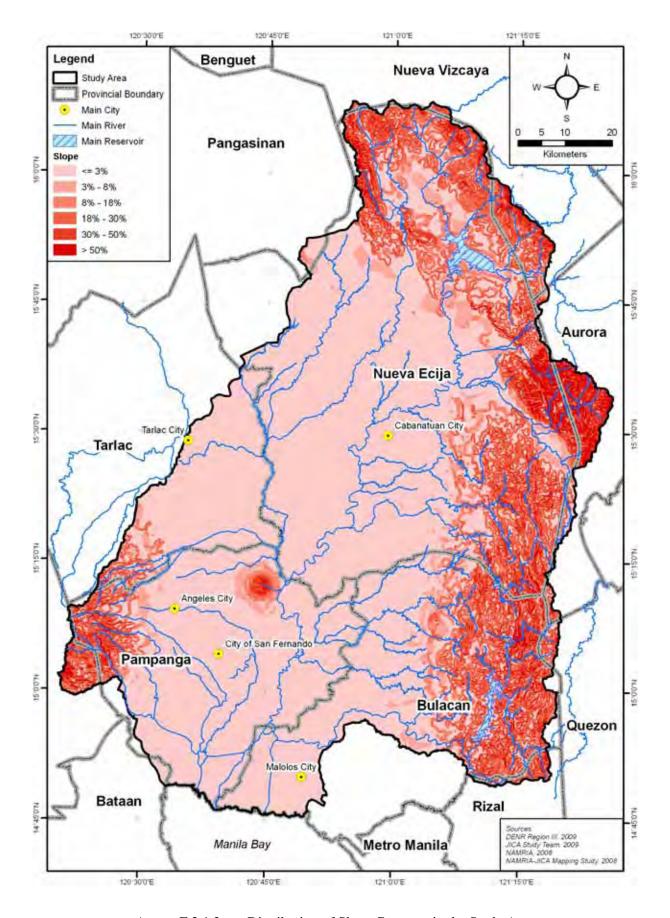
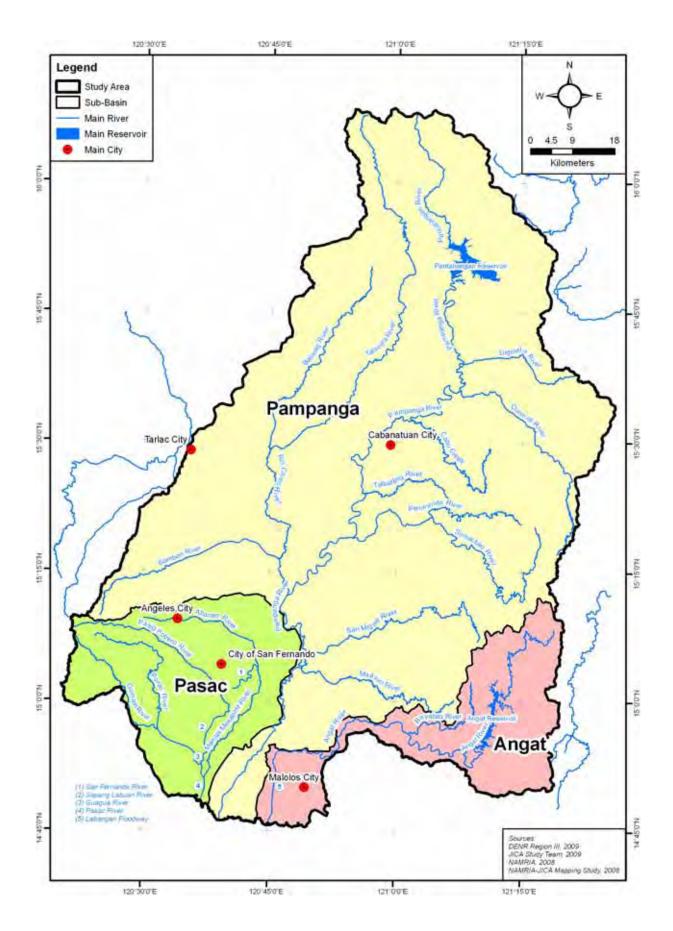


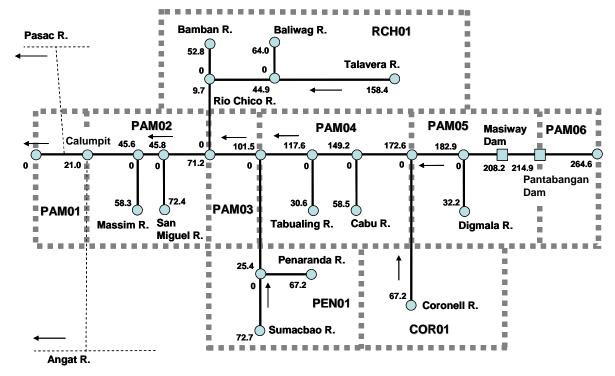
Annex-F 2.1.1 Distribution of Elevation Zones in the Study Area



Annex-F 2.1.2 Distribution of Slope Category in the Study Area



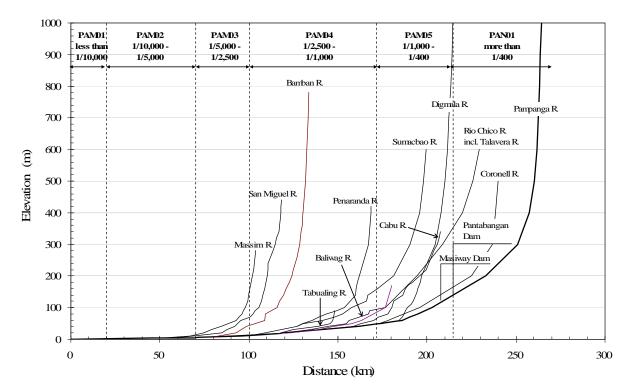
Annex-F 2.2.1 Principal Sub-basins in the Study Area



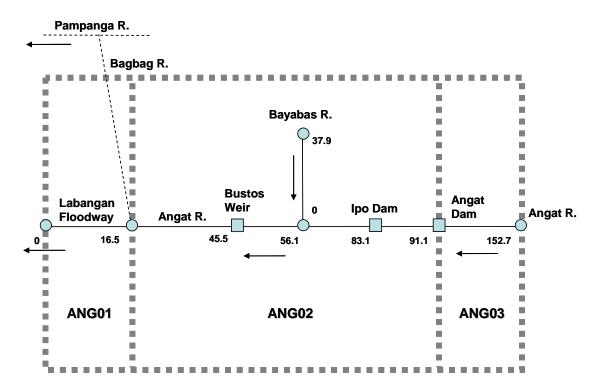
Note: Number shows distance in km from downstream end of a river.

Source: JICA Study Team

Annex-F 2.2.2 Schematic River System in Pampanga Main River System



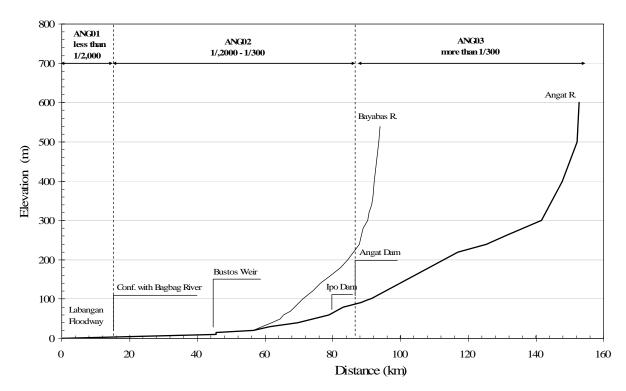
Annex-F 2.2.3 Longitudinal Profile of the Main Rivers in Pampanga Main River System



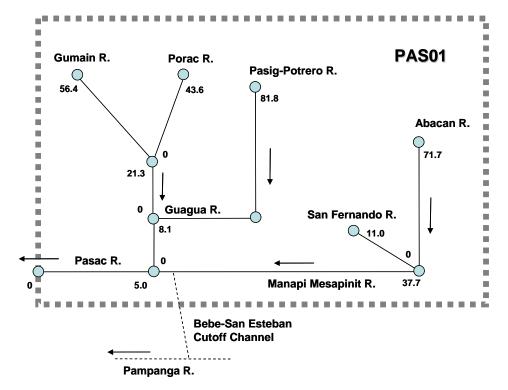
Note: Number shows distance in km from downstream end of a river.

Source: JICA Study Team

Annex-F 2.2.4 Schematic River System in Angat River System



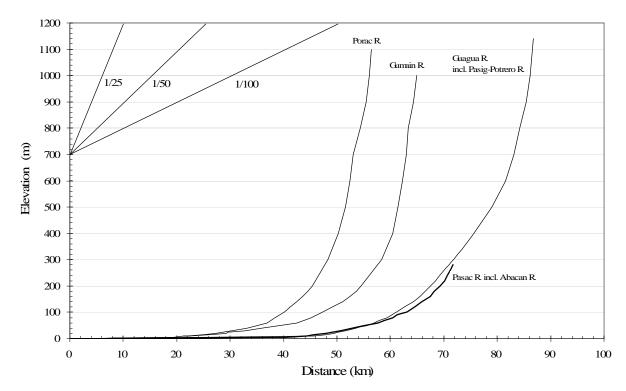
Annex-F 2.2.5 Longitudinal Profile of the Main Rivers in Angat River System



Note: Number shows distance in km from downstream end of a river.

Source: JICA Study Team

Annex-F 2.2.6 Schematic River System in Pasac River System



Annex-F 2.2.7 Longitudinal Profile of the Main Rivers in Pasac River System

121 00 E

121 300 E

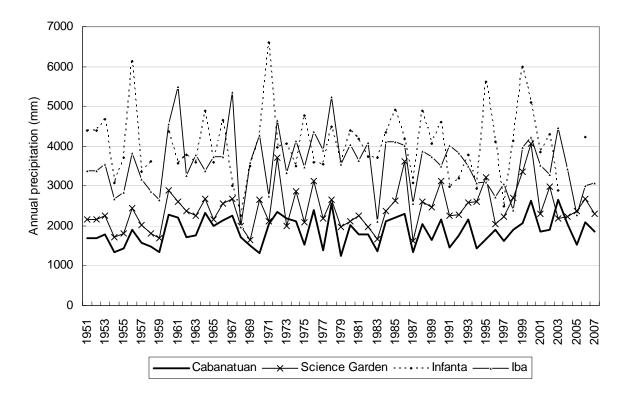
122 00 E

122 300 E

120°30'0'E

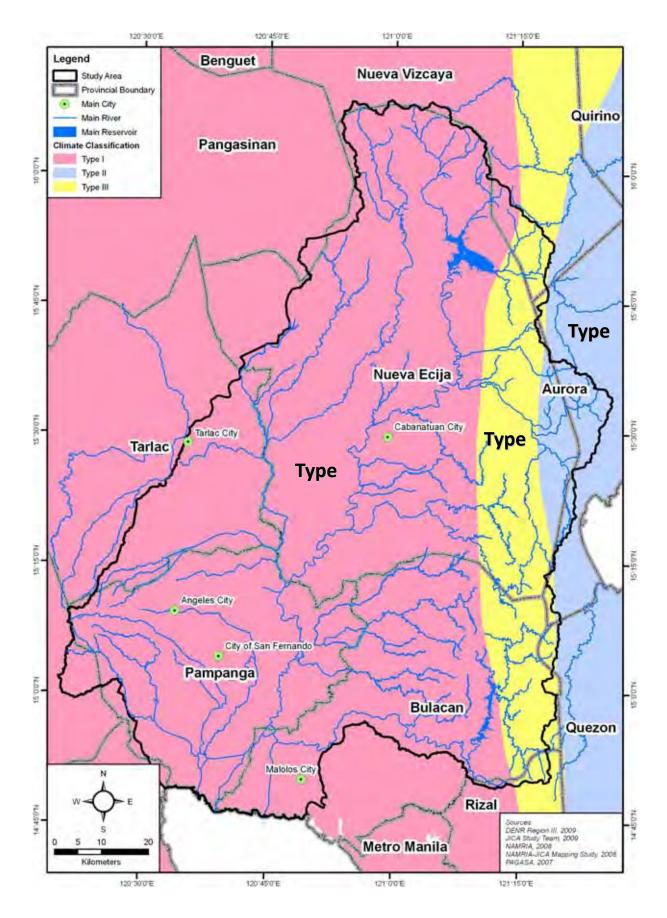
119°30'0'E

120'0'0'E

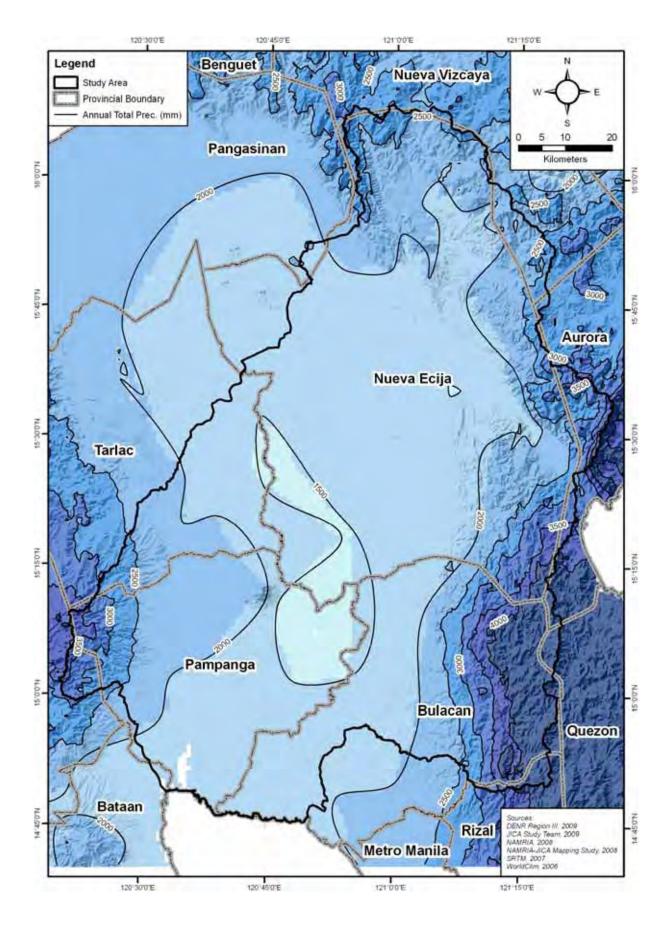


Source: JICA Study Team based on PAGASA data

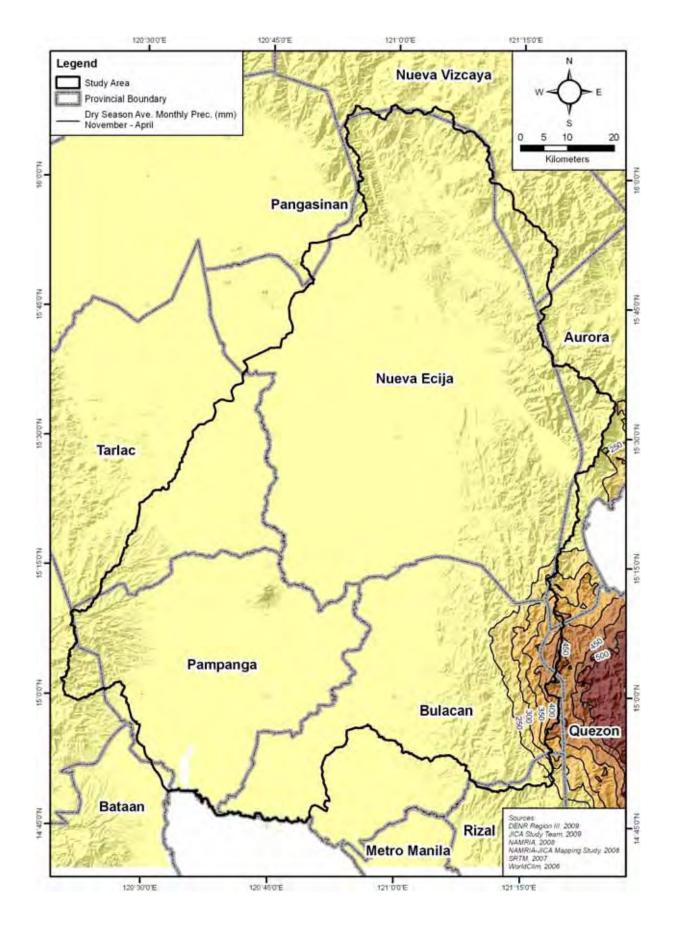
Annex-F 2.3.2 Change in Annual Total Precipitation at Key Stations



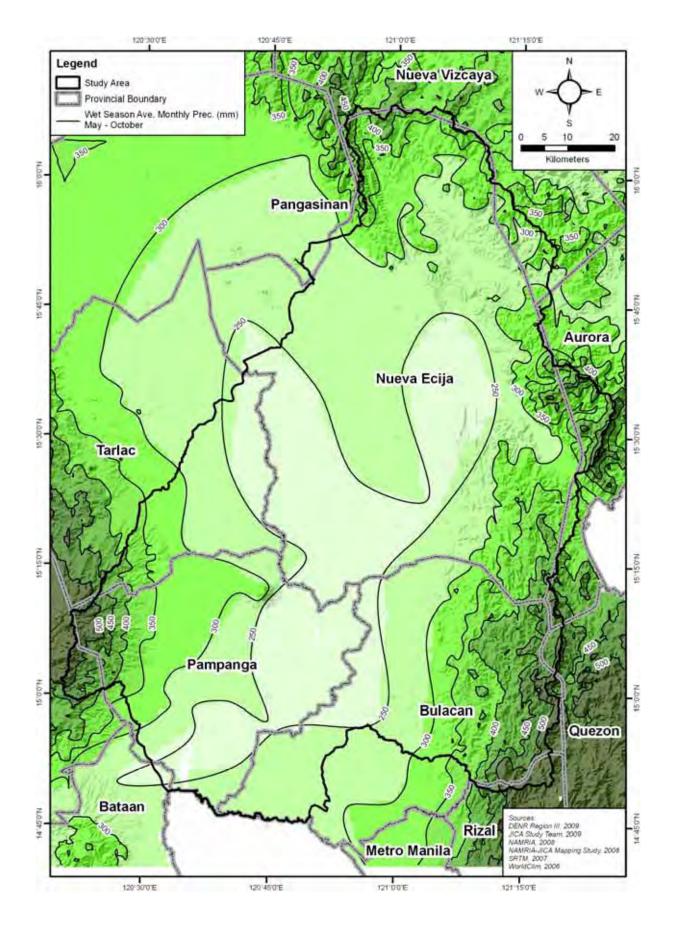
Annex-F 2.3.3 Climate Zones



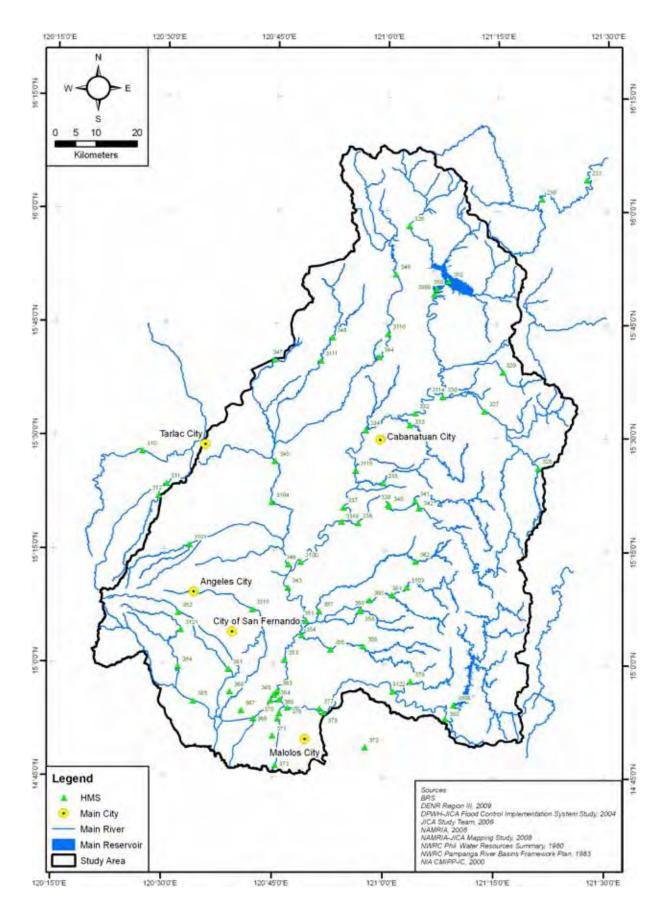
Annex-F 2.3.4 Spatial Distribution of Annual Total Precipitation



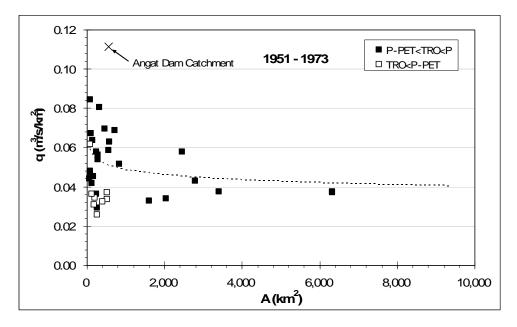
Annex-F 2.3.5 Spatial Distribution of Precipitation in Dry Season

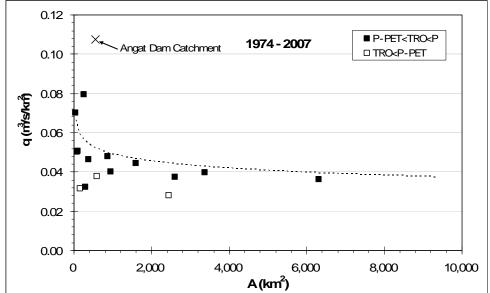


Annex-F 2.3.6 Spatial Distribution of Precipitation in Wet Season

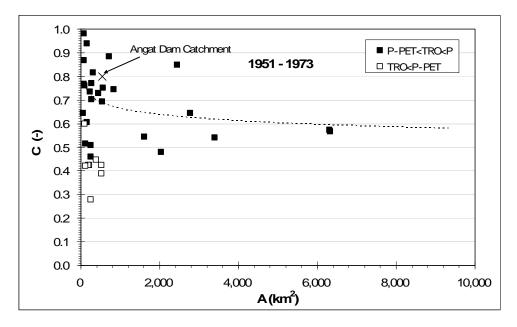


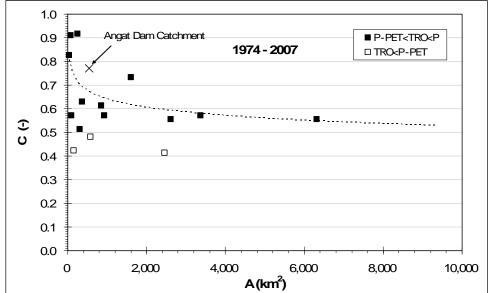
Annex-F 2.4.1 Location of Hydrometric Stations



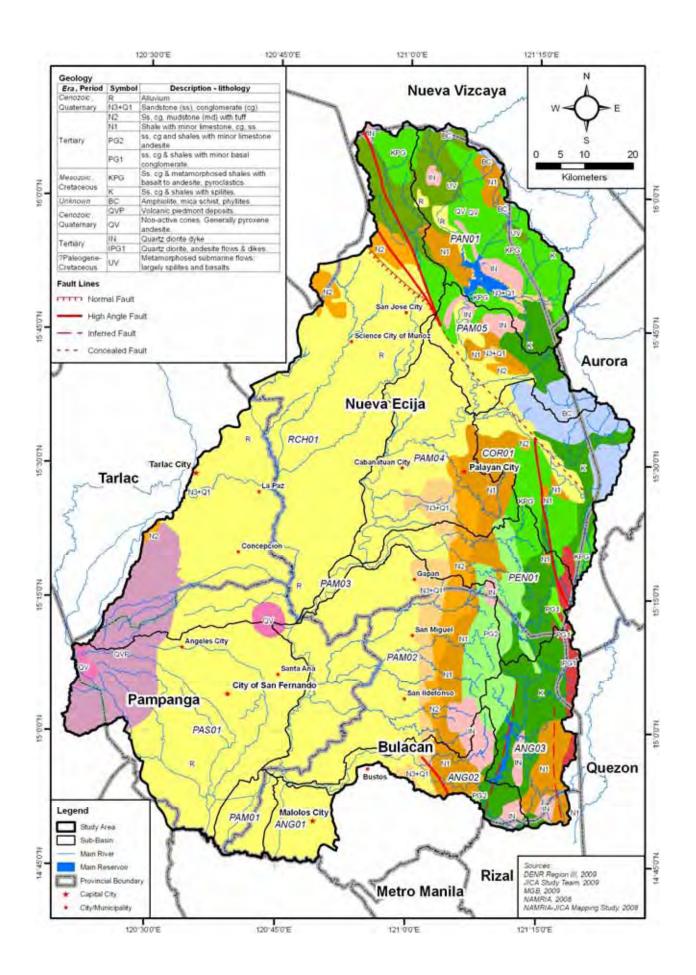


Annex-F 2.4.2 Specific Discharge

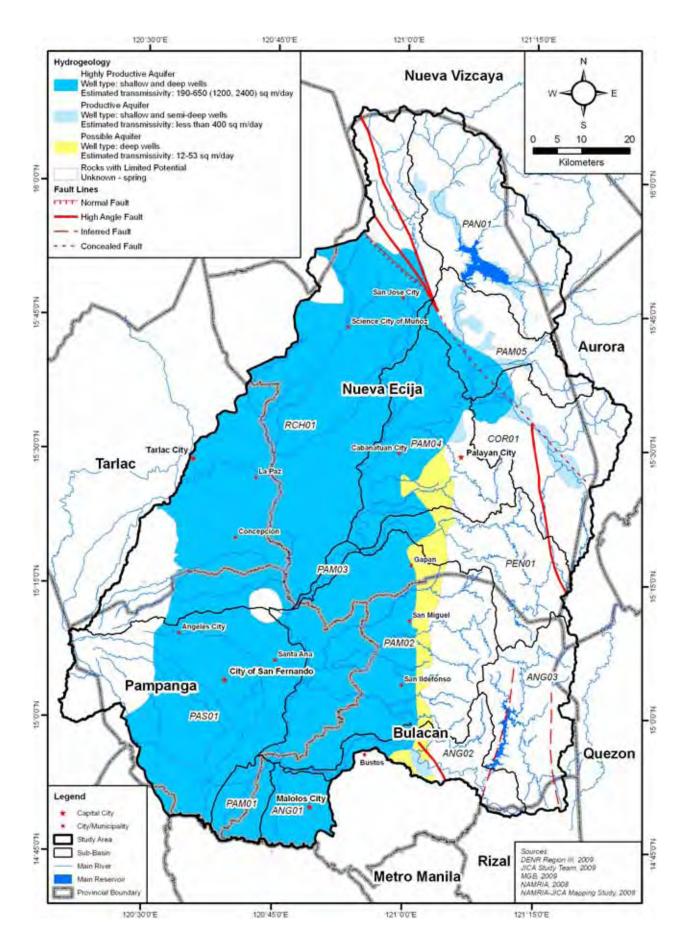




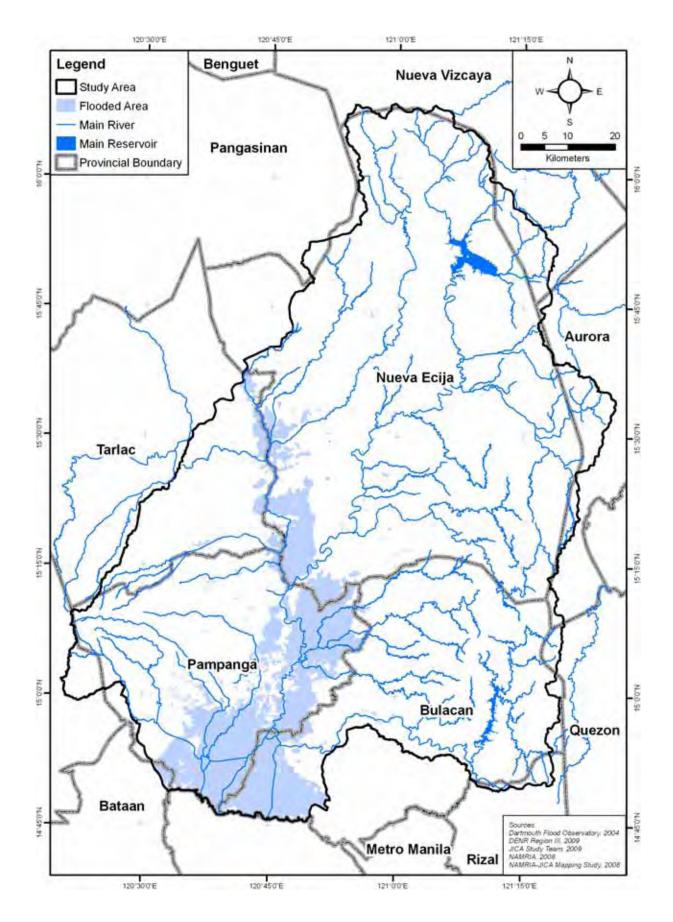
Annex-F 2.4.3 Runoff Rate



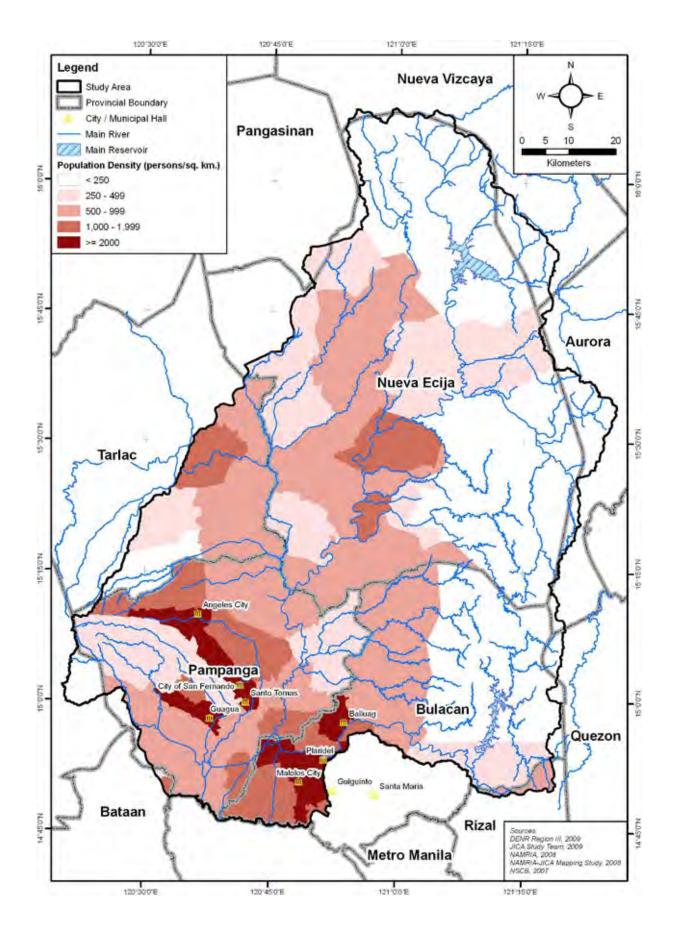
Annex-F 2.5.1 Geological Map



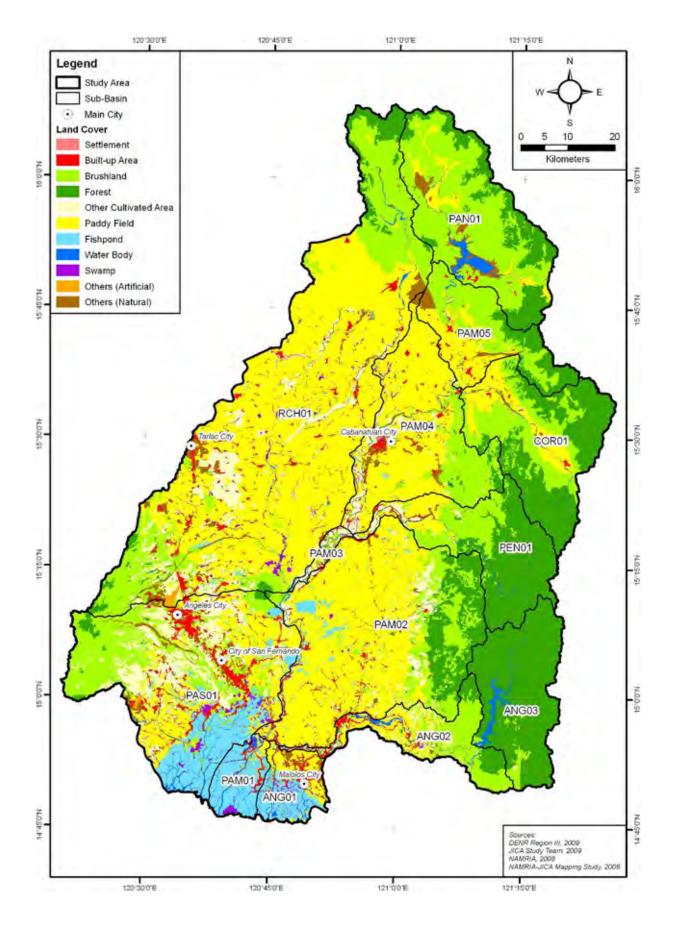
Annex-F 2.6.1 Hydrogeology Map



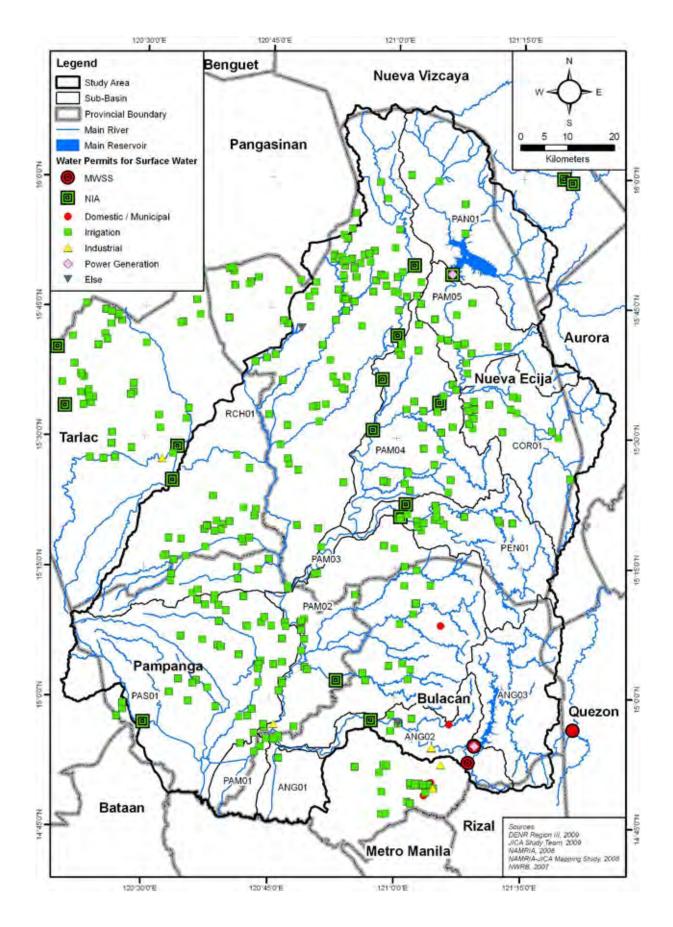
Annex-F 2.10.1 Flood Area in Typhoon Marce, August 2004



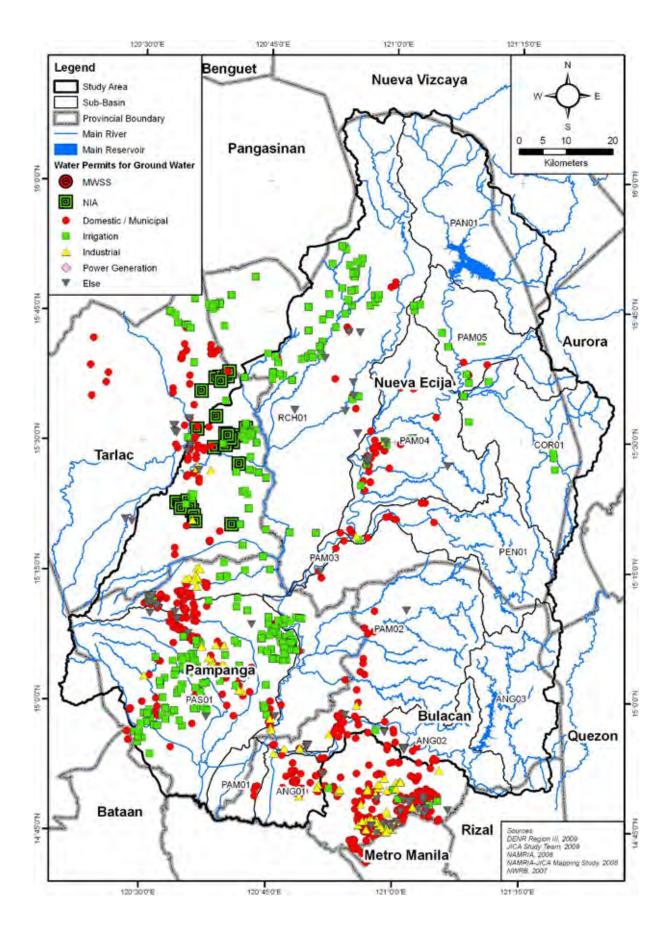
Annex-F 3.1.1 Population Density of Each of Municipalities in the Study Area



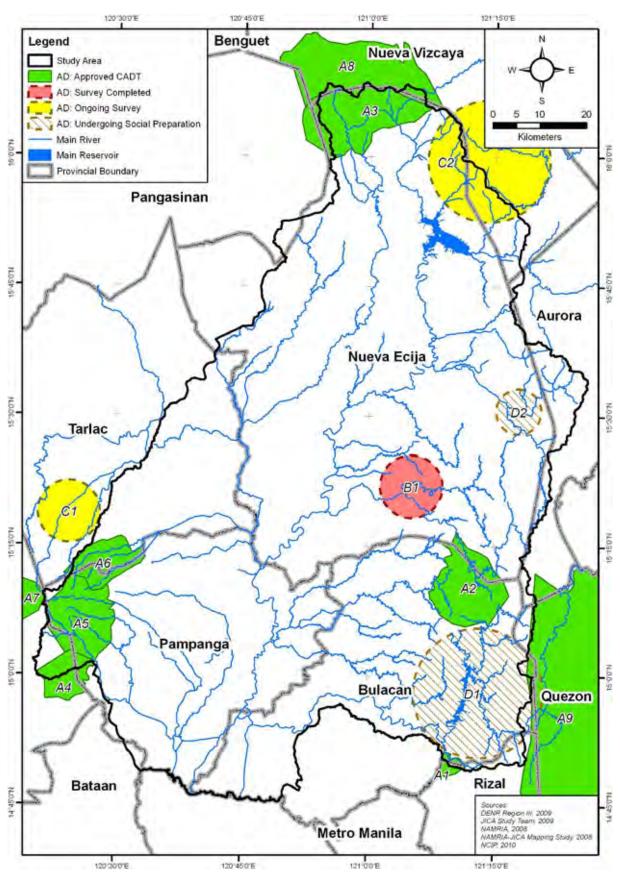
Annex-F 3.3.1 Land Cover in the Study Area



Annex-F 3.4.1 Location of Water Permits for Surface Water

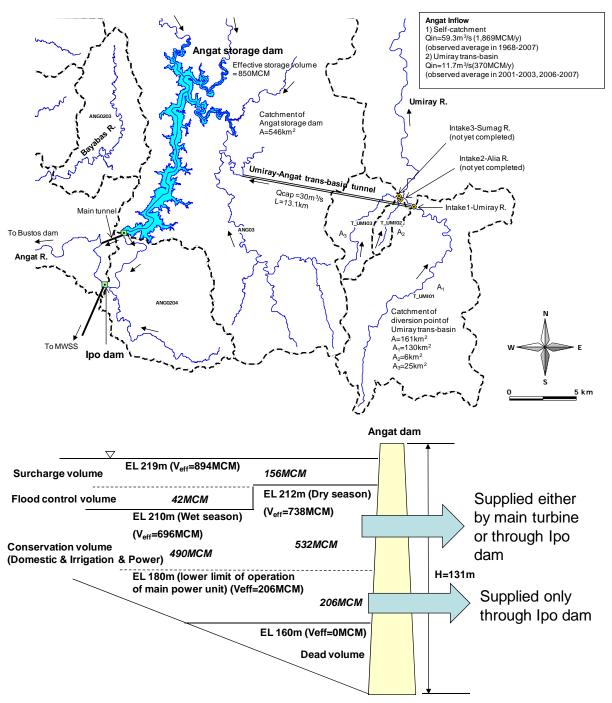


Annex-F 3.4.2 Location of Water Permits for Groundwater

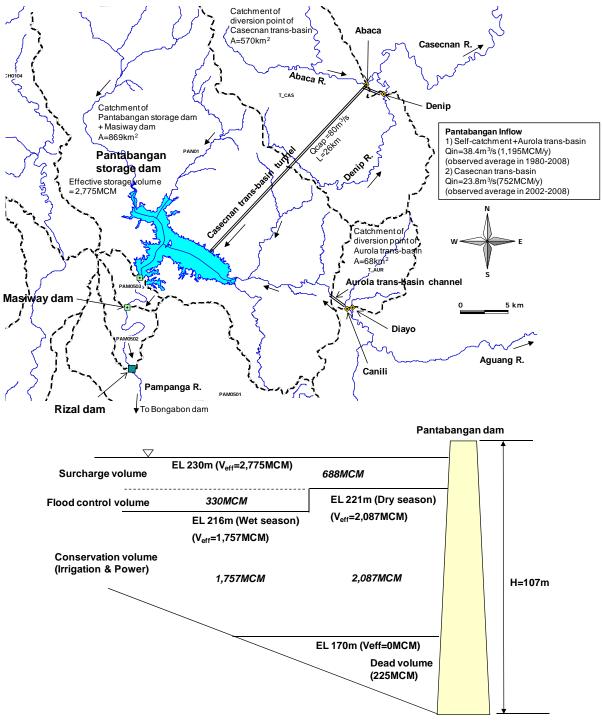


Annex-F 3.6.1 Status of AD/AL (Ancestral Land) Delineation and Titling in and around the Study

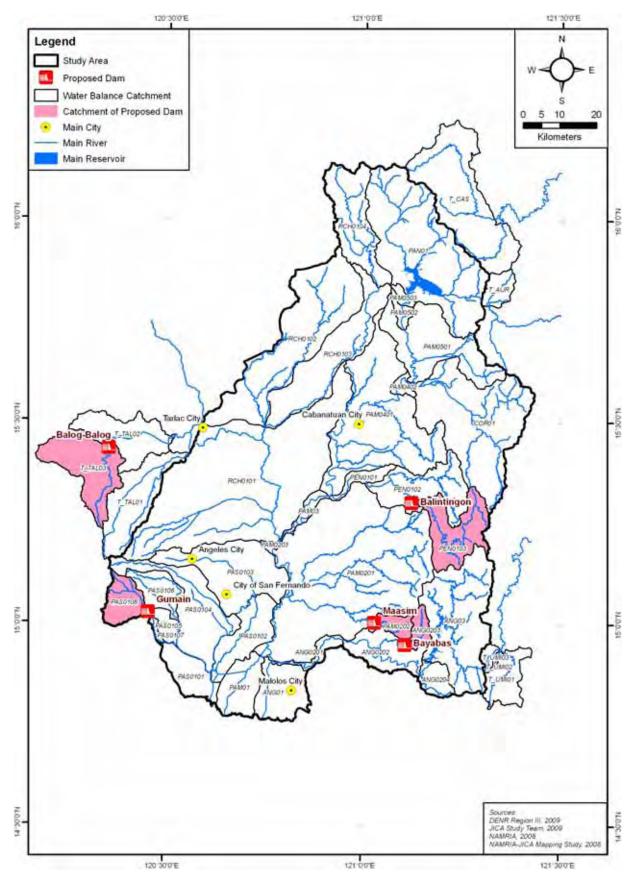
Area as of March 9, 2010



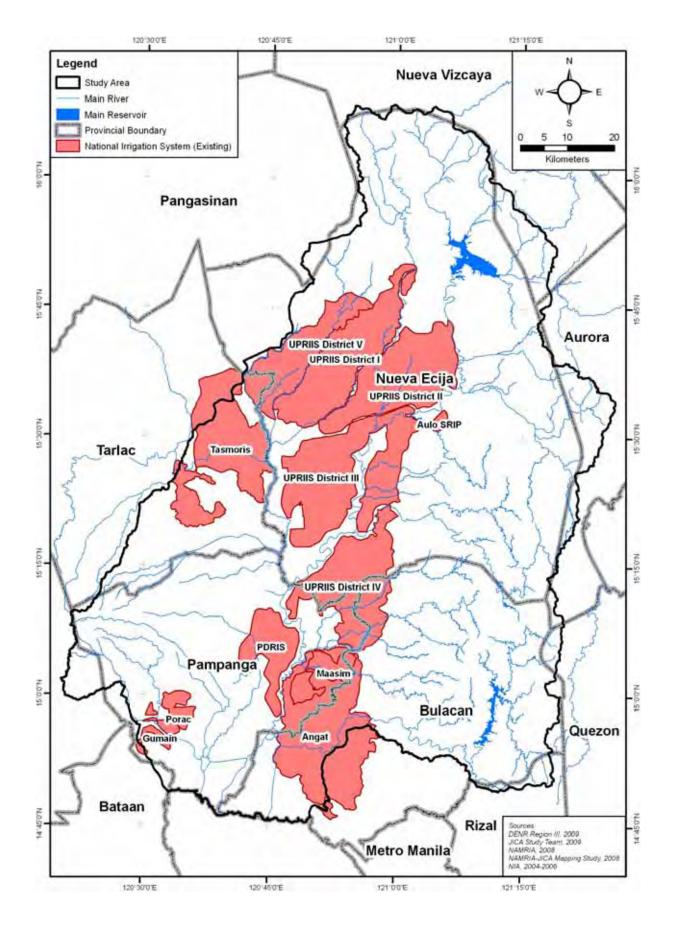
Annex-F 4.1.1 Location and Dimension of Angat Storage Dam



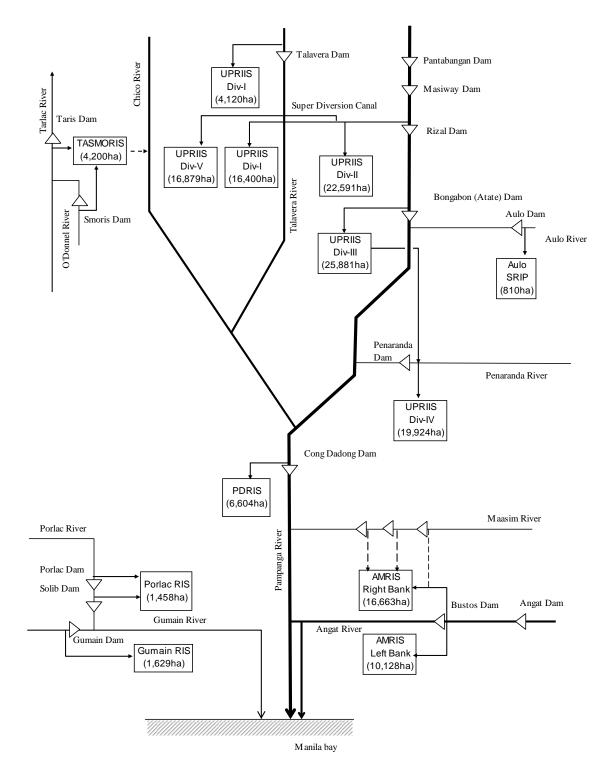
Annex-F 4.1.2 Location and Dimension of Pantabangan Storage Dam



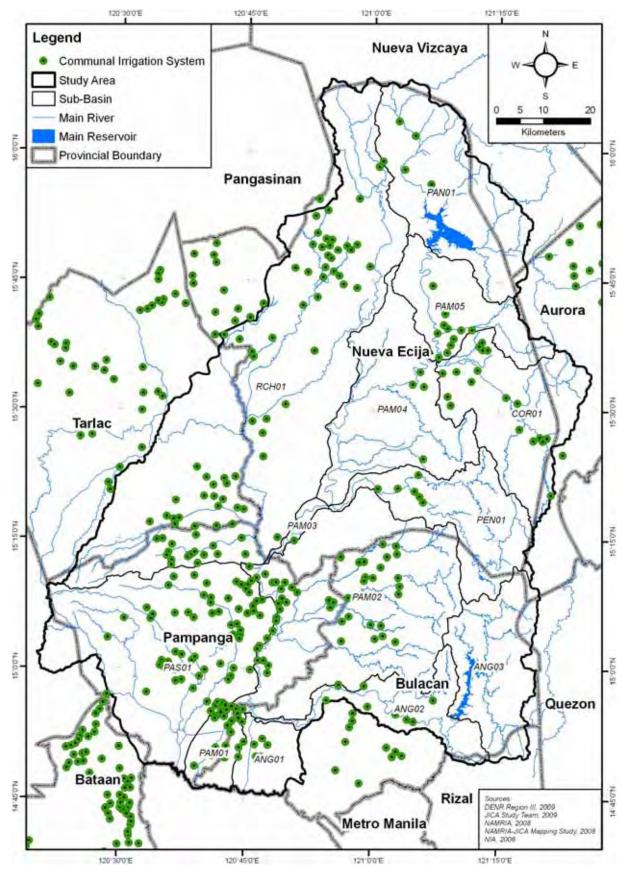
Annex-F 4.1.3 Location of Proposed Large Storage Dam Sites



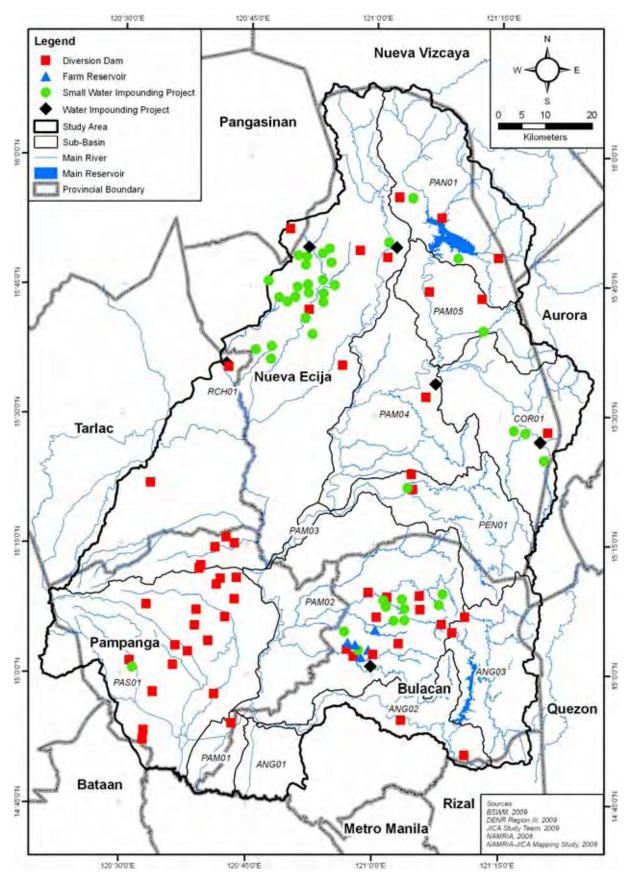
Annex-F 4.2.1 Location Map of Existing NIS



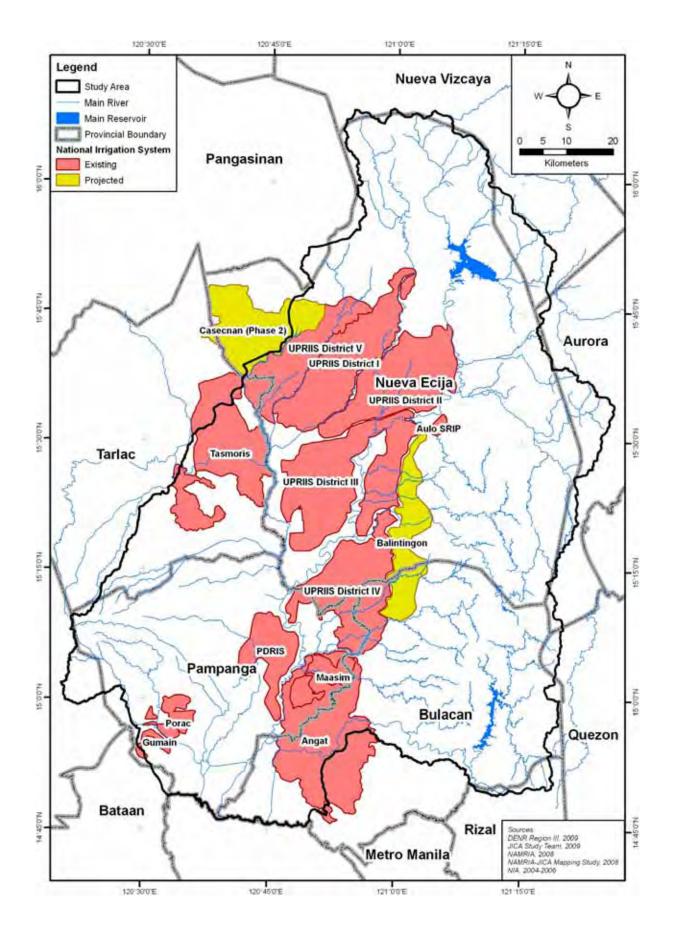
Annex-F 4.2.2 Schematic Flow Diagram of Existing NIS



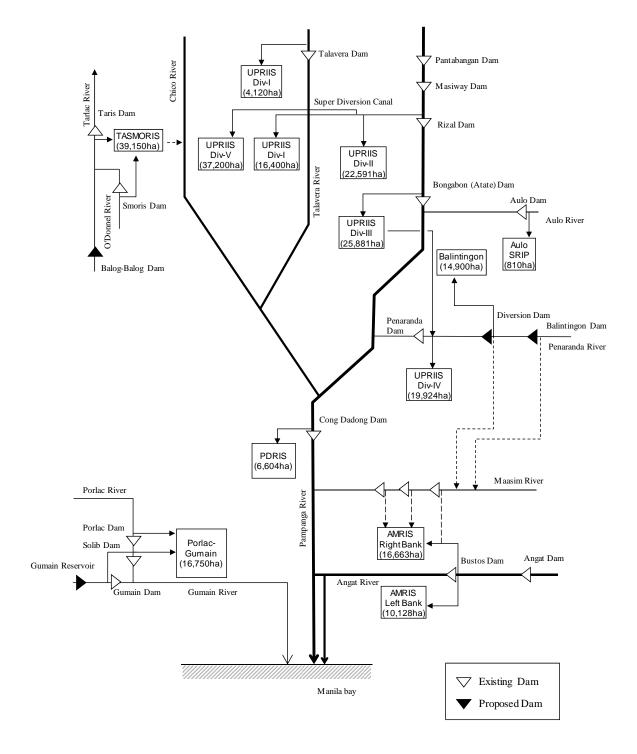
Annex-F 4.2.3 Location Map of CIS



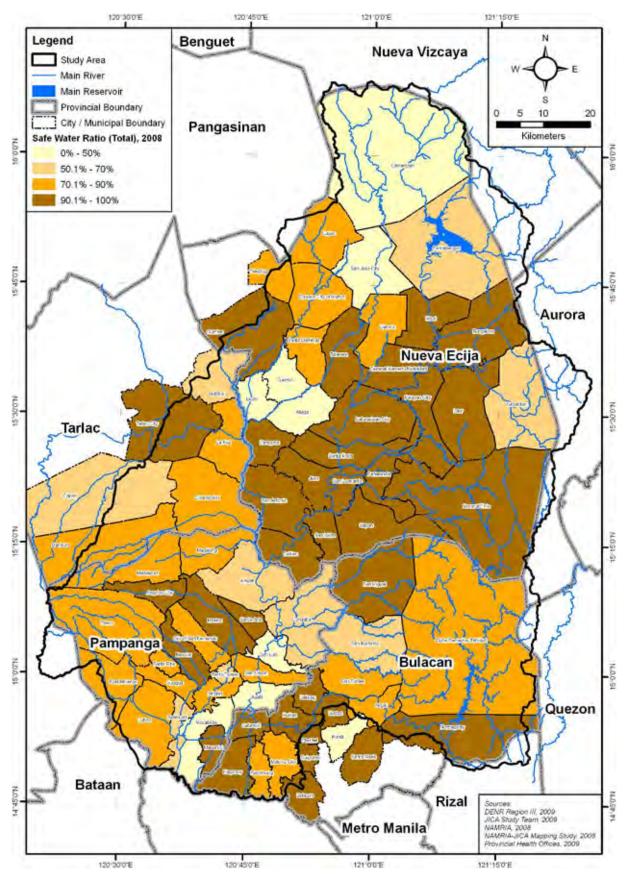
Annex-F 4.2.4 Location Map of Small Scale Irrigations under BSWM



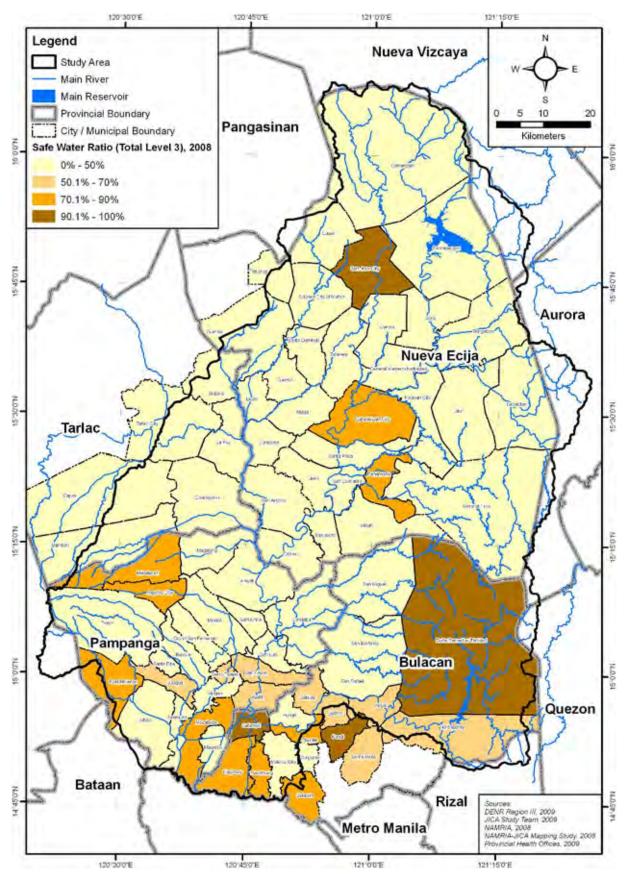
Annex-F 4.2.5 Location Map of Projected NIS



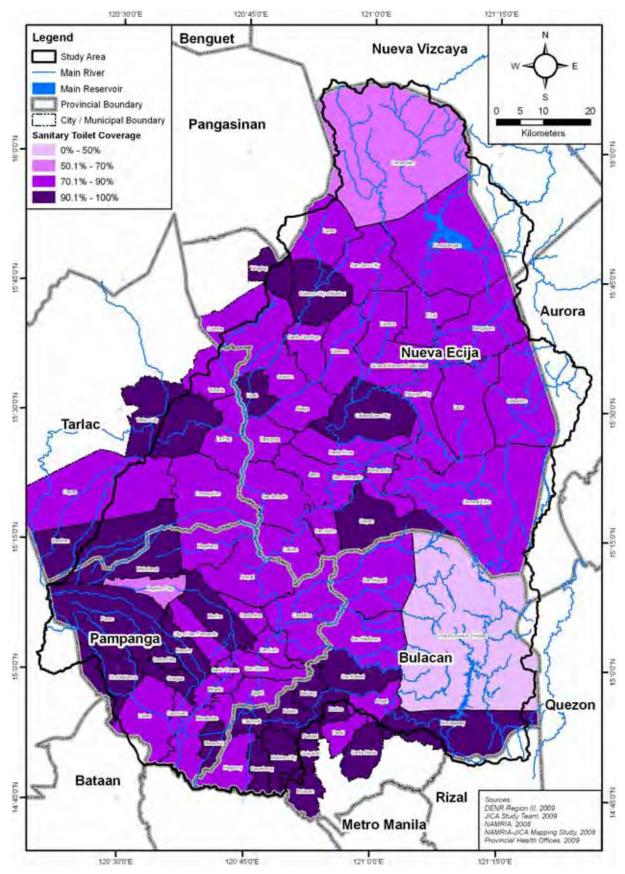
Annex-F 4.2.6 Schematic Flow Diagram of Projected NIS



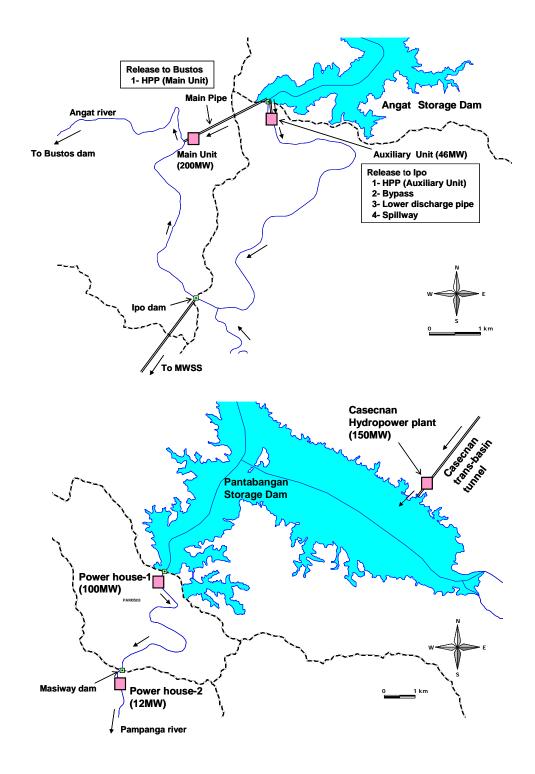
Annex-F 4.3.1 Present Coverage of Water Supply Facilities for Access to Safe Drinking Water



Annex-F 4.3.2 Present Coverage of Level 3 Water Supply Facilities with Safe Water Access

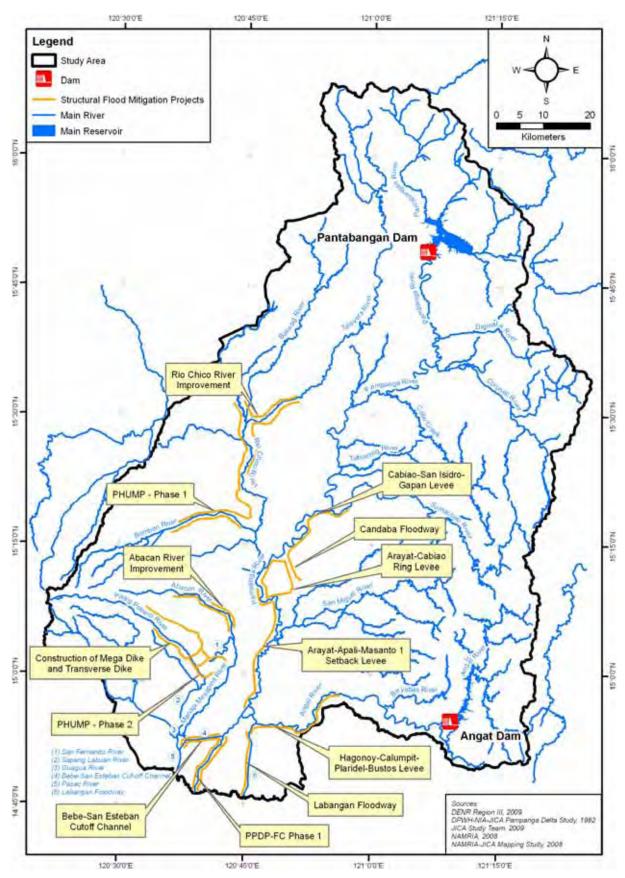


Annex-F 4.3.3 Present Coverage of Sanitary Toilet

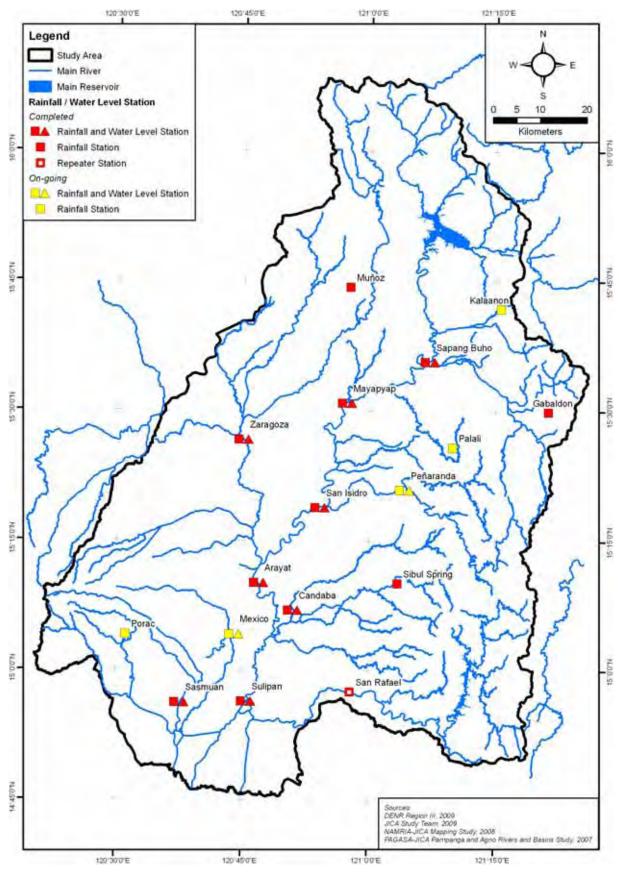


Source: JICA Study Team

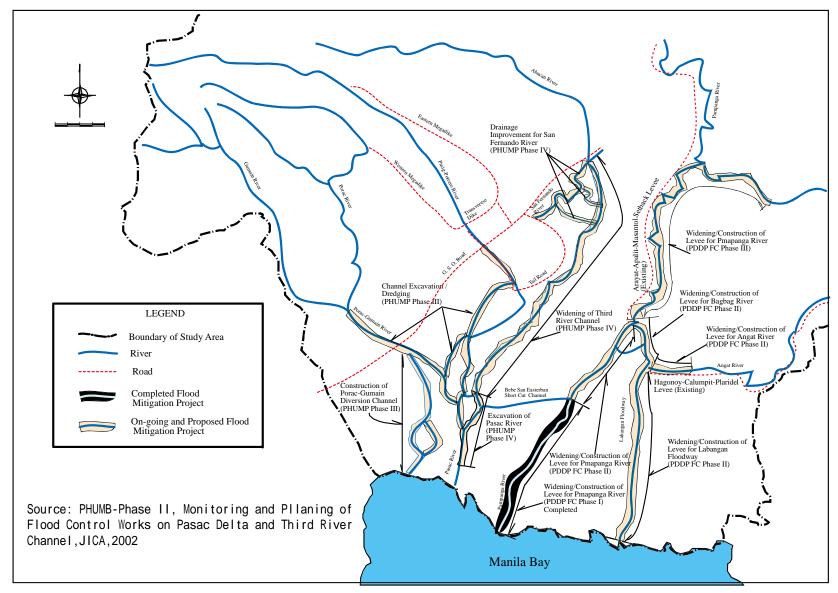
Annex-F 4.4.1 Existing Hydropower Plants in the Study Area



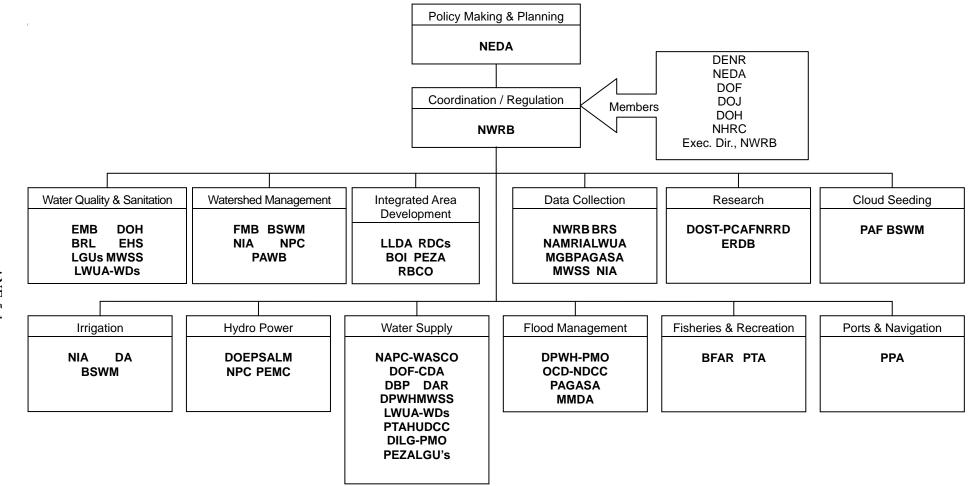
Annex-F 4.5.1 Completed Major Flood and Sediment Disaster Prevention Works



Annex-F 4.5.2 Hydrological Gauging and Repeater Stations for Completed and On-going Flood Forecasting and Warning System in Pampanga River Basin

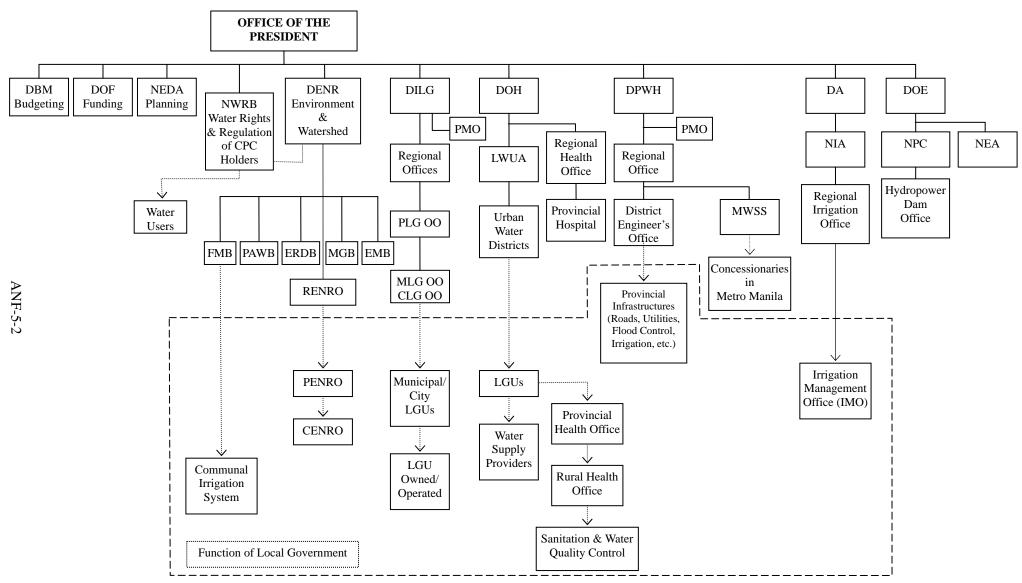


Annex-F 4.5.3 On-going and Proposed Structural Flood Mitigation Works in Pampanga River Basin

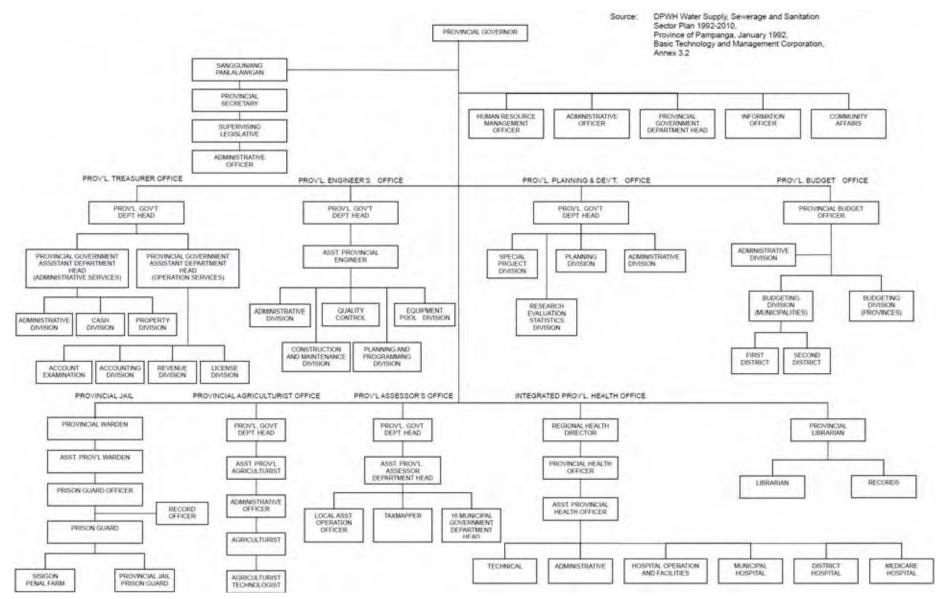


Source: Philippine Water Supply Sector Road Map, p.19, modified by JICA study

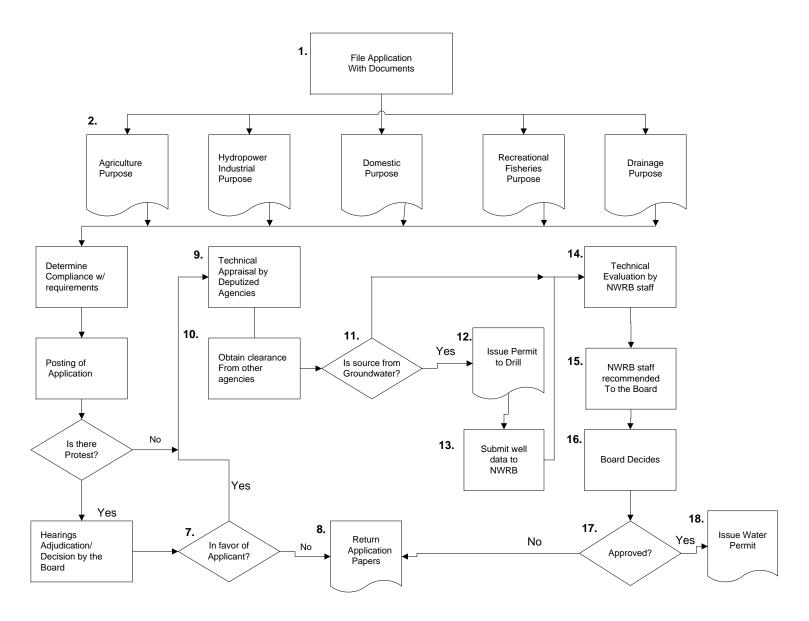
Annex-F 5.2.1 Functional Chart of Water Related Agencies in the Philippines



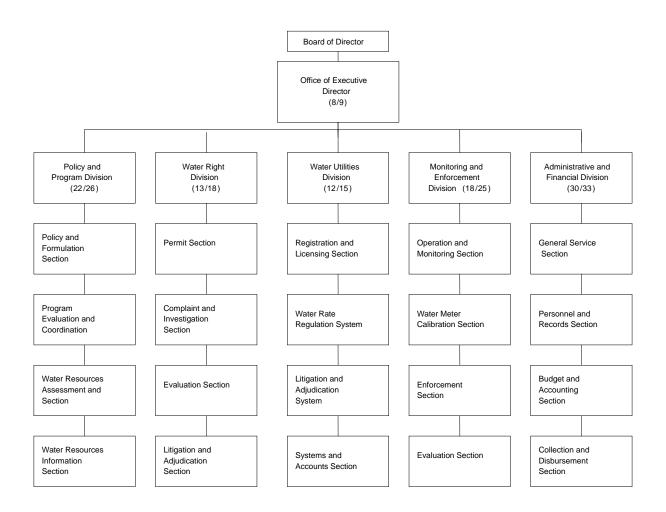
Annex-F 5.2.2 Functional Relationship among Central Government Agencies and Local Governments Source; JICA Study Team



Annex-F 5.2.3 Organizational Chart of Province of Pampanga



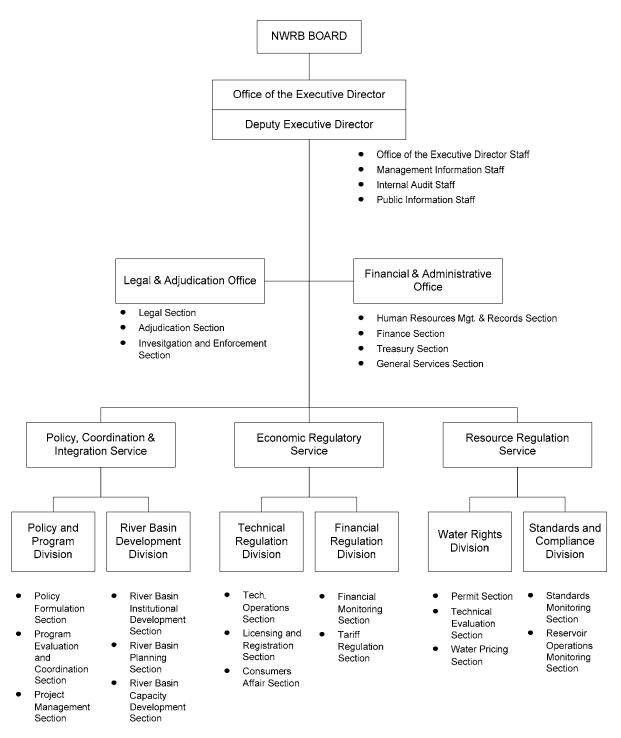
Annex-F 5.3.1 Flowchart for Processing of Water Permit Application Source: NWRB



Note: Values in ( ) indicate staff number/position.

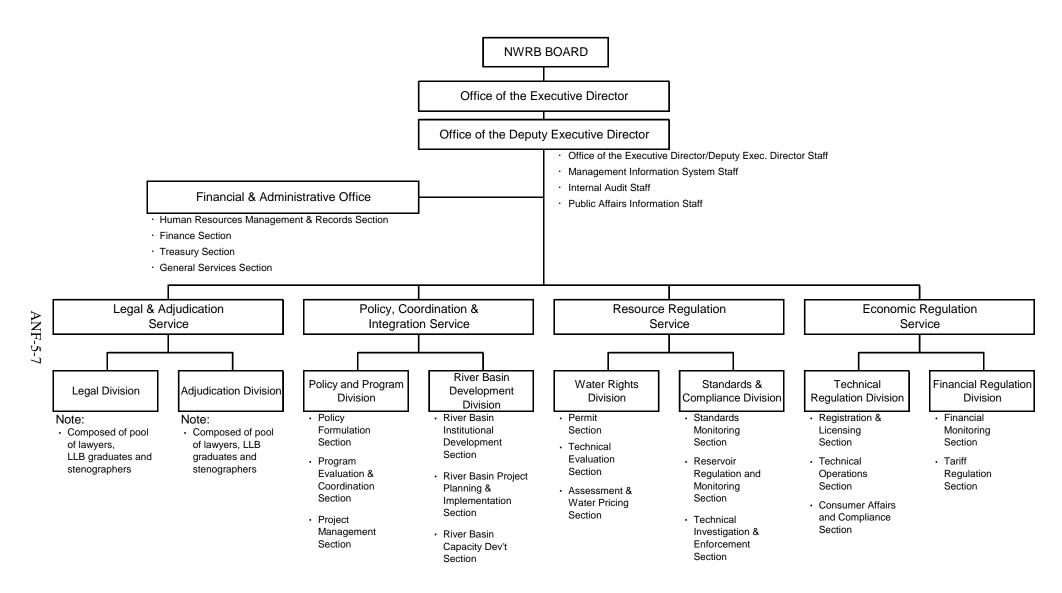
	Policy and Program	WaterRight	Water Utilities	Monitoring and Enforcement	Administrative and Financial
Engineer	10	4	-	11	-
Special investigator	-	5	-	-	-
Planning officer	1	-	-	-	-
Development	-	-	-	2	-
management officer					
Instrument technician	-	-	-	4	-
Information analyst	3	-	-	-	-
Statistician	1	-	-	-	=
Economist	3	=	-	ı	=
Financial analyst	=	=	3	ı	=
Regulation officer	=	=	7	-	=
Attorney	=	1	=	=	=
Administrative	4	3	2	1	30
Total	22	13	12	18	30
(95+8=103)					

Annex-F 5.3.2 Organization Chart of Present NWRB as of March 2009 Source: NWRB

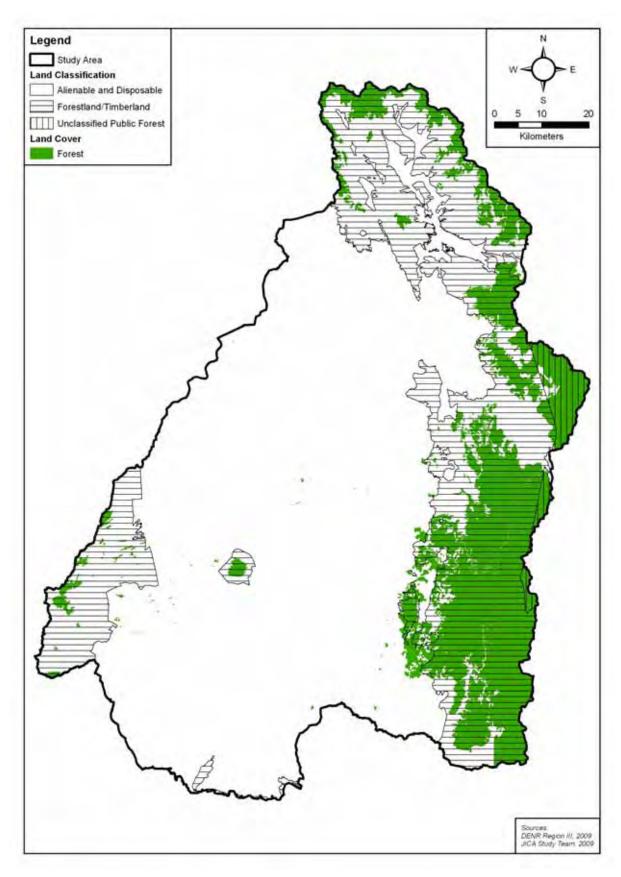


Source: Proposal to DBM, NWRB

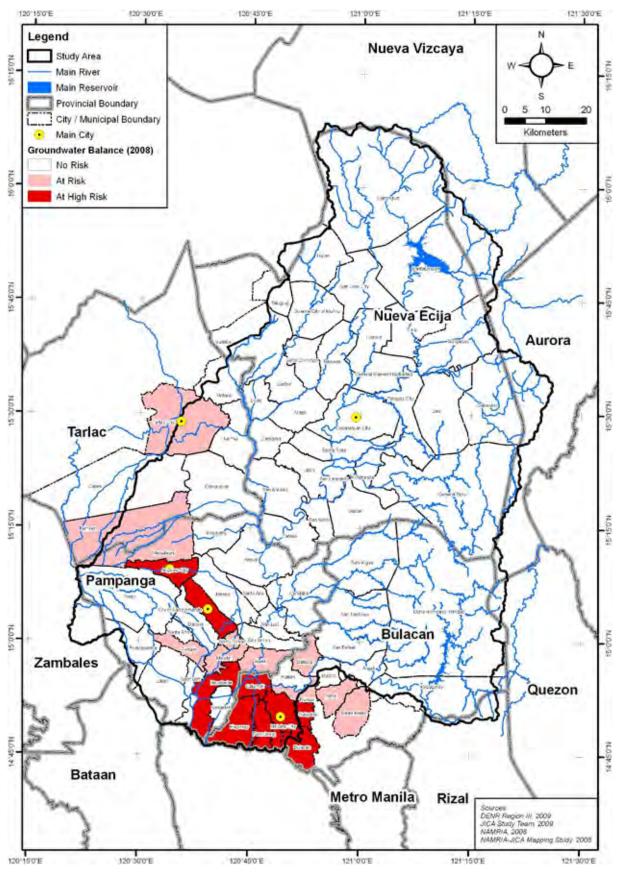
Annex-F 5.3.3 NWRB's Proposed Organizational Structure as of March 2009



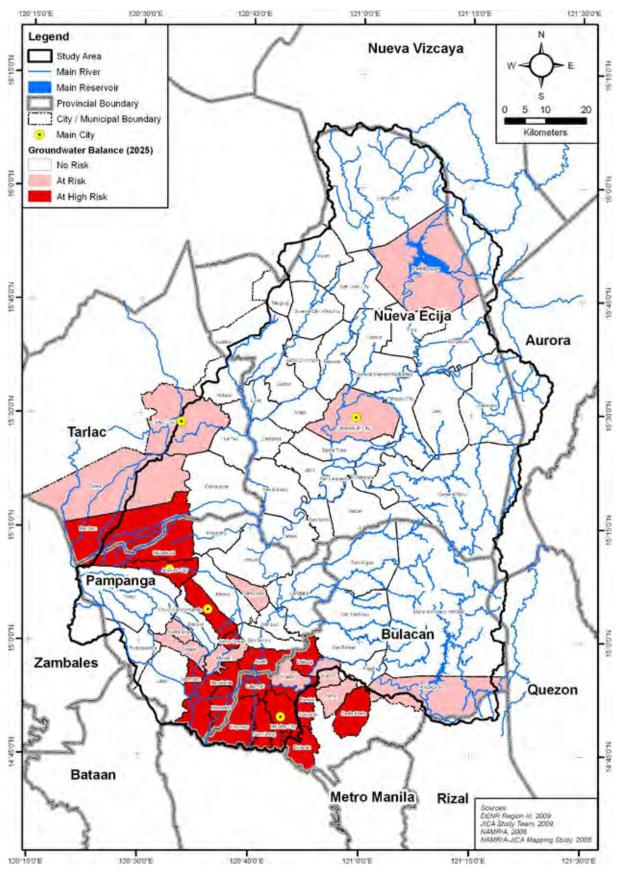
Annex-F 5.3.4 NWRB's Proposed Organizational Structure, September 2010



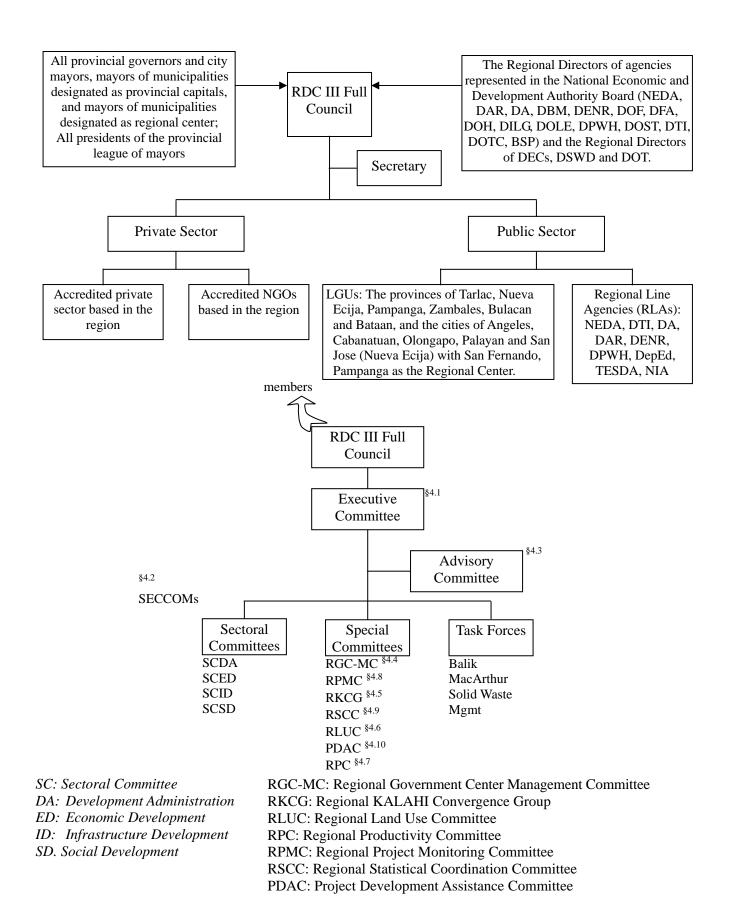
Annex-F 6.5.1 Land Classification vs. Land Cover Over Forest Lands in the Study Area 2005



Annex-F 6.7.1 Evaluation of Groundwater Usage Condition in Present Condition (2008)

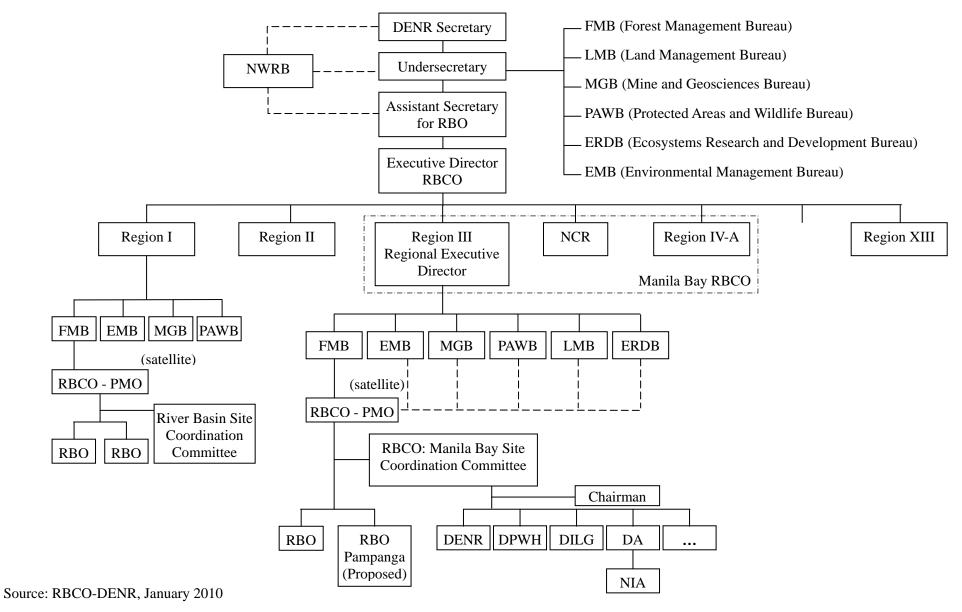


Annex-F 6.7.2 Evaluation of Groundwater Usage Condition in Future Condition (2025)

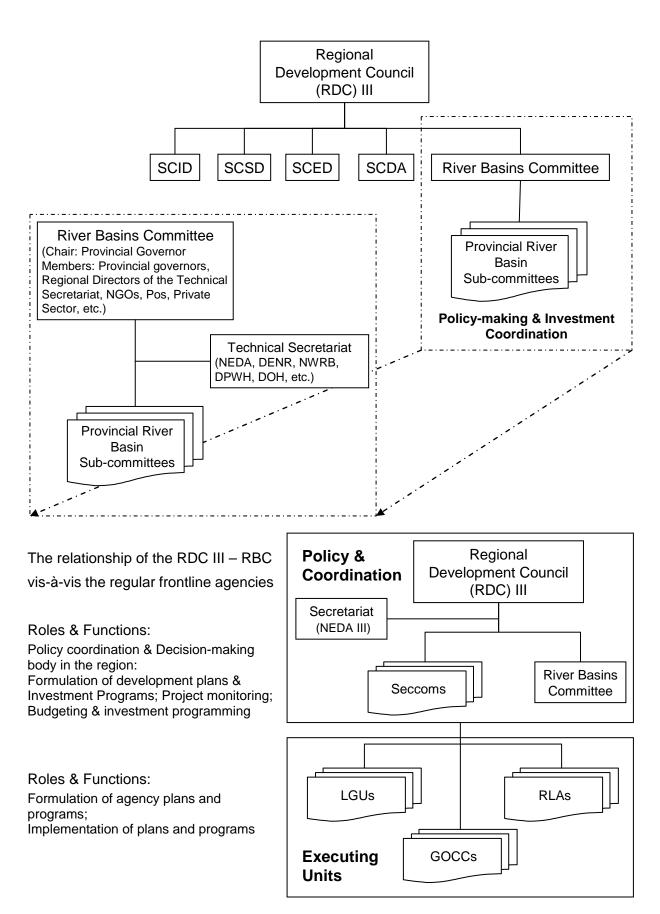


Source: Handbook of the Regional Development Council III (RDC III) Central Luzon Region, Revised August 2006, p26 & pp. 1-25

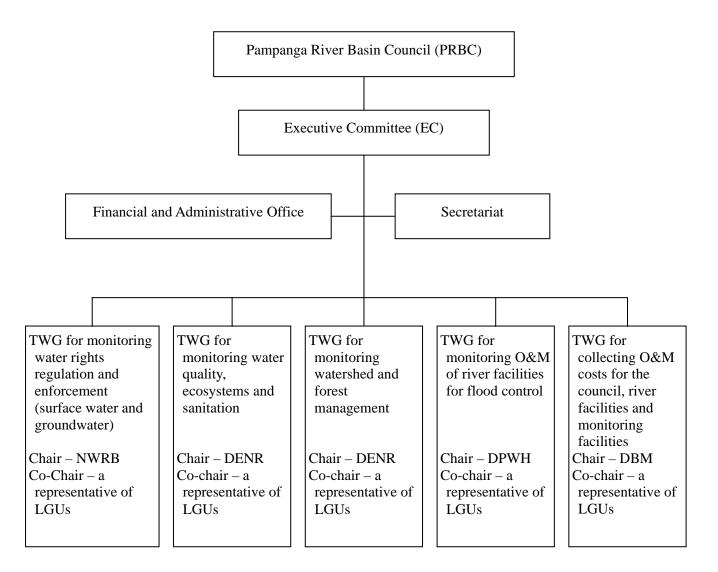
Annex-F 12.4.1 Organization Structure of Regional Development Council of Region III



Annex-F 12.4.2 RBO under of RBCO and Satellite RBCO, Manila Bay Site Coordination Committee



Annex-F 12.4.3 Proposed creation of a Committee on River Basins under the Regional Development Council (RDC) III

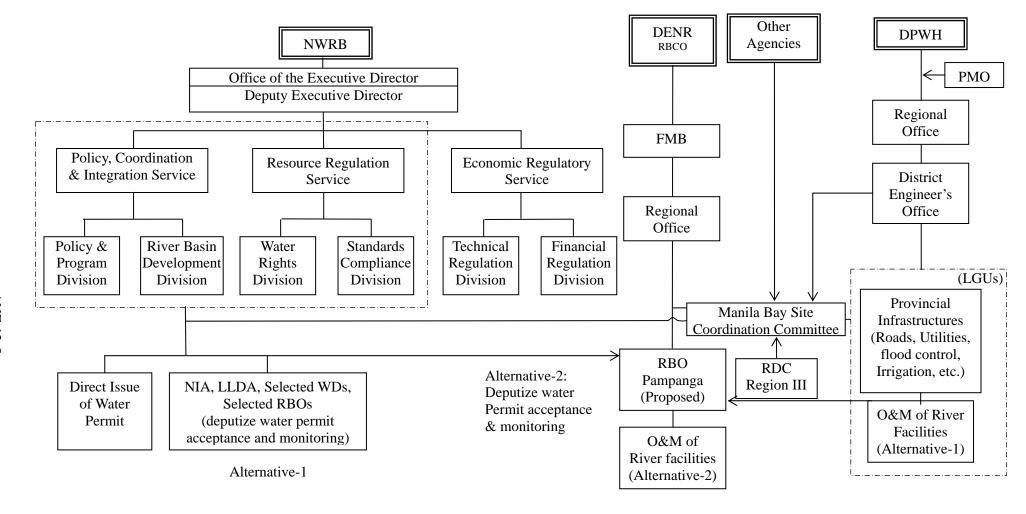


Note: PRBC and EC are multi-sectoral, led by the Chair, a representative of LGUs in Region III.

A representative of PRBC or EC is elected by the member of PRBC and EC respectively

Source: JICA Study Team

Annex-F 12.4.4 Independent Pampanga River Basin Council



Source: JICA Study Team

Annex-F 12.4.5 Position of NWRB for Water Rights Regulation among RBCO and RBO