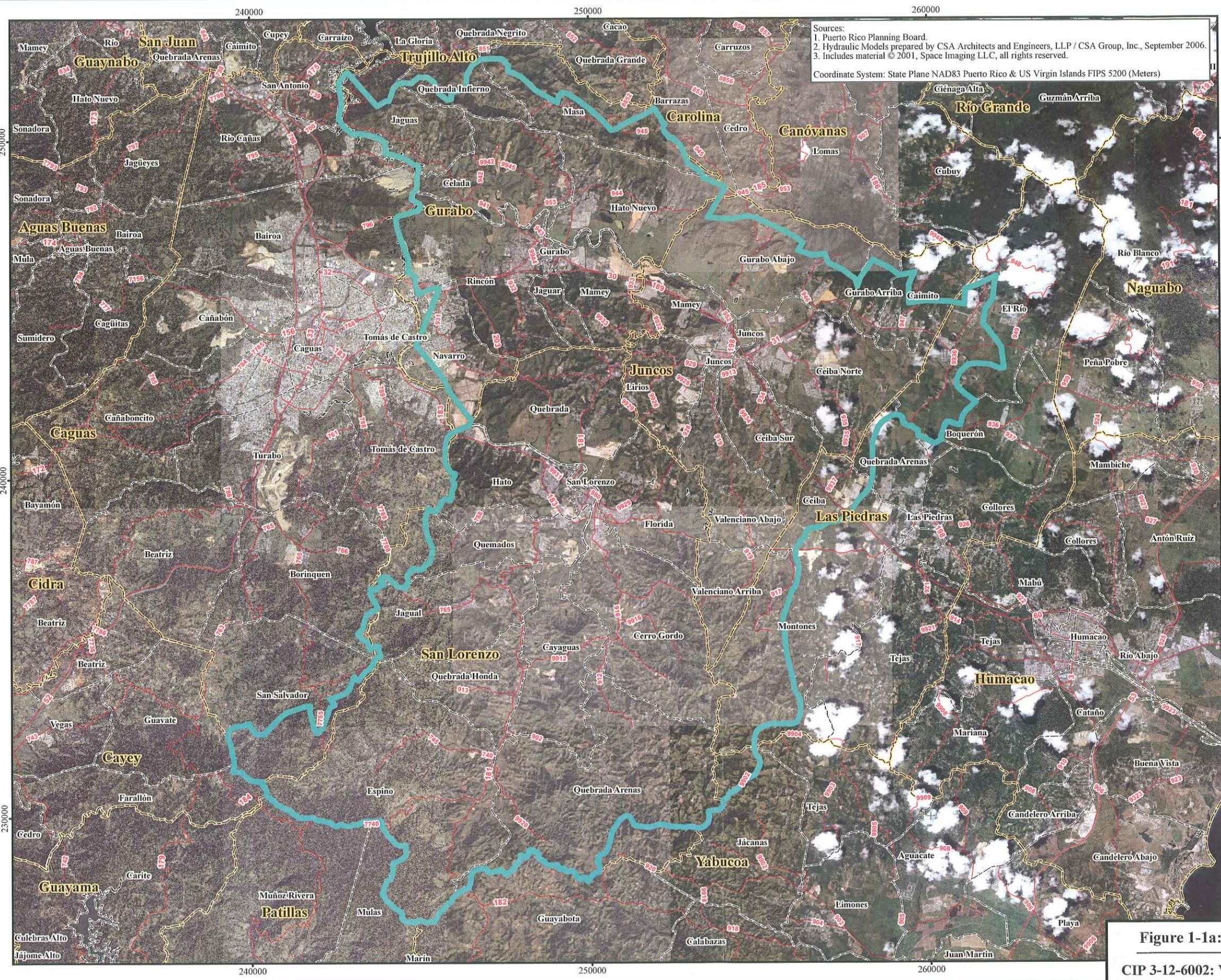


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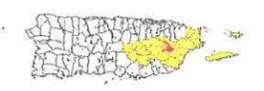


Sources:  
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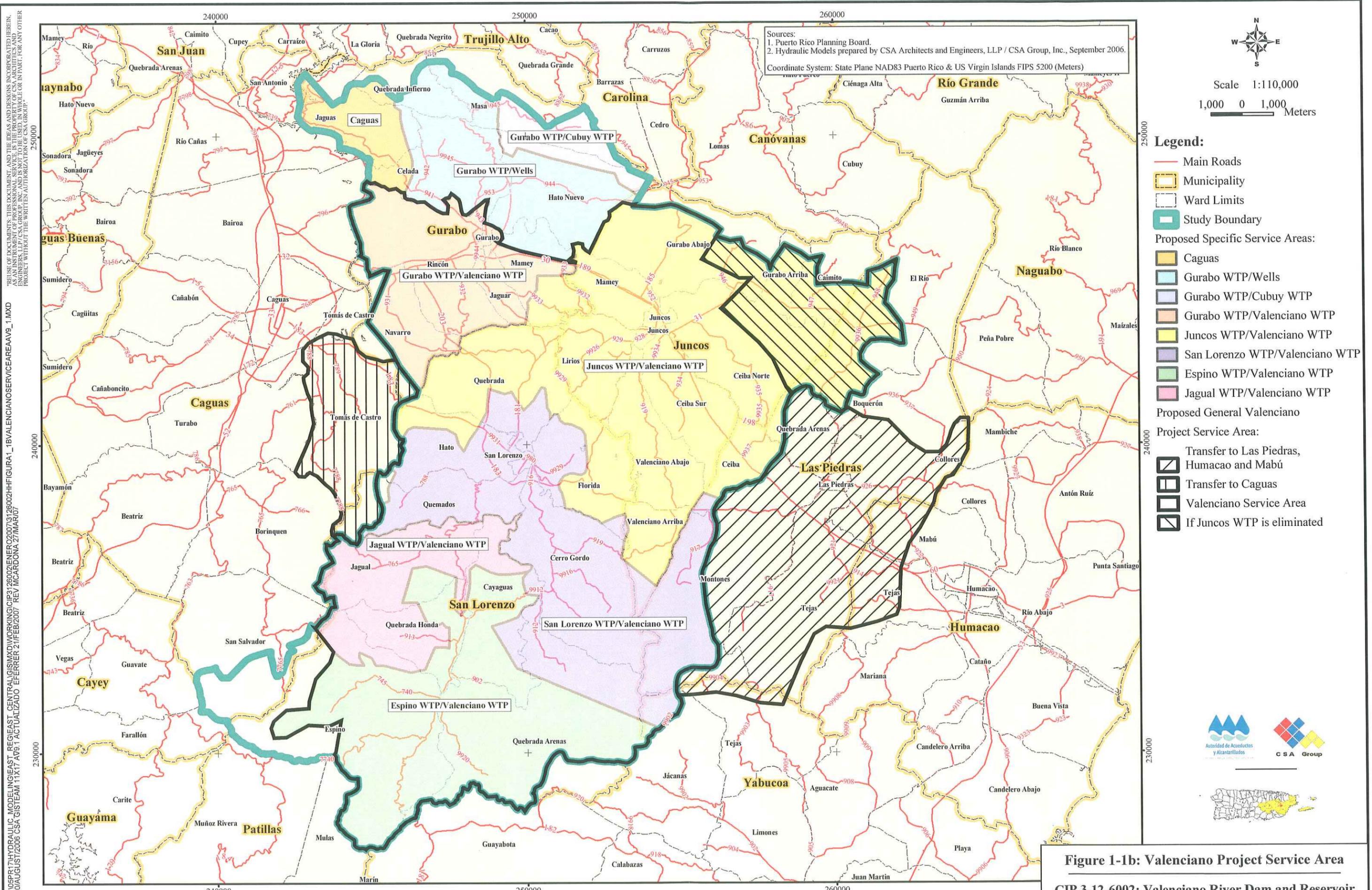


Scale 1:110,000  
 1,000 0 1,000 Meters

- Legend:**
- Main Roads
  - Study Boundary
  - Municipality Boundaries
  - Ward Limits



**Figure 1-1a: Location Map and Study Area**  
**CIP 3-12-6002: Valenciano River Dam and Reservoir**

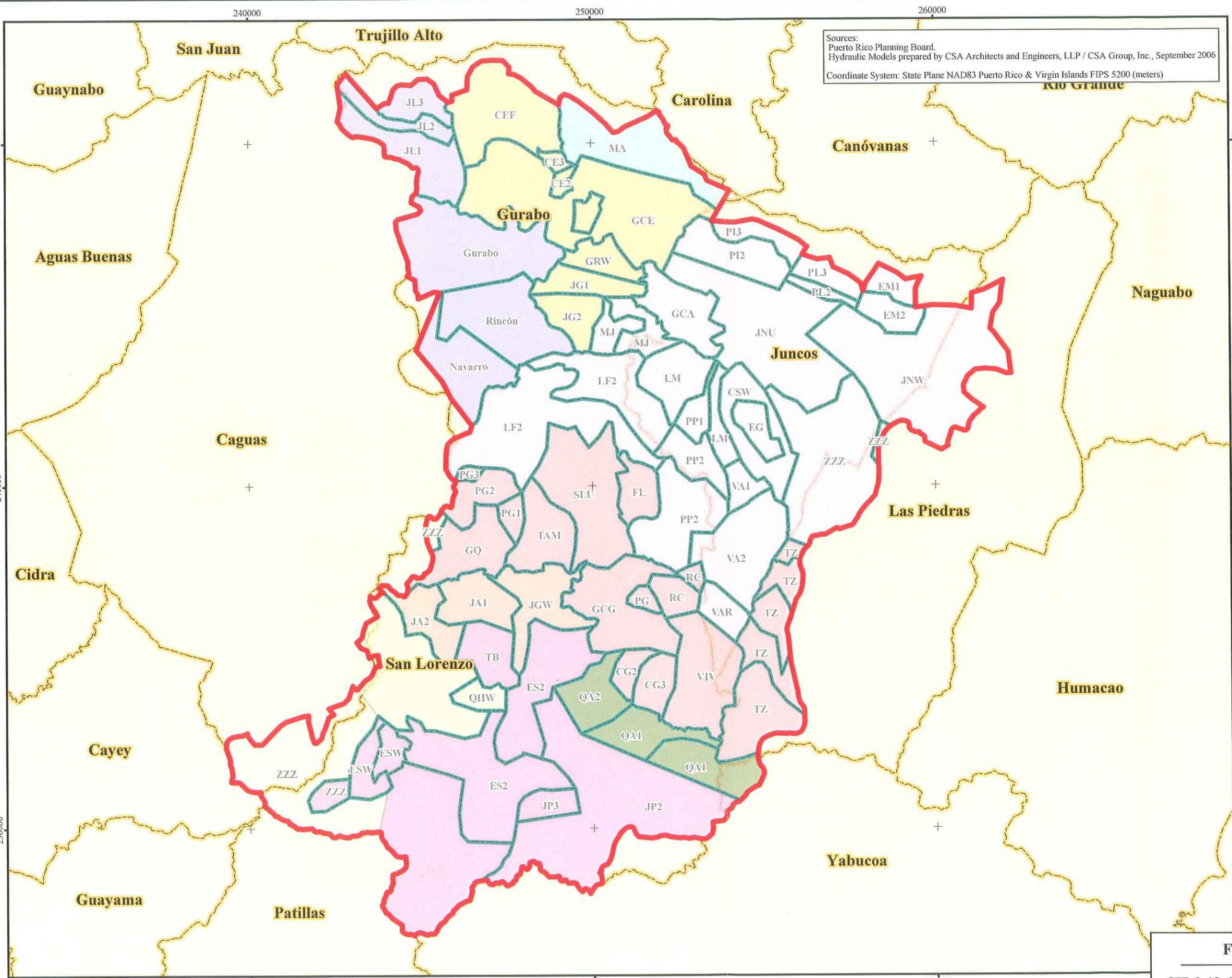


T:\05PRT\HYDRAULIC\_MODELING\NEAST\_RECEAST\_CENTRAL\GIS\MXD\WORKING\CIP3-12-6002\ENERG02007\3126002\HHFIGURA1\_1B\VALENCIANO\SERVICEAREA\AV9\_1.MXD  
 30/AUGUST/2006 CSA GISTEAM1 T1X17 AV9.1 ACTUALIZADO EFERRER 2/FEB/2007 REV ICARDONA 27/MAR/07

**Figure 1-1b: Valenciano Project Service Area**  
**CIP 3-12-6002: Valenciano River Dam and Reservoir**



T:\05PR17\HYDRAULIC\_MODELING\EAST\_REG\GIS\MXD\WORKING\CIP3126002\ENERO2007\3126002\HHFIGURE3\_1ASERVICEAREA200511X17\_AV9\_1.MXD  
 C:\SA GIS\TEAM EFERRER\11X17\_AV9\_1\5\SEPT2006\_REV EVAZQUEZ 24\ENE/07\_REV MCARDONA 27\MAR/07  
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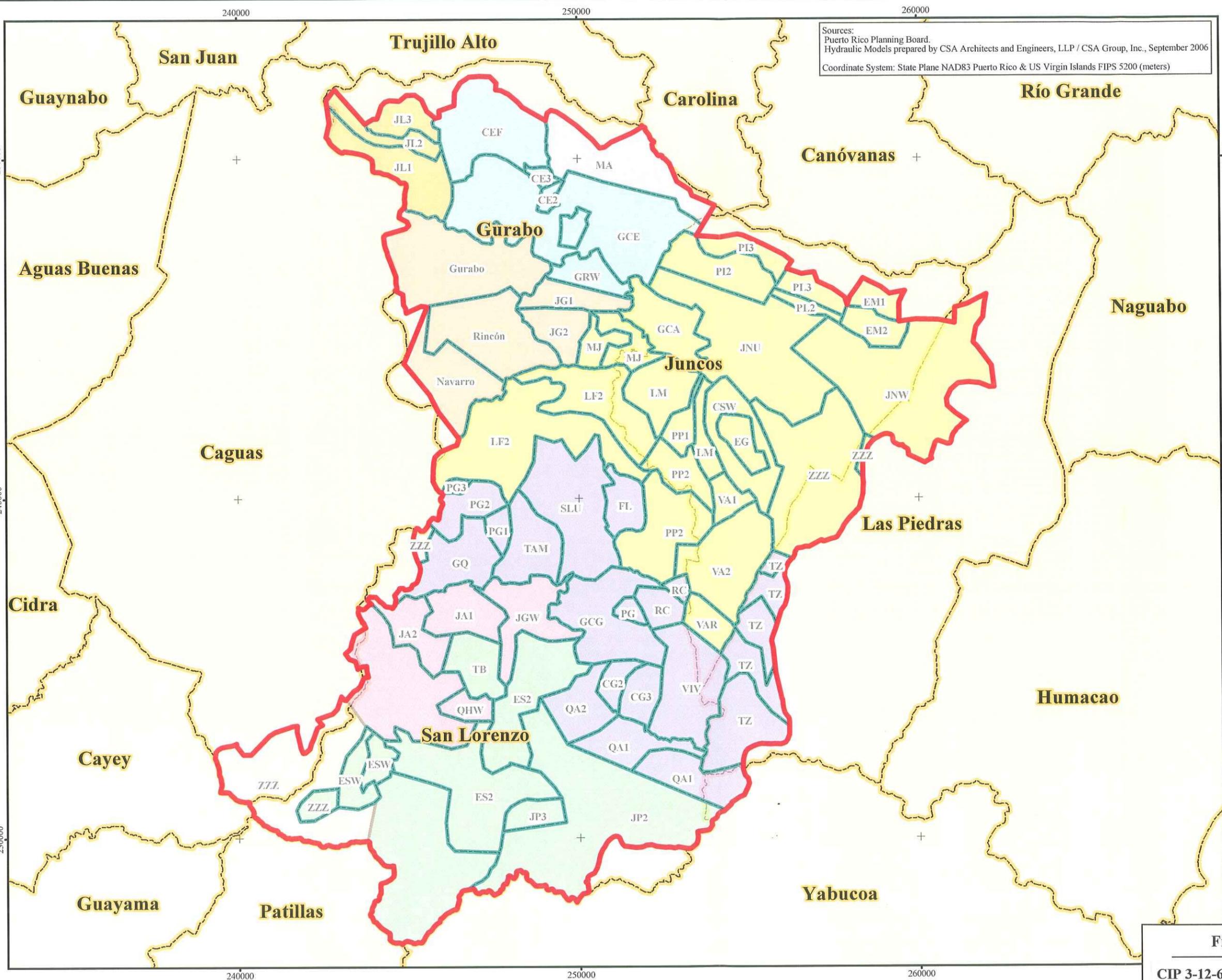
**Legend:**

- JNW Pressure Zone Code
- Pressure Zone
- Study Area
- Municipality Boundaries
- Service Areas:**
- Caguas
- Gurabo WTP/Wells
- Gurabo PF/Cubuy WTP
- Juncos WTP/Ceiba Sur WTP
- San Lorenzo WTP
- Quebrada Arenas WTP
- Quebrada Honda WTP
- Jagual WTP
- Espino WTP



**Figure 3-1a: Service Areas 2005**  
**CIP 3-12-6002: Valenciano River Dam and Reservoir**

T:\05PR17\HYDRAULIC\_MODELING\EAST\_REGIONAL\_GIS\WORKING\CIP3-126002\ENERO2007\8126002HHFIGURES\_1B\SERVICEAREA202511X17\_AV9\_1.MXD  
 5/SEPTEMBER2006 11:17 AM GISTEAM EFERRER TIXIT AV93ACTUALIZADO EVAZQUEZ 24/ENERO7 MORGADONA 27/MARZO7



Sources:  
 Puerto Rico Planning Board.  
 Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc., September 2006  
 Coordinate System: State Plane NAD83 Puerto Rico & US Virgin Islands FIPS 5200 (meters)



Scale 1:110,000  
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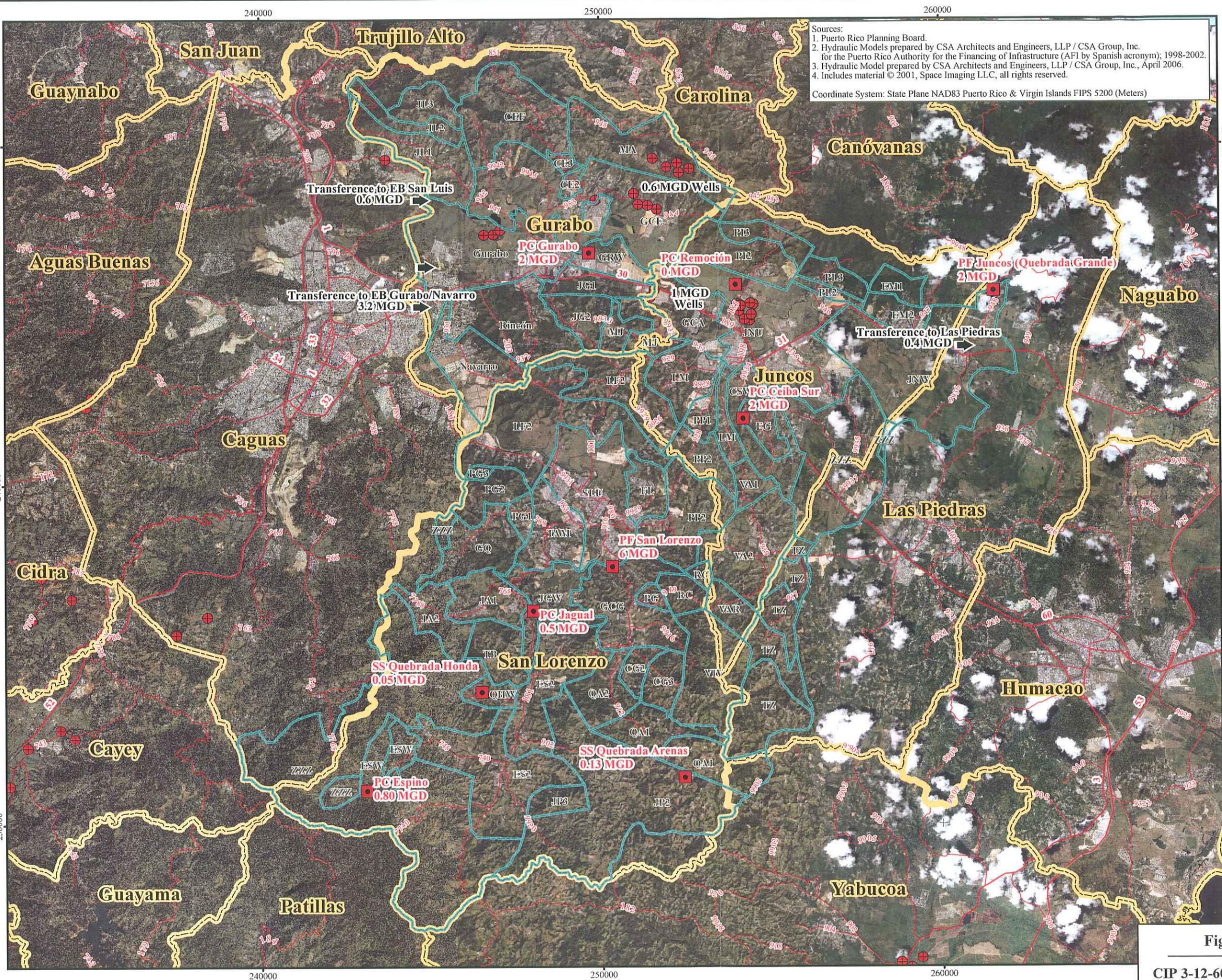
**Legend:**

- JNW Pressure Zone Code
- Pressure Zone
- Study Area
- Municipality
- Service Areas:**
- Caguas
- Gurabo WTP/Wells
- Gurabo WTP/Cubuy WTP
- Gurabo WTP/Valenciano WTP
- Juncos WTP/Valenciano WTP
- San Lorenzo WTP/Valenciano WTP
- Espino WTP/Valenciano WTP
- Jagual WTP/Valenciano WTP



**Figure 3-1b: Service Areas 2025**  
**CIP 3-12-6002: Valenciano River Dam and Reservoir**

T:\05PR\714\HYDRAULIC\_MODELING\NEAR\_EAST\_CENTRAL\GIS\MXD\WORKING\CIP3-126002\ENERO2007\3126002\HH\FIGURES\_2A\WATERSUPPLIES200511X17\_EAV9\_1.MXD  
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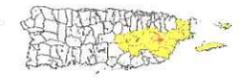


Sources:  
 1. Puerto Rico Planning Board.  
 2. Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.  
 3. Hydraulic Model prepared by CSA Architects and Engineers, LLP / CSA Group, Inc., April 2006.  
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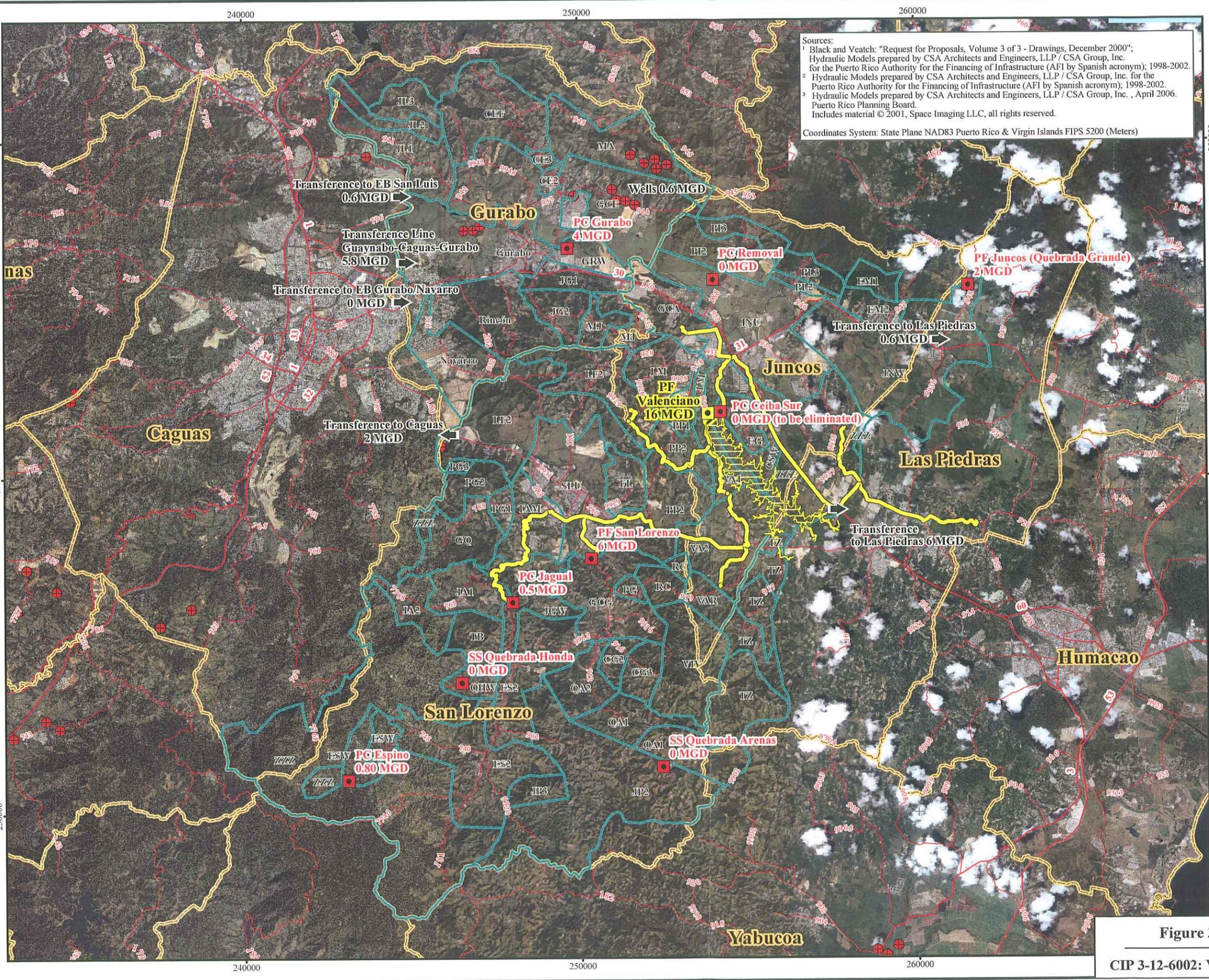
Scale 1:110,000  
 1,000 0 1,000 Meters

- Legend:**
- ZZZ Pressure Zone Code
  - Wells
  - Water Treatment Plants
  - Main Roads
  - Pressure Zones
  - ▭ Municipality Boundaries



**Figure 3-2a: Water Supplies 2005**  
**CIP 3-12-6002: Valenciano River Dam and Reservoir**

T:\05PR17\HYDRAULIC\_MODELING\EAST\_REGIONAL\_GIS\WORKING\CIP3-126002\FIGURE3\_2B\WATERSUPPLIES2025\1X17\_EAV9\_1.MXD  
 5/9/2006 USA GIS TEAM EFERRER 11X17 AVS.1 REV EVAZQUEZ 25/ENE/07 MORDONA ZIMARON



**Sources:**  
 1 Black and Veatch: "Request for Proposals, Volume 3 of 3 - Drawings, December 2000"; Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.  
 2 Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.  
 3 Hydraulic Models prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. , April 2006. Puerto Rico Planning Board.  
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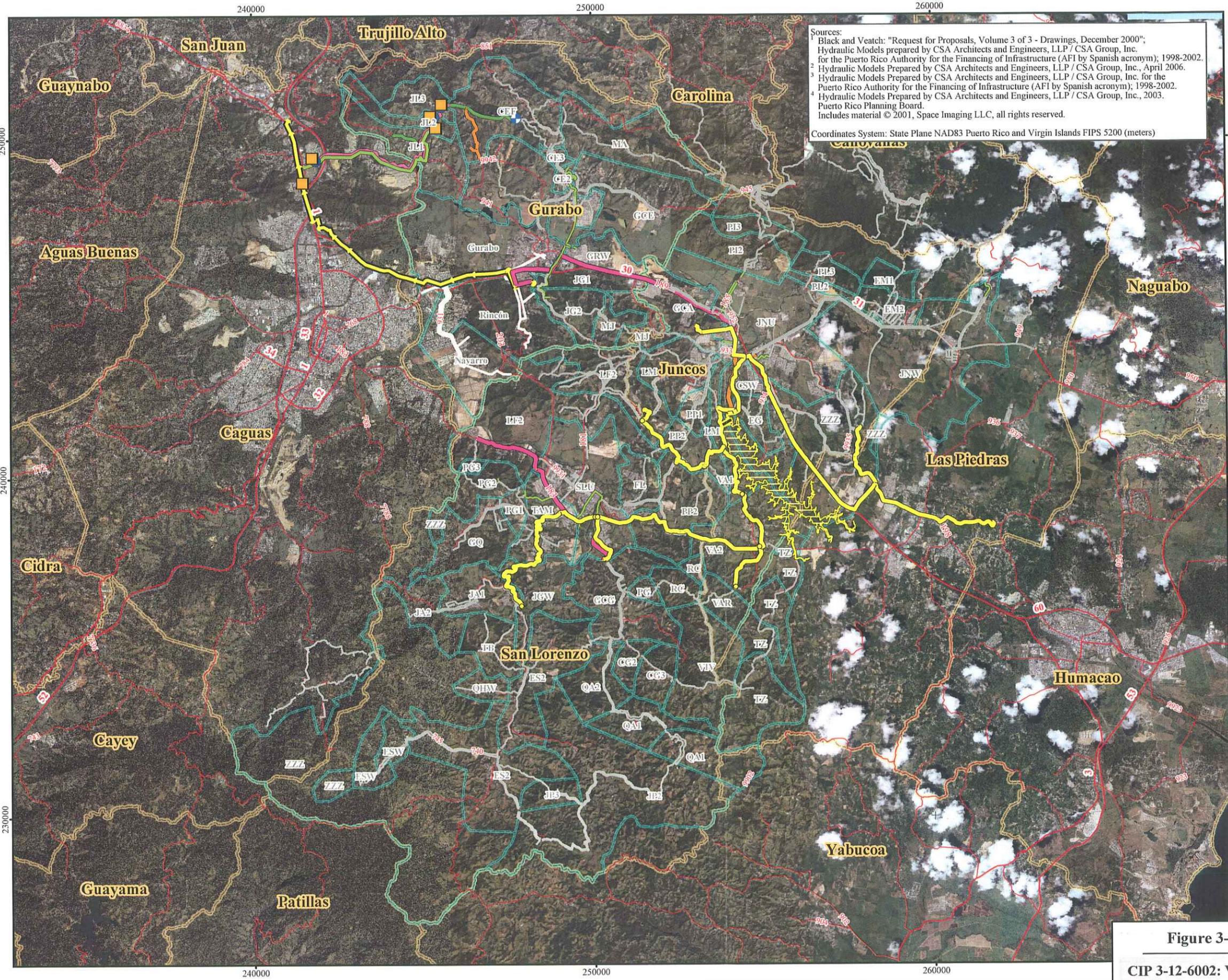
Scale 1:110,000  
 1,000 0 1,000 Meters

- Legend:**
- Proposed Facilities <sup>1</sup>:**
- Water Treatment Plant
  - Dam
  - Distribution System
  - Reservoir
- Existing Facilities <sup>2</sup>:**
- Water Treatment Plant
  - Wells
  - Main Roads
  - Zoning Pressure Codes & Limits
  - Municipality Boundaries

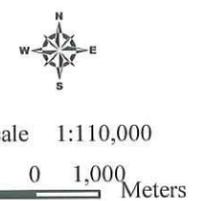


**Figure 3-2b: Water Supplies 2025**  
**CIP 3-12-6002: Valenciano River Dam and Reservoir**

T:\08P17\HYDRAULIC MODELING\EAST\_REQUEST\_CENTRAL\GIS\WORKING\CIP3126002\ENERO2007\3126002\FH\FIGURE3\_3\WATERSUPPLIES200511X17\_EAV9\_1.MXD  
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**Sources:**  
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 2 Hydraulic Models Prepared by CSA Architects and Engineers, LLP / CSA Group, Inc., April 2006.  
 3 Hydraulic Models Prepared by CSA Architects and Engineers, LLP / CSA Group, Inc. for the Puerto Rico Authority for the Financing of Infrastructure (AFI by Spanish acronym); 1998-2002.  
 4 Hydraulic Models Prepared by CSA Architects and Engineers, LLP / CSA Group, Inc., 2003. Puerto Rico Planning Board.  
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- Legend:**
- Proposed Facilities<sup>1</sup>**
- Distribution System
  - Reservoir
  - JNW Zoning Pressure Codes & Limits<sup>2</sup>
  - Municipality Boundaries
- Pipelines (Diameter in inches)<sup>3 4</sup>**
- from 2" to 8"
  - from 10" to 12"
  - from 16" to 18"
  - from 20" to 24"
  - from 30" to 42"



**Figure 3-3: Distribution System 2025**  
**CIP 3-12-6002: Valenciano River Dam and Reservoir**