



March 2008

# Development of a Water Quality Management System for the West Tarum Canal of the Citarum River Basin

This Pilot and Demonstration Activities (PDA) helped develop a database and system to support better water quality management through integrated water resources management.



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## Snapshot

Project site	West Java, Indonesia
Cost	US\$ 67,000
Status	Completed
Approval date	October 2006
Completion date	March 2008
Category	Basin
ADB officer	Chris Morris
Partner	Korea Water Resources Corporation (K-Water)

## Report card

Completed in October 2007, this PDA

- Developed a comprehensive water quality monitoring network for the West Tarum Canal of the Citarum River Basin
- Provided various programs to enhance the capacity of PJT II, both for staff and management level
- Successfully conducted water quality monitoring and institutional capacity building and introduced better resources management practices
- Held regular meetings with main stakeholders to demonstrate the impact of knowledge and information
- Promote public awareness on water quality management
- Establish Best Management Practices for the sustainable management of environmental and water resources

Read the [final report](#).

## Description

Rapid urbanization and industrialization in the Indonesian capital of Jakarta has led to increasing pollution levels and deteriorating water quality in the Citarum River Basin. Low water quality has also impacted on the operations of hydropower

stations.

The Citarum River Basin, composed of the West and East Tarum Canals, and other dams and reservoirs, is a major source of water supply to West Java's metropolitan areas. About 70% of Jakarta's drinking water supply comes from the Djuanda reservoir, transported through the West Tarum Canal to water treatment plants in the city. Originally an irrigation canal for rice production, the canal serves industrial users, contribution to the canal's pollution.

This PDA piloted the establishment of a water quality monitoring and management system for the West Tarum Canal, as part of the Government of Indonesia's overall plan of addressing the sustainable water resources development and management of the Citarum River Basin.

## Expected outcomes

- A comprehensive water quality monitoring network appropriate for the West Tarum area
- Water quality database based on adequate monitoring activities, including identification of suspected sources of pollution
- A sound water quality modeling system for west Tarum Canal, highlighting the innovative aspects of the model structure
- Increased capacity of Jasa Tirta II Public Corporation (PJT I)—the river basin organization in charge of managing the Citarum River Basin—in water quality monitoring and modeling, and increased awareness of other stakeholders

## Related

- [More on water and sanitation](#)
- [Indonesia and ADB](#)
- [Pilot and Demonstration Activities](#)
- [Final Report \(March 2008\)](#)
- [Inception Report \(March 2007\)](#)
- [Proposal \(October 2006\)](#)

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