

*home:*  
Jalan Delman Indah II No. 6  
Tanah Kusir  
Jakarta Selatan 12240 - Indonesia  
Phone: (62-21) 729-3549  
Fax: (62-21) 723-9357

*office:*  
Jalan Deplu Raya No. 10 A  
Bintaro  
Jakarta Selatan 12330 - Indonesia  
Phone: (62-21) 734-2354  
Fax: (62-21) 734-2175

# RUDY YUWONO

## GENERAL

<b>Name</b>	Rudy Yuwono
<b>Sex</b>	Male
<b>Birthplace</b>	Jakarta, Indonesia
<b>Birth date</b>	June 24, 1963
<b>Nationality</b>	Indonesia
<b>Professional association membership</b>	<p>Ikatan Ahli Teknik Penyehatan dan Teknik Lingkungan Indonesia (<i>Indonesian Society of Sanitary and Environmental Engineers</i>), since 1988, currently <u>the Secretary General</u></p> <p>Water Environment Federation, USA, since 1992</p> <p>Ikatan Ahli Pengelolaan Lingkungan Hidup Indonesia (<i>Indonesian Association of Environmental Management Experts</i>), since 1999</p>
<b>Language &amp; degree of proficiency</b>	<p><b>ENGLISH</b></p> <p>Spoken: Excellent</p> <p>Written: Excellent</p> <p>Reading: Excellent</p> <p><b>INDONESIAN</b></p> <p>Spoken: Excellent</p> <p>Written: Excellent</p> <p>Reading: Excellent</p>

## EDUCATION & TRAINING

<b>Degree</b>	<p><b>1990 - 1993</b></p> <p>MASTER OF SCIENCE in Environmental Engineering Department of Civil and Environmental Engineering <u>Utah State University</u>, Logan, Utah, USA</p> <p><b>1982 - 1988</b></p> <p>INSINYUR in Environmental Engineering Department of Environmental Engineering <u>Institut Teknologi Bandung</u>, Bandung, West Java, Indonesia</p>
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## Professional trainings

<b>2010</b>	AIR POLLUTION CONTROL MANAGER by AOTS and the Japan Environmental Managers Association for Industries, Yokohama, Japan STRATEGIC ENVIRONMENTAL ASSESSMENT by the Ministry of Environment and the Danish International Development Agency (DANIDA)
<b>2007</b>	INTEGRATED SOLID WASTE MANAGEMENT by Badan Pengkajian dan Penerapan Teknologi (BPPT)
<b>2005</b>	WATER POLLUTION CONTROL MANAGER by AOTS and the Japan Environmental Managers Association for Industries, Yokohama, Japan
<b>2001</b>	EARA-APPROVED ISO 14001 AUDITTING by The British Standardization Institute
<b>2000</b>	ZERO WASTE SOLID WASTE MANAGEMENT by the Agency for Technology Research and Application (BPPT), Indonesia PROJECT MANAGEMENT by PT Prosys Manajemen Utama, Jakarta
<b>1999</b>	ENVIRONMENTAL AUDITING by the University of Indonesia WASTE MINIMIZATION ASSESSMENT by the Dana Mitra Lingkungan Indonesia
<b>1998</b>	EFFECTIVE TRAINING TECHNIQUES by the Institute of Management Education, Jakarta WASTEWATER TREATMENT PLANT OPERATION by PT Envitech Perkasa, Jakarta
<b>1997</b>	DESIGNING EFFECTIVE PUBLIC CAMPAIGN by Jakarta School of Communication VEHICULAR EMISSION AIR POLLUTION by Swisscontact, Jakarta
<b>1996</b>	CLEANER PRODUCTION TRAINING-OF-TRAINERS by USAID/US-AEP Jakarta
<b>1993</b>	TOXIC AND HAZARDOUS WASTE MANAGEMENT by the Ministry of Environment Indonesia SOLID WASTE MANAGEMENT FOR DEVELOPING COUNTRIES by the World Bank Indonesia
<b>1992</b>	BIOREMEDIATION OF CONTAMINATED SOILS by the Utah State University, USA
<b>1991</b>	BASIC CERTIFICATION OF ENVIRONMENTAL IMPACT ASSESSMENT by the University of Indonesia

## Others

<b>1995 – 1996</b>	LEADERSHIP FOR ENVIRONMENTAL AND DEVELOPMENT (LEAD) PROGRAM by the Rockefeller Foundation and Yayasan Pembangunan Berkelanjutan (the Sustainable Development Foundation). Including attending 3 international workshops in Costa Rica, Thailand, and Zimbabwe.
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## EMPLOYMENT RECORD

<b>July 1995 - present</b>	<b><u>Qipra Galang Kualita</u></b> Position: Technical Director Duties: Providing strategic guidance in company development, managing and providing guidance and supervision in project implementation, conducting quality control, liaison with government, marketing of company services, and serving as main environmental expert.
<b>October 1993 - July</b>	<b><u>United States – Asia Environmental Partnership</u></b> Position: Deputy Director

<b>1995</b>	Duties:	Promoting US environmental technologies and services to Indonesian potential buyers, providing strategic business advises to US companies on Indonesian markets, identifying potential projects to US businesses, maintaining relations with Indonesian government and business communities, creating programs to increase local knowledge on the best available environmental technologies.
<b>September 1989 – May 1990 &amp; April 1993 – September 1993</b>	<b><u>Arkoni Engineering Manggala Pratama</u></b>	
	Position:	Environmental Engineer
	Duties:	Involved as expert and project assistant manager in various environmental urban infrastructure projects including solid waste management, water supply, drainage, and sewerage system.

## SELECTED PROJECT EXPERIENCE

### Studies and program design

<b><u>Sanitation Training and Capacity Study</u></b>	
Location:	Jakarta
Timeframe:	2011
Project by:	The Water Sanitation Program – East Asia & Pacific (WSP-EAP) WASPOLA Facility
Position:	Team Leader
Duties:	Studied the demand and supply of sanitation personnel in Indonesia, quantitatively and qualitatively. It is expected that the study will find ways to improve the capacity of sanitation personnel to meet the demand of the PPSP program (Accelerated Development of Sanitation Sector). In the study, definition, classification, qualification, and competence of sanitation personnel are defined. Capacity of universities and training institutions related to sanitation are assessed. Recommendations to improve capacity of sanitation personnel are developed.
<b><u>Development of the AMDAL Information System Software.</u></b>	
Location:	Jakarta, Bandung, and Surabaya
Timeframe:	2009 - 2011
Project by:	DANIDA for ESP Phase 1 and Phase 2
Position:	Environmental Specialist
Duties:	Developed an information system to manage environmental data generated by AMDAL (EIA) Studies and environmental management implementation reports. The information system (called Dokumentasi AMDAL Dan UKL-UPL or DADU) is intended to allow utilization of environmental data for monitoring and planning by local authorities. Also such system can be used to guide AMDAL consultants in developing its AMDAL document as well as to support AMDAL Review Committee member. Work includes conducting workshops to gather information from AMDAL consultants, developing flowcharts and data structure, software programming, trial application, revising and improving the program, developing user manual, conducting trainings, and socialization of the information system. DADU is decided to be put on the internet in 2011 with the URL of <a href="http://www.dadu-online.com">www.dadu-online.com</a> .
<b><u>Design of a Community-based Sludge Management System</u></b>	
Location:	Jakarta
Timeframe:	2008
Project by:	Mercy Corps
Position:	Environmental Specialist

Duties:	Designed a community-based septic tank sludge management system consisting of desludging unit and removable septage treatment plant for a slum area in North Jakarta. Worked closely with community-facilitators and leaders in designing the system. Financial aspect of the construction and operation of the system was also analyzed. Work also includes septic tank survey, potential customer survey, route analysis, engineering design, developing manuals, and facilitating discussion with the government of DKI Jakarta.
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#### **AMDAL Reform Program – Regional Pilot Project Component**

Location:	Jakarta, West Java, East Kalimantan
Timeframe:	November 2004 – February 2006
Project by:	The World Bank
Position:	Co Team Leader
Duties:	Led an innovative effort of creating alternative concepts for AMDAL (Indonesia's Environmental Impact Assessment) procedures with close involvement of AMDAL stakeholders in the provinces of West Java and East Kalimantan. The work entailed conducting baseline study on the state of AMDAL implementation in the two provinces, identifying key problems, and developing ideas for changes in the AMDAL system that would improve effectiveness and efficiency. Results of the work were presented to the Ministry of Environment as input for their ongoing process of revising existing AMDAL regulations.

#### **AMDAL Reform Program – Regional Pilot Project Component**

Location:	Jakarta, West Java, East Java, East Kalimantan
Timeframe:	February – August 2005
Project by:	The World Bank
Position:	Co Team Leader
Duties:	Led an assessment of the quality and effectiveness of public involvement in the AMDAL process, using 10 case-studies of actual projects in the locations above. The assessment was tied into the Ministry of Environment's effort of revising existing AMDAL regulations, especially in relation to guidelines for public involvement and information disclosure.

#### **AMDAL Reform Scoping Study**

Location:	Jakarta, West Java, South Sulawesi, Bali, East Kalimantan
Timeframe:	May – June 2004
Project by:	The World Bank
Position:	Team member
Duties:	Conducted evaluation of progress and problems regarding implementation of AMDAL system in various regions. Identified common issues that need to be addressed in efforts to reform the AMDAL system. Organized dialog with private sector companies. Prepared summary of findings and provided input for World Bank internal reporting.

#### **Review and Compilation of Indonesian Environmental Regulations**

Location:	Jakarta
Timeframe:	2001-2003
Project by:	Enhesa, Belgium
Position:	Team Leader
Duties:	Provided guidance and oversaw quarterly reviews of new environmental regulations for client's international compilation of EHS regulations. Work included monitoring of new regulations from relevant government agencies, identifying key content of the regulations and preparing English summary of regulations.

#### **Development of Concept of the Cleaner Production Center**

Location:	Jakarta
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Timeframe: 2004  
 Project by: ProLH-GTZ  
 Position: Environmental Specialist  
 Duties: Develop concepts and operational scheme regarding the establishment of the Indonesian Cleaner Production Center (ICPC). Work involves developing ICPC concepts, networking with industries and non-governmental stakeholders, dialog with potential partners, and providing guidance on institutional development. Also served as chairperson in working group discussion in a Stakeholders Workshop held. Results were fed into the design of the ICPC for further discussion with the Ministry of Environment.

## **Industrial waste management**

### **Engineering Design of Bioremediation Treatment Unit of Oily Wastes**

Location: Sangatta, East Kalimantan  
 Timeframe: May – December 2003 (5 months)  
 Project by: Kaltim Prima Coal  
 Position: Bioremediation Expert  
 Duties: Include site survey, waste sampling and analysis, treatability study, engineering detailed design, permitting, developing operation manual, and construction supervision.

### **Pilot Project of Bioremediation of Acid Sludge**

Location: Balikpapan, East Kalimantan  
 Timeframe: January – December 2003 (12 months)  
 Project by: Pertamina UP V, Balikpapan  
 Position: Bioremediation Expert  
 Duties: Include site characterization, waste sampling and analysis, treatability study, developing master plan, developing engineering detailed design, developing operation manual, construction supervision, operation and maintenance, monitoring, and reporting.

## **Solid waste management**

### **Community-based Water and Sanitation Management**

Location: Jakarta and Surabaya  
 Timeframe: February 2004 – September 2004  
 Project by: The Word Vision Indonesia  
 Position: Team Leader  
 Duties: Coordinating all works including surveys, planning community involvement, developing community-based water and waste management system, designing water treatment facility and small scale waste recycling center, analyzing financial aspect

### **Solid Waste Innovations in Management and Financial Involvement of NGOs (SWIMFIN) – Development of Comm**

Location: Kabupaten Bandung, West Java  
 Timeframe: February – November 2003  
 Project by: United States Agency For International Development  
 Position: Team Leader  
 Duties : Include survey and data collecting, designing NGO and community involvement, designing and developing community-based and sustainable solid waste management system, designing small scale waste recycling center, analyzing financial aspect, seeking support from local government, supervising the construction of waste collection and transportation facilities

### **Solid Waste Management System for Kota Legenda Housing Estates**

Location: Cikarang, West Java  
 Timeframe: February – July 1996 (5 months)  
 Project by: Developer of Kota Legenda Housing Estate  
 Position: Assistant to Team Leader (Solid Waste Management Expert)

Duties: Include survey and data collecting, developing solid waste management master plan, developing waste collection and transportation system, designing the waste recycling center and temporary storage facility, analyzing financial aspect.

**Detail Engineering Design of Bantar Gebang Sanitary Landfill, Zone 3**

Location: Bantar Gebang, West Java  
Timeframe: March - September 1993 (6 months)  
Project by: The Cleansing Agency of the City of Jakarta  
Position: Co Team Leader  
Duties: Include developing detail engineering of sanitary landfill and leachate treatment plant, developing organizational structure, developing standard operational procedure, and estimating capital and operational cost.

**Solid Waste Management Privatization Sector Participation Study, Zone 3**

Location: Jakarta  
Timeframe: June - August 1993 (3 months)  
Project by: The World Bank  
Position: Local expert  
Duties: Include survey and data collecting, providing inputs to the main expert (Mrs. Sandra Cointreau of the World Bank) on existing solid waste management practices in Indonesia, analyzing privatization risks and benefits, organizing workshop, developing proceeding.

**Detail Engineering Design of Bantar Gebang Sanitary Landfill, Zone 1**

Location: Bantar Gebang, West Java  
Timeframe: November 1989 – May 1990 (7 months)  
Project by: The Cleansing Agency of the City of Jakarta  
Position: Sanitary Engineer  
Duties: Include survey and data collecting, developing detail engineering of sanitary landfill and leachate treatment plant, designing transportation system, creating landfill operational handbook, estimating capital and operational cost.

**Master Plan of Solid Waste Management System for the City of Jakarta**

Location: Jakarta  
Timeframe: August – December 1989 (4 months)  
Project by: The Cleansing Agency of the City of Jakarta  
Position: Sanitary Engineer  
Duties: Include survey and data collecting, revising conceptual design of sanitary landfill, developing waste final transportation system, cost analysis.

**Wastewater  
management**

**Support for Distant Learning to Wastewater Treatment Operator Improvement Program**

Location: Jakarta  
Timeframe: April 2005 – September 2005  
Project by : The United States – Asia Environmental Partnersip and Ikatan Ahli Teknik Penyehatan dan Teknik Lingkungan Indonesia (Indonesian Society of Sanitary and Environmental Engineers)  
Position : Team Leader  
Duties : Coodinating all works Including surveys,planning and developing training need assessment,need to know criteria and WWTP person in-charge competency standard, designing and producing the self-instruction Training Package: WWTP professional operator in multimedia CDs

**Profesional Wastewater Operator Training and Certification**

Location: Jakarta and Bandung  
Timeframe: May – September 2002

Project by : Water Environmental Federation, The United States – Asia Environmental Partnersip and Ikatan Ahli Teknik Penyehatan dan Teknik Lingkungan Indonesia ( Indonesian Society of Sanitary and Environmental Engineers  
 Position : Tem Leader  
 Duties : Coordinating all works include survey and data collecting questioner in WWTP industrial, organizing workshop and training,publishing WWTP professional operato certification in other area,discussion and coordinating with local government agencies regarding WWTP certification.

**Professional Operator Training and Certification Study**

Location: Jakarta, West Java  
 Timeframe: March – August 2001 (6 months)  
 Project by: US-AEP and WEF  
 Position: Team Leader  
 Duties: Include survey and data collecting, organizing workshops, developing certification scheme, coordinating with local government agencies, developing need-to-know criteria, developing examination.

**Engineering Support Service of a Chemical Industry WWTP Construction**

Location: Karawang, West Java  
 Timeframe: 1996 – 1997 (14 months)  
 Project by: PT. Polysindo Eka Perkasa  
 Position: Local Team Leader (Wastewater Engineer)  
 Duties: Include supervising treatability study, developing conceptual design, cost analysis, supervising detail engineering design process, supervising construction, and monitoring commissioning.

**Conceptual Design of a Textile Industry WWTP**

Location: Pemalang, East Java  
 Timeframe: 1996 (4 months)  
 Project by: Undisclosed  
 Position: Local Team Leader (Wastewater Engineer)  
 Duties: Include survey and data collecting, conducting treatability study, developing conceptual design, obtaining government approval and permit, and estimating capital and operational cost.

**Conceptual Design of a Electronic Industry WWTP Improvement**

Location: Bogor, West Java  
 Timeframe: 1996 (2 months)  
 Project by: Undisclosed  
 Position: Team Leader (Wastewater Engineer)  
 Duties: Include survey and data collecting, analyzing WWTP performance, developing conceptual design, contacting local government, and estimating capital and operational cost.

**Commissioning of a Leachate Treatment Plant**

Location: Bantar Gebang, West Java  
 Timeframe: 1993 (3months)  
 Project by: The Cleansing Agency of the City of Jakarta  
 Position: Local Team Leader (Wastewater Engineer)  
 Duties: Include conducting final check of a newly constructed leachate treatment plant, supervising water test, conducting commissioning, advising operation adjustment, obtaining government approval, and periodic reporting.

**Capacity Building**

**Training for the Head of AMDAL Review Committee**

Location: Jakarta  
 Timeframe: 2010

Project by: Danish International Development Agency (DANIDA) through the Environmental Support Programme (ESP) Phase 2

Position: Environmental Advisor

Duties Designed and delivered a training course for the Head of AMDAL (Environmental Impact Assessment or EIA) Committee. Work includes evaluating the existing training program, studying the institutional capacity of local environmental agencies in reviewing AMDAL, training needs assessment, selecting the methods, developing the curriculum, and producing the materials. The 4-day training course was attended by local government representatives. Adult-learning methods, that optimizing interactivity, were used in the training course to replace the teaching approach used in the previous training program. The training course will be replicated in various areas on Indonesia.

#### **Supporting the Development of AMDAL Consultants Certification Scheme**

Location: Jakarta

Timeframe: 2008

Project by: DANIDA through ESP Phase 2

Position: Environmental Advisor

Duties Supported The Ministry of Environment in the development of a certification scheme for AMDAL (EIA) consultants. Work includes providing inputs to the competency standard, collecting and classifying examination materials, producing administration and promotion materials, and developing database for AMDAL certified consultants.

#### **Development of the Environmental Pollution Control Manager Certification Scheme**

Location: Jakarta

Timeframe: 2008

Project by: BPLHD Province of West Java

Position: Environmental Advisor

Duties Supported The Provincial Environmental Management Agency (BPLHD) of West Java in the development of a certification scheme for industrial environmental / water pollution control manager (EPCM). Work includes surveying the capacity of existing environmental personnel, creating the competency standard, developing the manual, composing the basic training materials, and creating certification scheme. A number of experts from the Japan Environmental Management Association of Industries (JEMAI) and representatives of selected industries were involved in the activity. The competency standard has been officially listed as a Ministry of Environment Regulation. Ikatan Ahli Teknik Penyehatan dan Teknik Lingkungan Indonesia (the Indonesian Society for Sanitary and Environmental Engineers or IATPI) had been granted as the EPCM national certification body.

#### **Development of the Sanitary and Environmental Engineer Certification Scheme**

Location: Jakarta

Timeframe: 2004

Project by: Ikatan Ahli Teknik Penyehatan dan Teknik Lingkungan Indonesia (IATPI)

Position: Environmental Engineer

Duties Worked on behalf of IATPI in the development of a certification scheme for sanitary and environmental engineers involved in construction services. Work includes studying the capacity of existing sanitary and environmental engineers, creating the competency standard, and creating certification scheme. The competency standard has been officially listed in the Lembaga Pengembangan Jasa Konstruksi (The Agency for Construction Service Development or LPJK).

#### **Development of the Community-based Water and Sanitation Management System**

Location: Jakarta

Timeframe: 2004



Project by: The World Vision Indonesia  
 Position: Environmental Engineer  
 Duties: Provided technical expertise in the development of a community-based water and solid waste management systems in urban slum areas of Surabaya and Jakarta. Work includes conducting community surveys on clean water needs and willingness-to-pay, as well as studying solid waste composition and current disposal practices. Prepared materials and conducted training for community leaders and facilitators. Developed a guidebook for field staff to design water and sanitation systems in other areas.

**Development of Community-based Sustainable Solid Waste Management**

Location: Bandung  
 Timeframe: 2001  
 Project by: The United States – Asia Environmental Partnership (US-AEP) through Asia Foundation  
 Position: Environmental Engineer  
 Duties: Provided technical and institutional expertise to a community group in Kecamatan Katapang, Kabupaten Bandung, West Java. Worked closely with community-leaders in developing a garbage collection system, compost facility, waste separation facility, and a financial management system. Also assisted community group in dialog with community members, and in developing materials for community awareness and participation. Facilitated community leaders to approach the local Cleansing Department to obtain formal recognition and support for community waste reduction efforts. The project is called Solid Waste Innovations in Management and Financial Involvement of NGOs (SWIMFIN).

**One-day Training on Effective WWTP Operational Management to Improving Efficiency**

Location: Jakarta  
 Timeframe: February - May 2002 (4 months)  
 Project by: WEF and US-AEP  
 Position: Workshop Coordinator  
 Duties: Include advising workshop main topic, developing 1-day agenda, obtaining speakers, obtaining and coordinating with foreign speakers, strategizing workshop promotion, final preparation of training materials, and assisting in training commencement.

**Workshop on Developing Urban Solid Waste Management System and Institutions**

Location: Jakarta  
 Timeframe: May 2002 (1 month)  
 Project by: US-AEP and the Ministry of Environment of Indonesia  
 Position: Workshop Consultant  
 Duties: Include advising workshop main topic, developing 2-day agenda, obtaining speakers, coordinating with foreign speakers, organizing working group discussion, and assisting in proceeding development.

**Workshop on the Implementation of EIA Public Consultation Process**

Location: Jakarta  
 Timeframe: May – June 2002 (1 month)  
 Project by: The World Bank  
 Position: Workshop Consultant  
 Duties: Include developing 1-day agenda, obtaining speakers, coordinating with foreign speakers, organizing working group discussion, and assisting in proceeding development.

**Training of Trainers for Facilitating Sanitation and Solid Waste Public Campaign**

Location: Bandung, West Java  
 Timeframe: January – March 2002 (3 months)

Project by: The ADB and the Ministry of Regional Human Settlement and Infrastructure  
Position: Training specialist  
Duties: Include selecting training methods, developing 3-day agenda, supervising training material development, and coordinating with local government.

**Training of Bioremediation for Soil Pollution**

Location: Bandung, West Java  
Timeframe: September – February 2002 (6 months)  
Project by: The Regional Institute of Environmental Technologies (RIET)  
Position: Training specialist  
Duties: Include selecting training methods, developing 4-day agenda, involved in training material development, assisting training marketing effort, and assigned as trainer.

**Training of Wastewater Treatment Plant Performance Optimization**

Location: Serang, Province of Banten  
Timeframe: July 2001 – February 2002 (7 months)  
Project by: USAID under SAVER Project  
Position: Training manager  
Duties: Include surveying WWTP owners, performing wastewater efficiency needs analysis, selecting training methods, developing 4-day agenda, involved in training material development, coordinating with local government and foreign speaker, managing the training implementation, assigned as trainer, and coordinating press coverage.

**Training on Cleaner Production and ISO 14001 Awareness**

Location: Jakarta  
Timeframe: September – October 2001 (2 months)  
Project by: University of Trisakti  
Position: Training advisor  
Duties: Include advising agenda, involved in training material development, revising training handouts, preparing trainer, and coordinating the 2-day workshop implementation.

**In-House Training of Industrial Estate Wastewater Treatment Plant Operation**

Location: Cikarang, west Java  
Timeframe: September 2001 (1 month)  
Project by: PT. Jababeka Industrial Estate  
Position: Training coordinator  
Duties: Include selecting training methods, developing 4-day agenda, involved in training material modification, and supervising training implementation.

**Training of Professional Operator of Wastewater Treatment Plant**

Location: Tangerang, Province of Banten and Denpasar Bali  
Timeframe: June 2001 - August 2001 (3 months)  
Project by: The Regional Institute of Environmental Technologies (RIET)  
Position: Training manager  
Duties: Include selecting training methods, developing 3-day agenda, involved in training material development, and assigned as trainer.

**In-House Training of Petrochemical Industry Wastewater Treatment Plant Operation**

Location: Cilegon, Province of Banten  
Timeframe: July 2001 (1 month)  
Project by: PT. Chandra Asri Petrochemical Center  
Position: Training coordinator  
Duties: Include selecting training methods, developing 3-day agenda, coordinating with client, involved in training material modification, and supervising training implementation.

#### **Pilot Training of Professional Operator of Wastewater Treatment Plant**

Location: Bandung, West Java  
Timeframe: July 2001 (1 months)  
Project by: US-AEP and WEF  
Position: Training Coordinator  
Duties: Include coordinating with local government, selecting training methods, developing 5-day agenda, involved in training material development, and assigned as trainer.

#### **Training of EIA Public Consultation Facilitators**

Location: Surabaya, East Java  
Timeframe: July - August 2001 (2 month)  
Project by: Mobil Cepu Limited (Subsidiary of Exxon Mobil Indonesia)  
Position: Training specialist  
Duties: Include advising agenda of 4 day training, coordinating with the University of Airlangga (Surabaya) Environmental Center, organizing discussion, supervising training material development, and assigned as trainer.

#### **In-House Training of Oil Industry Wastewater Treatment Plant Operation**

Location: Pekanbaru, Province of Riau  
Timeframe: May 2001 – July 2001 (2 months)  
Project by: Undisclosed  
Position: Training advisor  
Duties: Include selecting training methods, developing 4-day agenda, coordinating with client, involved in training material development, supervising training implementation.

#### **In-House Training of Oil Industry Wastewater Treatment Plant Operation**

Location: Medan, North Sumatera  
Timeframe: May 2001 – June 2001 (2 months)  
Project by: Exxon Mobil Indonesia  
Position: Training advisor  
Duties: Include selecting training methods, developing 4-day agenda, coordinating with client, involved in training material development, supervising training implementation.

#### **Training of Hospital Waste Management**

Location: Jakarta  
Timeframe: February 2001 – June 2001 (5 months)  
Project by: Qipra Galang Kualita  
Position: Training specialist  
Duties: Include surveying hospitals, selecting training methods, developing 4-day agenda, coordinating trainers, involved in training material development, assisting training marketing effort, supervising training implementation, assigned as trainer.

#### **Workshop on Jakarta Total Integrated Wastewater and Sewerage System (TIWASS)**

Location: Jakarta  
Timeframe: January – February 2000 (2 months)  
Project by: Global Grid Pty, Australia  
Position: Workshop manager  
Duties: Include advising 1-day workshop agenda, coordinating workshop materials, organizing working group discussion, preparing workshop handouts, coordinating moderators and presenters, supervising workshop implementation, and preparing proceedings.

#### **Training of Waste Minimization Assessment**

Location: Jakarta  
Timeframe: February 1999 – April 1999 (3 months)  
Project by: Dana Mitra Lingkungan Indonesia for CTEM Project  
Position: Training coordinator  
Duties: Include developing 2-day agenda, coordinating trainers, involved in training material revision, obtaining participants, and supervising training implementation.

**Training of Water Treatment Plant Operation and Maintenance**

Location: Jakarta  
Timeframe: September 1999 – January 2000 (5 months)  
Project by: PT Thames Jaya Indonesia  
Position: Training manager  
Duties: Include selecting training mechanism, developing 5-day agenda, coordinating trainers, involved in training material development, supervising training implementation, and assigned as trainer.

**Workshop on Vehicular Air Pollution Reduction**

Location: Jakarta  
Timeframe: January 1998 – March 1998 (3 months)  
Project by: Swisscontact for the Jakarta Clean Air Project  
Position: Workshop manager  
Duties: Include advising 1-day agenda, obtaining speakers, coordinating with local government, organizing working group discussion, obtaining participants and assisting in proceeding development.

**Training of Reducing Car Emission for Mechanical Engineering Students**

Location: Jakarta  
Timeframe: March 1998 – April 1998 (2 months)  
Project by: Swisscontact for the Jakarta Clean Air Project  
Position: Training coordinator  
Duties: Include advising 2-day agenda, obtaining speakers, coordinating with local government, organizing working group discussion, obtaining student participants, assisting in proceeding development, and assigned as trainer.

**Training of Reducing Car Emission for NGOs**

Location: Jakarta  
Timeframe: April 1998 – May 1998 (2 months)  
Project by: Swisscontact for the Jakarta Clean Air Project  
Position: Training coordinator  
Duties: Include advising 2-day agenda, obtaining speakers, coordinating with local government, organizing working group discussion, obtaining NGO participants, and assisting in proceeding development.

**In-House Training of Chemical Industry Wastewater Treatment Plant Operation**

Location: Karawang, West Java  
Timeframe: March 1997 (1 month)  
Project by: PT. Polysindo Eka Perkasa  
Position: Training coordinator  
Duties: Include selecting training methods, developing 3-day agenda, coordinating with client, involved in training material development, supervising training implementation, and assigned as trainer.

**Training of Sanitary Landfill Operation**

Location: Bantar Gebang, Bekasi  
Timeframe: April – May 1990 (2 months)  
Project by: The Cleansing Agency of the City of Jakarta  
Position: Trainer

Duties: Include developing 3-day training materials, organizing training logistics, supporting main trainers.

**In-House Training of Chemical Industry Wastewater Treatment Plant Operation**

Location: Karawang, West Java  
Timeframe: March 1997 (1 month)  
Project by: PT. Polysindo Eka Perkasa  
Position: Training coordinator  
Duties: Include selecting training methods, developing 3-day agenda, coordinating with client, involved in training material development, supervising training implementation, and assigned as trainer.

**Water supply**

**Assessment of Water Treatment Plants**

Location: 16 cities in Indonesia  
Timeframe: 1999 (5 months)  
Project by: USAID for Water Efficiency and Rescue Team Project  
Position: Project advisor  
Duties: Include organizing 11 field engineers, monitoring PDAM's water treatment plant auditing activities, analyzing audit field report, coordinating works with USAID, and preparing final report.

**Detail Engineering Design of Water Treatment Plant of Housing Estate**

Location: Serpong, West Java  
Timeframe: February – May 1990 (4 months)  
Project by: Bumi Serpong Damai Housing Estate  
Position: Sanitary Engineer  
Duties: Include developing detail engineering of pumping house and water treatment units, developing standard operational procedure, estimating capital and operational cost.

**Detail Engineering Design of Water Distribution System of Housing Estate**

Location: Tangerang, West Java  
Timeframe: 1988 (3 months)  
Project by: Bintaro Jaya Housing Estate  
Position: Sanitary Engineer  
Duties: Include developing detail engineering of pumping house and water piping, estimating capital and operational cost.

**Assessment of Water Treatment Plant Performance**

Location: Bogor, Cirebon, and Surabaya  
Timeframe: 1987 (4 months)  
Project by: Department of Public Works  
Position: Assistant to Sanitary Engineer  
Duties: Include survey and collecting data of 3 state-owned water treatment plants, analyzing raw and produced water quality, assisting in water treatment plant existing condition analysis, analyzing water treatment plant performance, and preparing draft report.

**Master Plan of Municipal Water Supply System**

Location: Dilli, East Timor  
Timeframe: 1987 (5 months)  
Project by: Department of Public Works  
Position: Assistant to Sanitary Engineer  
Duties: Include survey and collecting data, analyzing raw data quality, assisting in existing condition analysis, preparing alternatives of water supply system, conducting cost analysis, and preparing draft report.

**Auditing and**

**Compliance Audit of a Pharmaceutical Industry**

## assessment

Location: Cimanggis, West Java  
Timeframe: April 2004  
Project by: Integreyted, Inc.  
Position: Environmental Auditor  
Duties: Revising protocols, reviewing Indonesian environmental regulations, reviewed data and information, conducting staff interview and site visit, prepare report and recommendations.

### **Improving the Enviromental Performance of SMEs by Promoting Cleaner Production in Indonesia**

Location: Sidoarjo, Yogyakarta, Klaten  
Timeframe: September 2002 – August 2003  
Project by: Asian Development Bank/ Louis Berger Group  
Position: Technical and Training Specialist  
Duties: Prepared CP Assessment Protocols for the electroplating and iron casting sectors, trained and supervised implementation of CP assessments in 12 SMEs, reviewed data and identified appropriate CP measures for each. Also developed manuals for CP performance monitoring for the above sectors

### **Ecoproductivity Audit and Waste-to-Product Project**

Location: Greater Area of Jakarta  
Timeframe: January 1999 – February 2000  
Project by: Dana Mitra Lingkungan and the US-AEP  
Position: Project Coordinator  
Duties: Include selecting and training auditing techniques to potential auditors, obtaining 35 small-to-medium industries to be audited, monitoring ecoproductivity audit activities, providing technical guidance to auditors, analyzing audit field reports, coordinating works with DML and US-AEP, preparing final report, and budget management.

### **First Phase Environmental Audit of a Textile Mill**

Location: Solo, Central Java  
Timeframe: 1996 (3 months)  
Project by: PT Sritex  
Position: Local Main Auditor  
Duties: Include developing audit protocol, coordinating with industrial staff, conducting audit, analyzing audit results, analyzing audit field reports, developing recommendations, and preparing draft final report.

### **Waste Audit of a Textile Mill**

Location: Pemalang, East Java  
Timeframe: 1996 (2 months)  
Project by: Undisclosed  
Position: Local Main Auditor  
Duties: Include modifying audit protocol, coordinating with industrial staff and local government staff, conducting audit, analyzing audit results, providing technical guidance to other auditors, analyzing audit field reports, developing recommendations, and preparing draft final report.

### **Waste Audit of a Chicken Feedstock Mill**

Location: Tangerang, West Java  
Timeframe: 1995 (4 months)  
Project by: PT. Febrotama Pertiwi (Charoen Pokphand Indonesia)  
Position: Auditor  
Duties: Include developing audit protocol, coordinating with industrial staff, conducting audit, analyzing audit results, analyzing audit field reports, developing recommendations, and preparing draft final report.

**Environmental Audit of Coca-Cola Bottling Facilities in Indonesia**

Location: 9 locations in Indonesia  
Timeframe: 1996 (3 months)  
Project by: Coca-Cola Amatil Indonesia  
Position: Local Audit Coordinator  
Duties: Include modifying audit protocol, coordinating with industrial staff, conducting audit, analyzing audit results, contacting government offices, analyzing audit field reports, developing recommendations, and preparing draft final report.

**Supervising Environmental Impact Assessment Process of a Geothermal Facility**

Location: Dieng, Central Java  
Timeframe: 1996 (4 months)  
Project by: Himpurna California Energy  
Position: Environmental specialist  
Duties: Include providing technical advises, monitoring and supervising EIA process, coordinating different parties involve in the EIA development, revising EIA report.

**Public campaign****Public Campaign on Urban Environment and Sanitation/Solid Waste Stimulant O/M Support to Local Government**

Location: 12 cities in the Provinces of West Java and Banten  
Timeframe: September 2001 – May 2002 (9 months)  
Project by: Asian Development Bank for West Java Urban Development Project  
Position: Campaign Advisor  
Duties: Include providing technical guidance on the design of the Public Campaign, supervising the preparation numerous campaign materials (including audio-visual presentations, leaflets, posters, radio and television public service advertisements, etc), assisting in monitoring reporting, cost control.

**Design Air Pollution Public Awareness Campaign in the City of Surabaya**

Location: Surabaya, East Java  
Timeframe: October 1999 – February 2000 (5 month)  
Project by: The GTZ for the Surabaya Sustainable Urban Transportation System  
Position: Campaign specialist  
Duties: Include designing awareness baseline survey, developing basic campaign strategy, producing general implementation plan, preparing campaign materials, and obtaining supports from various stakeholders.

**Design and Implementation of the SEGAR! Jakartaku Air Pollution Public Awareness Campaign**

Location: Jakarta  
Timeframe: July 1997 – December 1998 (18 months)  
Project by: Swisscontact for the Jakarta Clean Air Project  
Position: Project Coordinator  
Duties: Include designing Public Campaign, pursuing campaign implementing partners, obtaining government supports, preparing numerous campaign materials (including audio-visual presentations, leaflets, posters, radio and television public service advertisements, exhibition panels, etc), coordinating 12 seminars, 4 workshops, 3 training courses for various stakeholders (including automotive experts, teachers, health professionals, journalists, students, government officials, gasoline producers/ distributors, etc). Also, include preparation and supervising implementation of around 30 campaign events.

**Technical  
Publications****Development of Sanitation Indicators Handbook**

Location: Jakarta  
Timeframe: 2010  
Project by: BAPPENAS and the Ministry of Public Works

Position: Team Leader  
Duties: Prepared publication describing 8 (eight) main sanitation indicators that should be used to present the sanitation of an area. The book also introduces a Sanitation Profile Wheel as a simple way to present the indicators in a single graph. It aims to make common people aware on the sanitation condition of their community. Work includes review of ISSDP materials, collecting additional references, interviewing stakeholders, site visits, conducting workshops, developing book concept until final manuscript, and design/layout. The book's title is Menampilkan Profil Sanitasi.

**Development of Water-for-Poor Toolkit**

Location: Jakarta  
Timeframe: 2009  
Project by: The USAID through the Environmental Services Program (ESP)  
Position: Team Leader  
Duties: Developed a 3-part toolkit on improving clean water access to poor communities, i.e. 1) the master-meter approach, 2) micro-credit scheme for water connections, and 3) output-based aid for water connections. The targets are water authorities, banks, and community groups, and facilitators. Work includes collecting additional references, interviews and site visits, discussion, exploring the target readers, writing-up the contents, developing graphics, collecting photographs, designing layout, testing the drafts, and producing the toolkit.

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**Development of Guidebook on Strategic Planning for Sanitation.**

Location: Jakarta  
Timeframe: 2009  
Project by: The Water Sanitation Program – East Asia & Pacific (WSP-EAP)  
Position: Team Leader  
Duties: Prepared publication for local governments on the principles of strategic planning to develop city-wide sanitation strategies. Work involves reviewing the ISSDP materials, collecting additional references, interviewing stakeholders, conducting focus group discussion, developing book concept until final manuscript, and design/layout. An English version of the publication was also produced. Title of the guidebook is Bergerak Bersama dengan Strategi Sanitasi Kota. The english version's title is Marching Together With A Citywide Sanitation Strategy.

**Development of Resource Book on Sanitation in Poor Urban Communities.**

Location: Jakarta  
Timeframe: 2007  
Project by: The Water Sanitation Program – East Asia & Pacific (WSP-EAP)  
Position: Team Leader



Duties: Based on a previous study commissioned by the Water and Sanitation Program (WSP), produced a publication which provides general guidance on sanitation in poor urban communities. Work included development of key messages, preparing manuscript and diagrams, design and layout. Title of the book is Kiat Kerja Sanitasi di Kawasan Kumuh.

#### **Development of Various Sanitation Related Publications**

Location: Jakarta  
 Timeframe: 2007 - 2008  
 Project by: BAPPENAS and the Ministry of Public Works  
 Position: Team Leader  
 Duties: For different purposes, Qipra has produced a number of awareness publications, e.g.

- **2008: Bersama Mencipta Kota Sen-Sanitasi-Onal**; A handbook describing the importance of sanitation strategic planning. It targets the city-level government.
- **2008: Bisnis Sanitasi: 100 Juta Konsumen Menunggu Anda**; A book describing business profiles and opportunities in the sanitation sector. It targets the business community.
- **2008: Menurut Mereka Anda Masih Perlu Kerja Keras**; A book expressing comments and hopes of stakeholder representatives on the sanitation sector development activate in Indonesia.
- **2007: Kalau Sulit Dilawan, Jadikan Kawan**; A book describing solid waste management issues in urban areas and
- **2008: Saatnya Masyarakat Berkawan**; A book describing briefly ways to a community-based solid waste management system.

Each work includes reviewing materials, site surveys, developing concept for reaching target-audience, conducted interviews and developed text and graphics for the publications, collecting pictures, and designing the layout.

#### **Development of Advocacy Document on the State of Sanitation in Indonesia**

Location: Jakarta  
 Timeframe: 2006  
 Project by: The Water Sanitation Program – East Asia & Pacific (WSP-EAP)  
 Position: Team Leader  
 Duties: Based on previous studies commissioned by the Water and Sanitation Program (WSP), produced a publication on the state of sanitation in Indonesia to improve awareness among key stakeholders in the regions. Work includes developing a communications plan (key messages), supplementary research, preparing manuscript and diagrams, collecting photographs, design and layout. Publication was issued under the Indonesian Sanitation Sector Development Program (ISSDP), under the auspices of BAPPENAS. Title of the guidebook's is Ini Bukan Urusan Pribadi Lagi.

#### **Public Consultation for EIA of Banyu Urip Oilfield Development Plan**

Location: Surabaya, East Java  
 Timeframe: May – October 2001  
 Project by: Mobil Cepu Limited (Subsidiary of Exxon Mobil Indonesia)  
 Position: Environmental Specialist  
 Duties: Providing inputs and technical guidance in developing basic strategy for Public Consultation process to support the EIA scoping process, developed information materials (presentation slides, booklet, and posters) to be presented to the communities, provided inputs for implementation of the Public Consultation, and provided guidance on the completion of public consultation report.

#### **Special Publication of Air Minum Magazine**

Location: Jakarta  
 Timeframe: September - October 2001 (2 months)

Project by: Indonesian Association of Water Enterprises (PERPAMSI)  
Position: Main Editor  
Duties: Include coordinating with Perpamsi, providing inputs and technical guidance in articles, supervising layouting process, and quality control.

**Seminar on Environmental Communication to Foster Good Relationship with Neighboring Communities**

Location: Jakarta  
Timeframe: December 2000 – March 2001 (3 months)  
Project by: Qipra Galang Kualita  
Position: Project supervisor  
Duties: Include designing seminar topics and format, coordinating speakers, obtaining sponsors, supervising seminar commencement, and budget control.

**Publishing DAUR bi-monthly magazine**

Location: Jakarta  
Timeframe: August 2000 – present  
Project by: Qipra Galang Kualita  
Position: Co Leader (Main Editor)  
Duties: Include creating magazine concept, obtaining permit, building management, providing inputs and guidance for editorial, supervising layouting and printing process, obtaining sponsors and subscribers, writing articles, and budget control.