Watershed Management in NPC: An Overview on Managing the Caliraya-Lumot Watershed

A presentation to the participants of the "Second Thematic Workshop on Water Rights and Allocation"

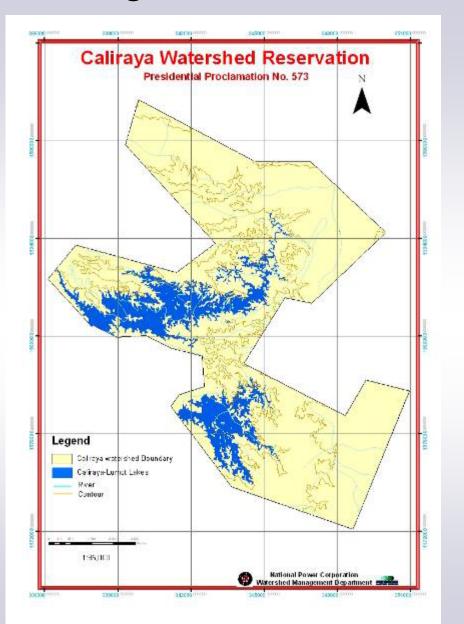
> KPSPP. Kalayaan, Laguna June 7, 2006





Harnessing Power from the Watersheds

Caliraya-Lumot Watershed Reservation



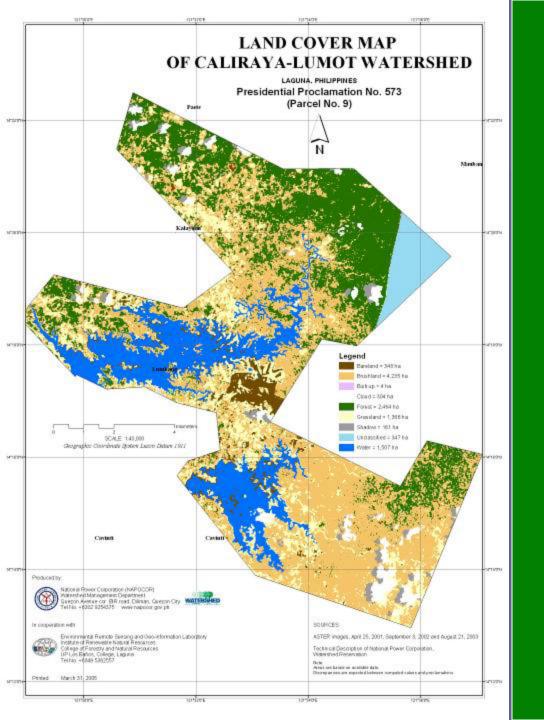


• Pres. Proc. No. 573

- Covers parcels of land in the Municipalities of Lumban, Kalayaan and Cavinti in Laguna comprising of 10 brgys
- Total area of 10,770 has.
- Supports KPSPP and CHEP (700 MW)
- Ecotourism destination
- Source of livelihood

Premises and Legal Basis

- Pres. Proc. No. 573 (1969): Established the Caliraya-Lumot River Forest Reserve and withdrew the same from sale and settlement and set aside as permanent forest reserve.
- Republic Act No. 6395 Sec. 2n (1971): Authorizes NPC to exercise complete jurisdiction and control over watersheds surrounding the reservoirs of power plants and power projects.
- Pres. Proc. No. 1579 (1976): Excluded from the operation of Proc. No 573 an aggregate area of 1,351 hectares within Caliraya-Lumot Forest Reserve and declaring the same open for disposition for agricultural purposes under the Public Land Act and subject to R.A. 1273 and P.D. 705.
- Executive Order No. 224 (1987): Vested NPC the complete jurisdiction, control and regulation over watershed areas and reservations supporting power generating plants and properties.



Completely devoid of old-growth forest

Caters to the only pumped-storage power plants in the country

Most pressureladen watershed in terms of landuse conversion and development

Concerns in CLWR

Patches of open and eroded areas Illegal activities - Charcoal-making – Kaingin - Carabao Logging Illegal occupancy and development activities

WMD Interventions

Watershed Rehabilitation Program

- Reforestation projects
- Regular tree planting activities with various groups
- Arrangement with private sectors (MOA with Couples for Christ)
- Watershed Protection and Conservation Program
 - Regular patrolling and enforcement of forestry laws
 - Community-Based Forest Protection (Bantay Watershed Task Force)
 - Active participation in MMT
- Various Institutional Arrangement
 - Agreement with DENR (Issuance of NPC clearance)
 - MOA with LGU's and other Government Agencies
 - Covenant with CLWR stakeholders (CLWEC)
- Awareness and Livelihood Program

Watershed Management Programs

COMPONENT	STRATEGIES	PARTNERS OF NPC
Watershed Rehabilitation	 Reforestation Agroforestry Greenbelt establishment 	DENR, LGUs, Resort Owners, NGOs
Watershed Protection	 Enforcement of Forest Laws Multi-sectoral Protection Council Occupancy Mgt Information, Education, Communication 	Military, LGUs, Resort Owners, DENR
Lake Use and Safety (Transport, Recreation, Economic opportunities)	 Regulation of lake use Creation of Lake Patrol Group Formation of sectoral organizations 	Resort Owners, DENR, Military, LGUs, Resource users

Watershed Management Programs

COMPONENT	STRATEGIES	PARTNERS OF NPC
Environmental Enhancement	Water yield quality monitoring	Resort Owners, LGUs, CBKPCL
	Compliance to environmental guidelines on waste mgt	
Water Management	Hydromet station establishment	CBKPCL, NWRB
	Ground water use analysis	
	Water use regulation	
Land Use Management	Updating and implementation of Master Plan and Land Use Zones	Resort Owners, LGUs, Academe, Research institutions, NGOs
	Conduct watershed capability assessment and researches	
Community Development	Creation of livelihood opportunities	LGUs, LGAs, Resort owners, CBKPCL
	Capacity building and skills enhancement	