

- Amalina, A. N., 2021, Non-Linear Site Response Analysis for Evaluating Liquefaction Hazard Maps. *unpublished thesis*. Yogyakarta: Universitas Gadjah Mada, p. 76
- ARGOSS, 2001. Guidelines for Assessing the Risk to Groundwater from On Site Sanitation. *Guidelines for Assessing the Risk to Groundwater from On Site Sanitation*, Volume CR/01/142, 97, p. 2001.
- Back, W. & Hanshaw, B., 1965. Chemical geohydrology, in *Advances in Hydroscience. Academic*, Volume 2, pp. 49-109.
- Badan Informasi Geospasial (BIG), 2017. Download Rupabumi Indonesia. [Online] Available at: <https://tanahair.indonesia.go.id/portal-web> [Accessed 25 March 2021].
- Boulabeiz, M., Klebingat, S. & Agaguenia, S., 2018. A GIS-Based GOD Model and Hazard Index Analysis: The Quaternary Coastal Collo Aquifer (NE-Algeria). *National Ground Water Association*, pp. 1-12.
- Cederstorm, D. J., 1946. Genesis of groundwater in the coastal plain of Virginia. *Environmental Geology*, Volume 41, pp. 218-245.
- Chan, Y. H., 2004. Biostatistic 202: Logistic regression analysis. *Singapore Med J*, Volume 45(4), pp. 149-153.
- Das, B. K. & Kaur, P., 2001. Major ion chemistry of Renuka lake and weathering processes, Sirmaur district, Himachal Pradesh, India. *Journal of Environmental Geology*, Volume 40, pp. 908-917.
- Datta, P. S. & Tyagi, S. K., 1996. Major ion chemistry of groundwater in Delhi area: Chemical weathering processes and groundwater regime. *Journal of the Geological Society of India*, Volume 47, pp. 179-188.
- Davis, S. N. & De Wiest, R. J. M., 1966. *Hydrogeology*. New York: John Wiley & Sons, p. 463.
- DIN38409-7, 2005. *DIN38409-7:2005-12 German standard methods for the examination of water, waste water and sludge - Parameters characterizing effects and substances (group H) - Part 7: Determination of acid and base-neutralizing capacities (H 7)*.
- Djaeni, A., 1982. *Peta Hidrogeologi Indonesia 1:250.000 Lembar IX Yogyakarta (Jawa)*. Bandung: Direktorat Geologi Tata Lingkungan.
- Domenico, P. A. & Schwartz, F. W., 1998. *Physical and Chemical Hydrogeology, Second Edition*. New York: John Wiley and Sons, p. 554.
- Downing, A. L., Painter, F. I. A. & Knowles, C., 1964. Nitrification in the activated sludge process. *Journal and Proceedings of the Institute of Sewage Purification*, Part 2.
- Edinburghsensors, 2019. Total Organic Carbon Content for Water Quality Checking. [Online] Available at: <https://edinburghsensors.com/news-and-events/water-quality-checking-using-total-organic-carbon/> [Accessed 7 February 2021].

- Embry, A. F. & Klovan, J. E., 1971. A late Devonian reef tract on northeastern Banks Island, NWT. *Bulletin of Canadian petroleum geology*, 19(4), pp. 730-781.
- EPA, 2011. *EPA Drinking Water Guidance on Disinfection by-products Advice Note No. 4 Version 2 Disinfection By-Products in Drinking Water*. Irelad: EPA office of Environmental Enforcement. p. 27.
- Fetter, C. W., 2001. *Applied Hydrogeology, Fourth Edition*. New York: Pearson College Div, p. 598.
- Fisher, S. R. & Mullican, W. F., 1997. Hydrogeochemical evolution of sodium-sulphate and sodium-chloride groundwater beneath the northern Chihuahua desert, Trans-Pecos, Texas, U.S.A. *Hydrogeology Journal*, Volume 5, pp. 4-16.
- Foster, S. & Hirata, R., 1988. *Groundwater Risk Assessment - A Methodology Using Available Data*, 1st ed. Lima, Peru: Pan American Center for Sanitary Engineering and Environmental Sciences (CEPIS).
- Foster, S., Hirata, R. & Bartolome, A., 2013. The aquifer pollution vulnerability concept: Aid or impediment in promoting groundwater protection. *Hydrogeology Journal* 21, no. 7, pp. 1389-1392.
- Foster, S.S.D. 1987. Fundamental concepts in aquifer vulnerability, pollution risk and protection strategy. In *Vulnerability of Soil and Groundwater to Pollution*, Vol. 38, ed.W. van Duijvenbooden and H.G. van Waegeningh, 69-86. The Hague, Netherlands: TNO Committee on Hydrological Research.
- Freeze, R. A. & Cherry, J. A., 1979. *Groundwater*. New Jersey: Prentice Hall, Inc., p. 604.
- Fumita, R., Kashiwaya, K., Koike, K., Tada, Y., Shin, K. C., Taniguuchi, M. & Nakano, T., 2015. Groundwater flow regime in Kyoto basin estimated from hydrogeochemical characteristics, *Japan Geoscience Union Meeting*. Chiba.
- Furtak, H. & Langguth, H.R., 1967. *Zur hydro-chemischen Kennzeichnung von Grundwässern und Grund wasserty penmittels Kennzahlen*. Hannover: Mem IAHCongress.
- Gastmans, D., Chang, H. K. & Hutcheon, I., 2010. Groundwater geochemical evolution in the northern portion of the guarani aquifer system (Brazil) and its relationship to diagenetic features. *Appl Geochem* (25), pp. 16-33.
- Gemilang, W. A., Ridwan, N. N. H. & Wisha, U. J., 2019. Karakteristik Hidrogeokimia Akuifer Tak Terkekang Kawasan Pesisir Pulau Weh, Aceh. *Jurnal Sumber Daya Air Vol. 15 No. 1*, pp. 27-38.
- General Company of Geophysics (GCG)., 1965. *Geophysical prospection report in plain of Collo* (following the request of the Rural Engineering Service and hydraulics agricultural district of Constantine), p. 20.
- Gibbs, R. J., 1970. Mechanisms controlling world water chemistry. *Science Journal*, Volume 170, p. 795-840.
- Gonti, E.A.P., Wijatna, A.B. & Satrio, 2016, Studi Sebaran Air Lindi di Sekitar Tempat Pembuangan Sampah Terpadu (TPST) Piyungan Kabupaten Bantul dengan Penentuan Isotop Stabil (^2H , ^{18}O) dan Kimia Air. *Unpublished bachelor thesis*. Yogyakarta: Universitas Gadjah Mada.

- Greenman, D. W., Swarzenski, W. V., Bennett, G. D., 1967. Groundwater Hydrology of the Punjab, West Pakistan with Emphasis on Problems Caused by Canal Irrigation. *Water Supply Paper*. 1608-H. Washington: US Geol. Survey, p. 66.
- Guastaldi, E., Graziano, L., Liali, G., Brogna, F.N.A. & Barbagli, A., 2014. Intrinsic vulnerability assessment of Saturnia thermal aquifer by means of three parametric methods: SINTACS, GODS and COP. *Environmental Earth Sciences* 72, no. 8, pp. 2861–2878.
- Hem, J. D., 1985. *Study and Interpretation of Chemical Characteristics of Natural Water, Third Edition..* Alexandria: U.S. Government Printing Office, p. 272.
- Holland, H., 1978. *The chemistry of the atmosphere and oceans*. New York: Wiley.
- Holting, B. & Coldewey, W. G., 2013. *Hydrogeology*. Berlin: Springer, p. 368.
- Husein, S. & Srijono, 2010. Peta Geomorfologi DaerahIstimewa Yogyakarta. *Simpodium Geologi Yogyakarta*, 23 March, pp. 1-11.
- Jankowski, J. & Acworth, R. I., 1997. Impact of debrisflow deposits on hydrogeochemical process and the development of dry land salinity in the Yass River catchment, New South Wales, Australia. *Hydrogeology Journal*, Volume 5, pp. 71-88.
- Jessup, R. E. & Rao, P. S. C., 1982. Development and verification of simulation models for describing pesticide dynamics in soils. *Ecol. Modeling*, Volume 16, pp. 67-75.
- Kampfner, L., 2019, Redox State and Zonation of Groundwater In the City of Yogyakarta (Java, Indonesia). *unpublished thesis*. Aachen: RWTH Aachen University, p. 100.
- Katz, B. G., Gopalan, T. B., Bullen, T. D. & Davis, J. H., 1998. Use of chemical and isotopic tracers to characterise the interaction between groundwater and surface water in mantled karst. *Groundwater Journal*, Volume 35, pp. 1014-1028.
- Kehew, A. E., 2001. *Applied Chemical Hydrogeology*. New Jersey: Prentice Hall, p. 368.
- Khan, M., Holm, T. R. & Iqbal, N., 2014. Groundwater quality evaluation in Thal Doab of Indus Basin of Pakistan.. *Int J Modern Eng Res*, Volume 4 (1), pp. 36-47.
- Khashogji, M. S. & El Maghraby, M., 2013. Evaluation of groundwater resources for drinking and agricultural purposes, Abar Al Mashi area, south Al Madinah Al Munawarah City, Saudi Arabia. *Arab J Geosci* , Volume 6(10), p. 3929–3942.
- Lee, H. L., 1975. Trace elements in animal production. In: D. Nicholas & R. Egan, eds. *Trace elements in soil-plant-animal systems*. New York: Academic Press.
- Listyani, T., 2019. *Criticise of Van Zuidam Classification: A Purpose of Landform Unit*. Yogyakarta, Intitut Teknologi Nasional Yogyakarta, pp. 332-337.
- Little, A. D., 1976. *Physical, chemical, and biological treatment techniques for industrial wastes*. Report to U.S. EPA, Office of Solid Waste Management Programs, PB-275-054/56A Vol. 1 and PB-275-278/1GA Vol. 2.
- Liu, D. H. F. & Liptak, B. G., 2000. *Groundwater and Surface Water Pollution*. Florida: Lewis Publishers, p. 161.
- Matthes, G., 1982. *The Properties of Groundwater*. New York: John Wiley & Sons, p. 406.

- Mayo, A. L. & Loucks, M. D., 1995. Solute and isotopic geochemistry and groundwater flow in the Central Wasatch Range, Utah. *Journal of Hydrology (Amsterdam)*, Volume 172, pp. 31-59.
- Mazor, E., 1997. *Chemical and Isotopic Groundwater Hydrology*. New York: Marcel Dekker, Inc.
- Mazor, E., 2004. *Chemical and Isotopic Groundwater Hydrology, Third Edition*. New York: Marcel Dekker Inc, p. 352.
- McLennan, S.M. & Murray R.W., 1999. *Encyclopedia of Geochemistry*. Dordrecht: Kluwer Academic Publishers, pp. 282-292.
- Menard, S., 2010. *Logistic regression: From introductory to advanced concepts*
- Menteri Kesehatan RI, 2017. *Peraturan Menteri Kesehatan Republik Indonesia Nomor 32 tahun 2017 tentang Standar Baku Mutu Kesehatan Lingkungan dan Persyaratan Kesehatan Air untuk Keperluan Higiene Sanitasi, Kolam Renang, Solus per Aqua, dan Pemandian Umum*. Jakarta
- Mitchell, R., 1964. *Chemistry of the soil*. New York: Callisto Reference.
- Nag, S., 2009. Quality of Groundwater in Parts of Arsa Block, Purulia District, West Bengal Bhujal. *News Quarterly J*, Issue 24, pp. 58-64.
- Nuha, A., 2020., Geokimia Air Tanah pada Daerah Sei Bingei dan Sekitarnya, Kabupaten Langkat, Provinsi Sumatra Utara. *unpublished thesis*. Yogyakarta: Universitas Gadjah Mada. p. 210.
- Overcash, M. R. & Pal, D., 1979. *Design of land treatment systems for industrial wastes; Theory and practice*. Mich.: Ann Arbor Science.
- Pettijohn, F. J., 1957. Paleocurrents of Lake Superior Precambrian quartzites. *Geological Society of America Bulletin* 68, no. 4, pp. 469-480.
- Piper, A. M., 1944. A graphic procedure in the geochemical interpretation of water-analyses. *Eos, Transactions American Geophysical Union*, Volume 25(6), pp. 914-928.
- PPID Bantul, 2017. Data Penggunaan Lahan Tahun 2017. [Online] Available at: <https://ppid.bantulkab.go.id/data-penggunaan-lahan-tahun-2017/> [Accessed 11 February 2021].
- PPID Bantul, 2020. Kondisi Klimatologi Kabupaten Bantul. [Online] Available at: https://bantulkab.go.id/data_pokok/index/0000000021.html [Accessed 11 September 2021]
- Pramanda, T. & Purnama, S., 2017. Kajian Potensi Airtanah Bebas untuk Kebutuhan Domestik di Kecamatan Bantul Kabupaten Bantul Daerah Istimewa Yogyakarta. *Jurnal Bumi Indonesia*, Volume 6(4), pp. 1-9.
- Presiden RI, 2001. *Peraturan Pemerintah Republik Indonesia Nomor 82 Tahun 2001 tentang Pengelolaan Kualitas Air dan Pengendalian Pencemaran Air*. Jakarta.
- Presiden RI, 2021. *Peraturan Pemerintah Republik Indonesia Nomor 22 Tahun 2021 tentang Penyelenggaraan Perlindungan dan Pengelolaan Lingkungan Hidup*. Jakarta.
- Rahardjo, W., Sukandarrumidi, & Rosidi, H. M. D., 1995. *Peta Geologi Lembar Yogyakarta, Skala 1 : 100.000*. Bandung: Pusat Penelitian dan Pengembangan Geologi.

- Ramadhan, F., Prasasti, F.D.R & Adji, T.N., 2018, Study of Groundwater Contamination near Piyungan Landfill, Bantul, Yogyakarta. *Proceeding, Pertemuan Ilmiah Tahunan Ke-3 Perhimpunan Ahli Air Tanah Indonesia (PIT-PAAI)*. Jakarta.
- Rice, E. W., Baird, R. B. & Eaton, A. D., 2017. *APHA Standard Methods for The Examination of Water and Wastewater*. 23rd ed. s.l.:American Public Health Association.
- Rohman, K. H. N., 2019, Kajian Hidrokimia Daerah Bukit Pajangan dan Sekitarnya, Kabupaten Bantul, Daerah Istimewa Yogyakarta. *unpublished bachelor thesis*. Yogyakarta: Universitas Gadjah Mada, p. 144.
- Santosa, L. W. & Adji, T. N., 2014. *Karakteristik Akuifer dan Potensi Airtanah Graben Bantul*. Yogyakarta: UGM Press, p. 299.
- Sarin, M. M., Krishnaswamy, S., Dilli, K., Somayajulu, B. L. K., & Moore, W. S., 1989. Major ion chemistry of the Ganga-Brahmaputra river system: Weathering process and fluxes to the Bay of Bengal. *Geochimica et Cosmochimica Acta*, 53, pp. 997–1009.
- Schmid, R., 1981. Descriptive nomenclature and classification of pyroclastic deposits and fragments: Recommendations of the IUGS Subcommittee on the Systematics of Igneous Rocks. *Geology*, 9(1), pp. 41-43.
- Schoeller, H., 1967. *Geochemistry of groundwater—an international guide for research and practice*. UNESCO, pp. 1-18.
- Singhal, B. B. S. & Gupta, R. P., 2010. *Applied Hydrogeology of Fractured Rocks, Second Edition*. Heidelberg: Springer, p. 429.
- Stallard, R. F. & Edmond, J. M., 1983. Geochemistry of the Amazon, the influence of geology and weathering environment on the dissolved load. *Journal of Geophysical Research*, Volume 88, pp. 9671-9688.
- Streckeisen, A., 1976. To each plutonic rock its proper name. *Earth-science reviews*, 12(1), pp. 1-33.
- Subramani, T., Rajmohan, N. & Elango, L., 2010. Groundwater geochemistry and identification of hydrogeochemical processes in hard rock region, Southern India. *Environmental Monitoring and Assessment*, Volume 162, pp. 123-137.
- Suharyadi, 1984. *Diktat Kuliah Geohidrologi*. Yogyakarta: Teknik Geologi Universitas Gadjah Mada.
- Thermo Electron Corp., 2003. *Total Organic Carbon (TOC) in Drinking Water*. Delft: Thermo Electron Corporation.
- Thin, P. P., Hendrayana, H., Wilopo, W. & Kawasaki, S., 2018. Assessment of groundwater facies in Wates Coastal Area, Kulon Progo, Yogyakarta, Indonesia. *Journal of Degraded and Mining Lands Management*, Volume 5(4), pp. 1389-1401.
- Thirumalaivasan, D., Karmegam, M. & Venugopal, K., 2003. AHP-DRASTIC: Software for specific aquifer vulnerability assessment using DRASTIC model and GIS. *Environmental Modelling and Software* 18, no. 7, pp. 645–656.
- Thorstenson, D. C., Fisher, D. W., Croft, M. G., 1979. The geochemistry of Fox Hills—Basal Hill Creek aquifer in southwestern North Dakota and northwestern South Dakota. *Water Resources Res*, Volume 15(6), pp. 1479–98.

- Thurman, E. M., 1985. *Organic Geochemistry of Natural Waters*. Dordrecht: Martinus Nijhoff / DR W. Junk Publishers, p. 501.
- Tisdale, S. L. & Nelson, W. L., 1975. *Soil Fertility and Fertilizers*. 3rd ed. New York: Macmillan.
- Todd, D. K. & Mays, L. W., 2005. *Groundwater Hydrology*. New York: John Wiley & Sons, p. 656.
- Todd, D. K., 1980. *Groundwater Hydrology*. New York: John Wiley and Sons, p. 556.
- Van Zuidam-Cancelado & Zuidam, V., 1979. *Terrain Analysis and Classification using Aerial Photographs*. Netherland: International Institute for Aerial Survey and Earth Sciences (ITC).
- Varol, S. & Davraz, A., 2014. Assessment of geochemistry and hydrogeochemical processes in groundwater of the Tefenni plain (Burdur/Turkey). *Environ. Earth Sci.*, Volume 71, p. 4657–73.
- Veizer, J. & Mackenzie, F., 2014. Evolution of Sedimentary Rocks. *Treatise on Geochemistry*, pp. 399-435.
- Waller, M., 1982. *Groundwater and The Rural Homeowner*. New York: U.S. Geological Survey.
- WHO, 2003. *Nitrate and Nitrite in Drinking Water*. Geneva: World Health Organization.
- Wijayanti, Y., Yuniasih, B., Verma, N., Krisdiarto, A.W. & Safitri, L., 2018, Groundwater quality mapping of Yogyakarta City, Sleman, Kulonprogo and Bantul regency area of Yogyakarta Province. *IOP Conference Series: Earth and Environmental Science*, Volume 195, pp. 1-10.
- Yugamaris, G., 2021, Prospeksi Mineralisasi Di Daerah Cijulang dengan Metode Regresi Logistik, Kabupaten Garut dan Cianjur, Provinsi Jawa Barat. *unpublished thesis*. Yogyakarta: Universitas Gadjah Mada. p. 245.
- Zwahlen, F., 2003. *Vulnerability and Risk Mapping for the Protection of Carbonate (Karst) Aquifers, Final Report (COST Action 620)*. Brussels, Belgium: European Commission, Directorate-General XII Science, Research and Development.