



1. Personal Data	
Name: I Made Wahyu Widyarsana	Date and Place of Birth: December 18 <sup>th</sup> , 1979, Denpasar – Indonesia
Nationality: Indonesian	Gender: Male
Department, faculty, university: Environmental Engineering Department, Faculty of Civil & Environmental Engineering, Institut Teknologi Bandung	
Title of position held: Instructor	Address: Jl. Ganesha No.10 Bandung 40132
Tel. +628156262892 Fax. +62 22 2534187	E-mail: <a href="mailto:wahyu.labb3@gmail.com">wahyu.labb3@gmail.com</a> ; <a href="mailto:wahyu@ftsl.itb.ac.id">wahyu@ftsl.itb.ac.id</a>

2. Educational Qualifications
<b>2-1. Academic Qualification (Repeat as necessary)</b>
<ul style="list-style-type: none"> <li>• Degree: <b>DR</b>, The Department of Environmental Engineering, Bandung Institute of Technology (ITB), Indonesia (2011). Dissertation Topic : Development of Informal and Formal Sector Integration in Electronic Waste (e-Waste) Management with Model Approach End-of-Life.</li> <li>• Degree: <b>Master Engineering of Environmental Management Technology (MT)</b>, The Department of Environmental Engineering, Bandung Institute of Technology (ITB), Indonesia (2006). Thesis Topic: Internalizing Externalities in Bandung Waste Management Patterns.</li> <li>• Degree: <b>Bachelor of Environmental Engineering (ST)</b>, The Department of Environmental Engineering, Bandung Institute of Technology (ITB), Indonesia (2004). Final Project Topic: Integration Studies of Final Waste Disposal System at SARBAGITA Regions (Derenpasar, Badung, Gianyar and Tabanan), Bali Province.</li> </ul>
<b>2-2. Academic Experience</b>
<ul style="list-style-type: none"> <li>• Lecturer in Environmental Engineering (not yet have a functional position), The Department of Environmental Engineering, Bandung Institute of Technology (ITB), Indonesia (2014-present)</li> <li>• Member at Research Group of Air and Waste Management, Faculty of Civil and Environmental Engineering, ITB (2008-2013)</li> <li>• Researcher at Laboratory of Solid Waste and Hazardous Waste, The Department of Environmental Engineering, Bandung Institute of Technology (ITB), Indonesia (2004-present)</li> </ul>

**2-3. Non Academic Experience**

Company or Entity	Title	Brief Description of Position	Year	Full/ Part Time
PT. LAPI and LAPI Institute	Environmental Engineer			Part Time

**2-4. Certification or Professional Registrations**

Certified Lecturer in Higher Education from the Indonesian Ministry of Research, Technology, and Higher Education

**2-5. Current Membership in Professional Organizations**

Indonesian Society of Sanitary and Environmental Engineers (IATPI)  
Indonesian Solid Waste Association (InSWA)

**2-6. Honors and Awards**

College graduation cum laude,

**2-7. Service Activities**

- Lecturer in Environmental Engineering (ITB) with courses as follows: Drawing Techniques\*, Pre Design Landfill\*, Waste Management\*, Design of Environmental Engineering II\*, Environmental Engineering\*, Coordinator of the Final Task, Supervisor Job Training (Field Work), Supervising Final Task (Final Project), Basics Environmental Engineering\*, Environmental Data Analysis\*, Waste Systems Planning, Design Waste\*, Waste Management System\*, Job Training (Field Work) Coordinator and Supervisor at RIL, Supervisor Final Task (Final Project) at PIAS. (Information: \*team teaching). 2004-present
- Lecturer at several events promoting and disseminating environmental engineering at the Ministry of Public Works, Ministry of Environment, the Coordinating Ministry for Economic Affairs, Ministry of Energy and Natural Resources, and the National Development Planning Agency. 2011-present
- Instructor in Technical Guidance in Waste Management Division of Water and Sanitation Institute, Ministry of Public Works, 2011-present.
- Head of the Computer Laboratory, Environmental Engineering ITB. 2016-present
- Library Head, Environmental Engineering ITB. 2016-now
- Chairman of Budget Committee, Environmental Engineering, ITB. 2016- present
- Financial Manager, Solid and Hazardous Waste Laboratory, ITB. 2014- present

**2-2. Research Experience**

Number of years of experience in the field related to the project:

12 years

Field of specialization:

Solid waste technology and management, Hazardous waste management

**2-3. Research Achievements**

List of Major Publications within 5 years:

1. **I Made Wahyu Widyarsana**, Tri Padmi, Enri Damanhuri. "Observation of Several Landfill Sites at Small-Medium Cities in Bali Province, Indonesia". 2nd International Conference on Waste Management and Environment (ICWME 2015), Kuala Lumpur. 20-22 Agustus 2015.
2. Tri Padmi, Sukandar, **I Made Wahyu Widyarsana**, "Utilization Of Remediated Soil And Deoil Drilling Cutting Waste As Mixing Materials In Concrete Block Using Solidification Method", The 8th Asian Pacific Landfill Symposium – Special Symposium in Vietnam, Ho Chi Minh City, Vietnam, 23 October 2014, Ho Chi Minh City University of Technology, Vietnam. 2014.

3. **I Made Wahyu Widyarsana**, Enri Damanhuri, Tri Padmi, Made Sudiana Mahendra, I Wayan Budiarsa Suyasa, 2013, An Integration of Informal and Formal Sectors as a Proposal of E-Waste Management Concept in Urban Areas in Indonesia by Optimizing System and Cost of E-Waste Collection, 1st Asia Future Conference 2013 Asian in The World: Potentials of Regional Cooperation, 8-10 March 2013, Bangkok – Thailand. 2013.
4. **I Made Wahyu Widyarsana**, Potential of Urban Mining in West Java, Case Study: Electronic Waste, Buletin Sinergi No.I/April/2012. Energy and Mineral Resources Agency West Java. 2012.
5. Enri Damanhuri, **I Made Wahyu**, Tri Padmi, *Evaluation of waste recycling potential in Bandung Municipal Solid Waste*. World Review of Science, Technology and Sustainable Development, Vol. 7, No. 3, 2010. (International Journal)
6. **I Made Wahyu Widyarsana**, Damanhuri,, Padmi, T., Winarsih, D.R., Azizah, S. “The Potential of Computer E-Waste Disposal to Hazardous Waste Landfill, Case Study of the City of Bandung (West Java, Indonesia)”. Proceedings APLAS Seoul 2010, The Sixth Asian-Pacific Landfill Symposium, Seoul-Korea Selatan, pp. 401-405. 2010, Seoul. August 4, 2010.
7. **Widyarsana, I M.W.**, Winardy, D., Damanhuri,, Padmi, T. Identification Computer E-Waste Material and Recycled Components at E-Waste Collection Site (Case Study: Bandung), Proceedings of the SNPs X Year 2010, Postgraduate Program, Institute of Technology Surabaya, Surabaya-Indonesia, pp. v.5-v.11. 2010.
8. **Widyarsana, I M.W.** Technical Planning of Rehabilitation Final Disposal Bengkala in Buleleng Bali Province, Proceedings of SNPs X Year 2010 Postgraduate Program, Institute of Technology Surabaya, Surabaya-Indonesia, pp. v.12-v.19. 2010
9. **Widyarsana, I M.W.**, Damanhuri,, Padmi, T. Study Approach End-of-Life Electronics (E-Products) Computer on Usage in Households (Case Study Bandung Area), Journal of Tropical Environment: Environmental Problems Research in Indonesia, 16, pp. 293-308. 2010
10. **Widyarsana, I M.W.**, Winarsih, D.R., Damanhuri,, Padmi, T. Management of Electronic Waste (E-Waste) as hazardous and toxic waste in Indonesia, Proceedings of the National Seminar on Environmental Management, Semarang, Indonesia, pp.116-122. 2010.
11. **Widyarsana, I M.W.**, Damanhuri,, Padmi, T. Identification of Hazardous Content in Computer Electronic Waste as Hazardous Waste, Proceedings of the International Conference on Global Resource Conservation (ICGRC) 2010, Malang-Indonesia, pp. 181-189. 2010.
12. Enri Damanhuri, **I Made Wahyu**, Ruslan Ramang dan Tri Padmi. Evaluation of Municipal Solid Waste Flow in the Bandung Metropolitan Area, Indonesia. (Authors:). J Mater Cycles Waste Management (2009) 11:270-276 DOI 10.1007/s10163-009-0241-9. Received: April 30, 2008 / Accepted: March 31, 2009.
13. Sukandar dan **Widyarsana, I M.W.** Recycling of E-waste In Indonesia by Informal Sector: Case Study of Gold Recovery from E-waste Components, Proceedings The Sixth NIES Workshop on E-Waste, Hokkaido-Japan, pp. 151-160. 2009.
14. **Widyarsana, I M.W.**, Damanhuri,, Padmi, T., Sidarto, K.A. Study of Computer E-Product Ownership on Household Level in The City of Bandung, Proceedings The 1<sup>st</sup> International Conference on Sustainable Infrastructure and Built Environment (SIBE) in Developing Countries, Bandung-Indonesia, pp. 95-101. 2009.
15. Padmi, T., **Widyarsana, I M.W.**, Apriyanti, L., Junpi, L.L. The Recycling Potential of Poly

Ethylene Terephthalate (PET) Drinking Water Bottle Wastes, Proceedings The 1<sup>st</sup> International Conference on Sustainable Infrastructure and Built Environment (SIBE) in Developing Countries, Bandung-Indonesia, pp. 186-194.

16. **Widyarsana, I M.W.**, Damanhuri., Padmi, T., Sidarto, K.A. Study of E-Product Ownership in Household Level (Case Study and Surrounding Area). Proceedings Second Annual International Conference 2009 on Green Technology and Engineering (ICGTE), Bandar Lampung-Indonesia, pp. 459-464. 2009.
17. Damanhuri., **Widyarsana, I M.W.**, Ramang, R., Padmi, T. Evaluation of Municipal Solid Waste Flow in The Bandung Metropolitan Area Indonesia, Journal of Material Cycles and Waste Management, **11**, pp. 270-276. 2009.
18. **Widyarsana, I M.W.**, Sukandar, Damanhuri, The Role of Informal Sectors in E-Waste Handling in Bandung City, Proceedings The International Conference 2008, Proceedings The Sustainable Environmental Technology and Sanitation for Tropical Region, Surabaya-Indonesia, pp. 428-434. 2009.
19. **Widyarsana, I M.W.**, Winarsih, D.R., Damanhuri., Padmi, T. Study Potential of Generation of E-Waste Computer from Services Activities (Informal Sector) Case studies of Bandung, Journal of Environmental Engineering ITB, **14**, pp.93-100. 2009.
20. **Widyarsana, I M.W.**, Padmi, T., Damanhuri, Study externalities in Pattern Household Waste Management of the City Waste Management System with Dynamic Model Development, Case Study Bandung, Proceedings of SNPs VII Year 2007, Postgraduate Program, Institute of Technology Surabaya, Surabaya-Indonesia, pp. LNK01.1-LNK01.7. 2007.

**Research within 5 years:**

1. Assistant Researcher at the Research and Innovation Programme ITB in 2012, with the topic: Patterns Recycling IC (Integrated Circuit) on Electronic Waste (E-Waste) in the Recovery of Gold in the Informal Sector (Case Study: Bandung). (Research Team Leader: Dr. Ir. Tri Padmi). 2012.
2. ADB TA-7450 (REG) Project Preparation Support for Livable Cities in Asia: Promoting Municipal Solid Waste Management through Composting. IGES under its ADB TA-7450 (REG) Project Preparation Support for Livable Cities in Asia contract (contract number 100052-S41693). 2011-2012.
3. Assistant Researcher at the Research Program ITB in 2010, with the topic: The content of B3 and Characterization Study of Waste Recycling Computers For Basic Identification Life Cycle Analysis of Electronic Waste (E-Waste) Case Study: Bandung Area. (Research Team Leader: Dr. Ir. Tri Padmi). 2010.
4. Assistant Researcher at the Research Program of ITB in 2010, with the topic: Assessment Process Recovery of Precious Metals (Gold) Components of Electronic Waste (E-Waste) Conducted by the Informal Sector. (LPPM-ITB). 2010.
5. Assistant Researcher at the Research Program of ITB in 2010, with the topic: Management Study of Waste Recycle Center at Sabuga as Basic Research Investment Planning. LPPM-ITB. 2010.
6. Assistant Researcher at the Research Program of ITB in 2010, with the topic: Characterization Study Hazardous Contents and Waste Recycling Computers for Basic Identification Life Cycle Analysis of Electronic Waste (E-Waste). LPPM-ITB. 2010.

**Other relevant information:**

### **Professional Activities**

- Masterplan of municipal solid waste in Gianyar, Bali. 2016.
- DED (detailed engineering desain) of Hazardous Waste Landfill in Ketapang. PT. WHW. 2016.
- Assistance of Preparation for Development Program of Water Supply System in Slum Area of Maluku Province. Ministry of Public Work. 2016.
- DED (detailed engineering desain) of waste final disposal in Karangasem, Bali, Indonesia. 2015.
- DED (detailed engineering desain) of Ash-yard in Batang, Central Java, Indonesia. 2015
- Facilitating The Preparation of an Outline Plan of Wastewater Treatment System in Morotai, North Maluku. Ministry of Public Work. 2015.
- Facilitating The Preparation of an Outline Plan of Wastewater Treatment System in West Halmahera, North Maluku. Ministry of Public Work. 2015.
- Masterplan and DED (detailed engineering design) of waste final disposal in North Morowali. 2014.
- Masterplan and DED (detailed engineering design) of waste management Central Mamuju, West Sulawesi Province. 2014.
- Masterplan and DED (detailed engineering design) of waste final disposal in Kepahiang, Bengkulu Province. 2014.
- Masterplan of Waste Management System Masohi City, Maluku Province, Indonesia, 2014
- DED of Drainage System Bula City, East Seram. 2014.
- Landfill Review of Alumina Hazardous Waste, PT. Indonesia Chemical Alumina. 2014
- Masterplan of Drainage System in Morotai Island. 2014.
- Waste Masterplan and DED of Waste Final Disposal in East Halmahera, North Maluku Province. 2014.
- DED of New Ash Yard Landfill PLTU (Power Plant) Tanjung Jati B. PT. Central Java Power. 2014.
- DED (detailed engineering desain) of Pomalaa Sanitary Landfill. PT. ANTAM Tbk. UBPN Sultra. 2013.
- Preliminary Study Potential Greenhouse Gas Emissions (GHG) Sector Urban Waste District in Kendari. V- NAMAs – Vertically Integrated NAMAs for the Involvement of Sub-National Actors in National Mitigation Strategies, Deutsche Gesellschaft Fur Internationale Zusammenarbeit (GIZ) GMBH. Cooperation with the Solid and Hazardous Waste Laboratory, ITB. 2013.
- Technical Planning in Landfill Gas Management (PPLP-16.2013). PPLP Directorate, Directorate General of Human Settlements, Ministry of Public Works. 2013.
- DED of New Ash Yard Landfill PT. Kaltim Prima Coal. PT. KPC. 2012.
- DED (detailed engineering desain) of waste final disposal in Kotamobagu City, North of Sulawesi. 2012.
- Masterplan and DED (detailed engineering design) of waste final disposal in Kendari City, South East Sulawesi. 2012.