliform Bacteria Concentrations in Streams of the Chattahoochee River National Recreation Area, Metropolitan Atlanta, Georgia, May October 1994 and 1995. U.S. Geological Survey Publication <https://pubs.er.usgs.gov/publication/wri20004139> [Oktober 2017].
- Gulo UZ, Barus TA, Suryanti A. 2015. Kualitas Air Sungai Belawan Kecamatan Pancur Batu Kabupaten Deli Serdang Provinsi Sumatera Utara. *J Aquacoastmarin* 9(4). 11 hal.
- [GWRC]. Global Water Resource Coalition. 2006. *Waterborne Pathogens*. United Kingdom: Alliance House. 177 hal.

- Hamuda HEAFB, Patko I. 2011. Variations in Water Quality of Danube River at Budapest City. *Óbuda University e-Bulletin* 2(1): 13 – 30.
- Hiraishi A, Saheki K, Horie S. 1984. Relationships of Total Coliform, Fecal Coliform, and Organic Pollution Levels in the Tamagawa River. *Bull Jap Soc Sci Fish* 54(6): 991- 997.
- Igbinosa EO, Odjadjare EE, Ajuzie CU, Orhue PO, Adeuole EM. 2012. Assessment of Physicochemical Qualities, Heavy Metal Concentrations and Bacterial Pathogens in Shanomi Creek in the Niger Delta, Nigeria. *Afr J Enviro Sci Technol* 6(11): 419-424.
- Irianto K. 2006. *Mikrobiologi*. Bandung: Yrama Widya. 256 hal.
- Islam MMM, Hofstra N, Islam MA. 2017. The Impact of Environmental Variables on Faecal Indicator Bacteria in the Betna River Basin, Bangladesh. *Environ Process* 4:319- 332
- Johannessen GS, Wennberg AC, Neisheim I, Tryland I. 2015. Diverse Land Use and the Impact On (Irrigation) Water Quality And Need For Measures - A Case Study of Aa Norwegian River. *Int J Environ Res Public Health* 12: 6979 – 7001.
- Juthi M. 2016. Comparative Study of the microbiological Qualities Between Tap Water of Old Dhaka and New Dhaka with Emphasis on the Presence of Fecal Coliform Bacteria [thesis]. Bangladesh: Brac University. 69 hal.
- Kartika GF, Jose C, Nurbalatif, Ridho MR, Zulkhairul, Haryani Y. 2014. Kuantifikasi Parameter Fisikakimia dan Total Mikroba Indikator Pada Aliran Sungai Siak Daerah Meredan dan Perawang. *Ind Che Acta* 5(1): 15 – 22.
- Kartiwa B, Parwitan H. 2010. Degradasi Sumber-Sumber Air : Faktor Penyebab dan Langkah-Langkah yang Diperlukan. Di dalam : Suradisastra *et al*, editor. Membalik Kecenderungan Degradasi Sumber Daya Lahan dan Air. Jakarta: Badan Litbang Pertanian. hal 172.
- Khotimah S. 2013. Kepadatan Bakteri *Coliform* di Sungai Kapuas Kota Pontianak. *Prosiding Semirata*. Bandar Lampung: FMIPA Universitas Lampung. hal 239 – 249.
- Khrishnan Rr, Dharmaraj K, Kumari Bdr. 2007. A Comparative Study on the Physicochemical and Bacterial Analysis of Drinking, Borewell and Sewage Water in the Three Different Places of Sivakasi. *J Environ Biology* 28(1):105-108.
- Kinge CNW, Mbewe M Sithebe NP. 2012. Detection of Bacterial Pathogens in River Water Using Multiplex-PCR. <http://cdn.intechopen.com> [ Maret 2017].
- Kinzelman J *et al*. 2004. Non-point source pollution: Determination of Replication Versus Persistence of *Escherichia coli* in Surface Water And Sediments with Correlation of Levels to Readily Measurable Environmental Parameters. *J Water Health* 2(2): 103 – 114.

- Lewa RT, Komala O, Rahayu SYS. 2008. Kualitas Air Sungai Ciliwung Di Kota Bogor. *Ejournal Jurusan Biologi Universitas Pakuan*. 8 hal.
- Lewerissa F dan Kaihena M. 2014. Analisis Kualitatif Bakteri Coliform Dan Fecal Coliform Pada Mata Air Desa Saparua Kecamatan Saparua Kabupaten Maluku Tengah. Di dalam, tanpa nama, editor 2014. Sains Membangun Karakter dan Berpikir Kritis Untuk Kesejahteraan Masyarakat. *Prosiding Seminar Nasional Basic Science VI*: Ambon 7 Mei 2014. Ambon: Fakultas Matematika dan Pengetahuan Alam, Universitas Pattimura. hal 353 – 366.
- Li J, Wang H, Liu Y, Lin M, Liu X, Hu X. 2014. Distribution and Diversity of Coliform Bacteria in Estuary of Jiahe River, China. *Int Environ Res*. 8(2):501-508.
- Madigan MT, Martinko JM. 2006. *Brock Biology of Microorganisms*. Upper Saddle River: Pearson Prentice Hall. 922 hal.
- McCulloch KJ. 2015. Analysis of Relationships Between Water Quality Parameters and Stream Sediment with Fecal Bacteria in Hidden Creek, Rock Hill, SC [skripsi]. Winthrop University. 56 hal.
- Meliala ES. 2015. Identifikasi Bakteri Patogen Sebagai Indikator Pencemaran Air di Muara Sungai Deli. <http://repository.usu.ac.id> [Juli 2017].
- Misnadiarly, Djajaningrat H. 2014. Mikrobiologi Untuk Klinik dan Laboratorium. Jakarta: Rineka Cipta. hal 7.
- Mishra A, Mukherjee A, Tripathi Bd. 2009. Seasonal and Temporal Variations in Physico Chemical and Bacteriological Characteristics of River Ganga in Varanasi. *Int J Environ Res* 3(3):395-402.
- Mousavi E. 2016. Turbidity, Total Suspended Solids & Water Clarity. <http://linkedin.com> [5 November 2017] .
- Muslih K, Adiwilaga EM, Adiwibowo S. 2014. Pengaruh Penambangan Timah Terhadap Keanekaragaman Ikan Sungai dan Kearifan Lokal Masyarakat di Kabupaten Bangka. *Limnotek* 21 (1): 52-63.
- Musyoki AM, Suleiman MA, Mbithi JN, Maingi JM. 2013. Water-Borne Bacterial Pathogens in Surface Waters of Nairobi River and Health Implication to Communities Downstream Athi River. *Int J Life Sci Pharm. Res* 3(1): 4 – 10.
- Odum EP. 1996. *Dasar-Dasar Ekologi*. Yogyakarta: Universitas Gajah Mada. 697 hlm.
- Olutiola PO, Awojobi KO, Oyedeji O, Ayansina ADV, Cole OO. 2010. Relationship Between Bacterial Density and Chemical Composition of a Tropical Sewage Oxidation Pond. *Afr J Environ Sci Technol* 4(9): 595-602.
- Páll E, Niculae M, Kiss T, Sandu CD, Spinu M. 2013. Human Impact on the Microbiological Water Quality of the Rivers. *J Med Microbiol* 62: 1635-1640.

- Pandey PK, Kass PH, Soupir ML, Biswas S, Singh VP. 2014. Contamination of water Resources by Pathogenic Bacteria. *AMB Express* 4 (51): 1 – 16.
- Patty SI, Arfah H, Abdul MS. 2015. Zat Hara (Fosfat, Nitrat), Oksigen Terlarut dan pH Kaitannya dengan Kesuburan di Perairan Jikumerasa, Pulau Buru. *JPLT* 1(1): 43 – 50.
- Peirera VMG, Gomes RB. 2011. Correlation between *Escherichia coli* and Limnological Variables Water Samples of the Lagoa da Maraponga, Fortaleza, Ceará State, Brazil. *Maringá* 33(2): 145 – 151.
- Pelczar MJ, Chan ES. 1998. *Dasar-Dasar Mikrobiologi*. Jakarta: UI Press. 551 hal.
- Penn MR, Pauer JJ, Mihelcic JR. 2004. *Environmental and Ecological Chemistry Vol II- Biological Oxygen Demand*. Encyclopedia of Life Support Systems (EOLSS). Oxford: EOLSS Publishers. 452 hal.
- [PERMENKES]. Peraturan Menteri Kesehatan Nomor : 416/MEN.KES/PER/IX/1990 Tentang Syarat-Syarat dan Pengawasan Kualitas Air. 10 hal.
- Pirwanda F, Pingardie BH. 2015. Dampak Kegiatan Tambang Timah Inkonvensional Terhadap Perubahan Guna Lahan di Kabupaten Belitung. *J Planologi* 2(3): 177 – 194.
- [PP] Peraturan Pemerintah Republik Indonesia Nomor 35 Tahun 1991. Tentang Sungai. 26 hal.
- [PP] Peraturan Pemerintah Republik Indonesia Nomor 82 Tahun 2001 Tentang Pengelolaan Kualitas Air dan Pengendalian Pencemaran Air. 32 hal.
- Prada CMF, Venkatasen MM, Franco AA, Lanata CF, Sack RB, Hartman AB, Spira W. 2004. Molecular Epidemiology of *Shigella flexneri* in a Diarrhoea-Endemic Area of Lima, Peru. *Epidemiol Infect* 132: 03 – 316.
- Prasetya VN, Susanawati LD, Widiatmono BR. 2015. Penentuan Daya Tampung Sungai Badek Terhadap Beban Pencemar Akibat Limbah Cair Penyamakan Kulit di Kelurahan Ciptomulyo, Malang. *JPSL* (2): 17 – 24.
- Raharjo S. 2014. Cara Melakukan Analisis Korelasi dengan SPSS <http://www.spssindonesia.com> [Maret 2018].
- Rheinheimer G. 1991. *Aquatic Microbiology 4<sup>th</sup> Edition*. Great Britain: Biddles Ltd. 235 hal.
- Rijal M. 2013. Kualitas Air Sungai Arbes Ambon Berdasarkan Nilai Koliform Fecal. *J Biotek* 1(1): 27-39.
- Ristiati NP, Nurlitas F, Mylyadiharja S. 2014. Analisis Mikrobiologis Bakteri Anaerobik Sebagai Indikator Pencemaran Pada Mauara Tukad Buleleng di Perairan Kampung Tinggi Kabupaten Buleleng. Seminar Nasional Riset Inovatif II. hal 937 – 944.



- Risyanto, Widyastuti M. 2004. Pengaruh Perilaku Penduduk Dalam Membuang Limbah Terhadap Kualitas Air Sungai Gajahwong. *JML* 11(2): 73-85.
- Riza N, Thamrin, Siregar SH. 2012. Analisis Status Kualitas Air Anak-Anak Sungai Singingi Sekitar Tambang Batubara di Kuantan Singingi. *JIL* 6(2): 123 – 133.
- Said NI, Marsidi. 2005. Mikroorganisme Patogen dan Parasit di Dalam Air Limbah Domestik Serta Alternatif Teknologi Pengolahan. *JAI* 1(1): 65 – 81.
- Said NI. 2008. Pencemaran Air Minum dan Dampaknya Terhadap Kesehatan <http://www.kelair.bppt.go.id/Publikasi/BukuAirMinum/BABIPENCEMARAN>.  
df [5 Oktober 2017].
- Santoso S. 2014. Limbah Cair Domestik: Permasalahan dan Dampaknya Terhadap Lingkungan. <http://bio.unsoed.ac.id> [Oktober 2018].
- Sarria JC, Vidal AM, Kimbrough RC. 2001. Infections Caused by *Kluyvera* Species in Humans. *Clin Infect Dis* 33: 69 – 74.
- Singh M, Singh K. 2014. Correlative Study of Physico-Chemical and Microbiological Parameters of Radha and Shyam Kund Govardhan, Mathura (U.P). *The Experiment* 25(3): 1726 -1735.
- Sinha SN, Paul D. 2015. Density of Pollution Indicator Bacteria in Relation to Physicochemical Factors During Diel Cycle of River Ganga at Ichapore, West Bengal, India. *Front Environ Microbiol* 1(1):9-13.
- [SNI] Standar Nasional Indonesia. 1991. Metode Pengambilan Contoh Kualitas Air. SNI 06-2412-1991. hal 3.
- [SNI] Standar Nasional Indonesia. 2008. Air dan Air Limbah – Bagian 57: Metode Pengambilan Contoh Air Permukaan. [www.547-sni-69857-2008.ac.id](http://www.547-sni-69857-2008.ac.id)
- Soewarno. 1991. *Hidrologi: Pengukuran dan Pengelolaan Data Aliran Sungai*. Bandung: Penerbit NOVA. 824 hal.
- Strauch *et al.* 2014. Climate Change and Land Use Drivers of Fecal Bacteria in Tropical Hawaiian Rivers. *J Environ Qual* 43:1475–1483.
- Subekti S. 2009. Pengelolaan Limbah Cair Rumah Tangga <http://jurnal.unpand.ac.id> [22 Februari 2017].
- Sumathi S, Manonmani E. 2016. Physiochemical and Microbiological Study of River Water in Agapattinam District Tamil Nadu, India. *J Pharm Pharm Sci* 5(5): 1063-1090.
- Suriawiria U. 2008. *Mikrobiologi Air dan Dasar-Dasar Pengolahan Buangan Secara Biologis*. Bandung: PT. Alumni. 228 hal.

- Suwanda E, Kawamura K, Tanaka K, Sakuno Y, Raharjo P. 2011. *Escherichia Coli* and Biophysicochemical Relationships of Seawater and Water Pollution Index in the Jakarta Bay. *Am J Environ Sci* 7 (3): 183-194.
- Tanjung RHR, Maury HK, Suwito. 2016. Pemantauan Kualitas Air Sungai Digoel Distrik Jair Kabupaten Boven Digoel Papua. *J Biologi Papua* 8(1):38-47
- Tendean C, Tilaar S, Karongkong HH. 2014. Pengelolaan Air Limbah Domestik Di Permukiman Kumuh Di Kelurahan Calaca Dan Istiqlal Kecamatan Wenang. *Sabua* 6(3): 293-306.
- Tsega N, Sahile S, Kibret M, Abera B. 2013. Bacteriological and Physico Chemical quality of Drinking Water Sources in A Rural Community of Ethiopia. *Afr Health Sci* 13(4): 1156 – 1161.
- [USEPA]. United Stated Environmental Protection Agency. 2007. Nutrient Pollution: The Sources and Solution. <https://www.epa.gov/nutrientpollution/sources-and-solutions> [18 Desember 17].
- Wapwera SD, Ayanbimpe GM, Odita CE. 2015. Abandoned Mine Potential Home for the People: A case study of Jos Plateau Tin – Mining Region. *J Civ Enginer Architec* 9: 429 – 445.
- [WHO]. World Health Organization. 2004. Guidelines for Drinking-Water Quality. [http://www.who.int/water\\_sanitation\\_health/dwq/GDW11rev1and2.pdf](http://www.who.int/water_sanitation_health/dwq/GDW11rev1and2.pdf) [Desember 2017].
- Xinfeng Z, Jiaquan D. 2010. Affecting Factors of Salinity Intrusion in Pearl River Estuary and Sustainable Utilization of Water Resources in Pearl River Delta. In: Sumi A., Fukushi K., Honda R., Hassan K. (eds) *Sustainability in Food and Water. Alliance for Global Sustainability Bookseries (Science and Technology: Tools for Sustainable Development)*. Dordrecht: Springer. hal 11 – 17.
- Yogafanny E. 2015. Pengaruh Aktifitas Warga di Sempadan Sungai Terhadap Kualitas Air Sungai Winongo. *JSTL* 7(1):41-50.
- Yuniarti E. 2007. Bakteri Koliform. Dalam: Saraswati R, Husen E, Simanungkalit RDM, editor. *Metode Analisis Biologi Tanah*. Bogor: Balai Besar Litbang Sumberdaya Lahan Pertanian. hal 111.
- Zein U, Sagala KH, Ginting J. 2004. Diare Akut Disebabkan Bakteri. <http://library.usu.ac.id/download/fsk/penydalamumar5.pdf> [12November 2017].