



**US Army Corps
of Engineers®**
Philadelphia District

PROJECT FACTSHEET

**Section 22 Planning Assistance to States
Pennsylvania (Lehigh River Model)**

January 2009

CONGRESSIONAL DISTRICTS: Reps. Kanjorski (PA-11), Dent (PA-15)

APPROPRIATION / PHASE:
General Investigations

BUSINESS PROGRAM:
Watershed Planning

AUTHORITY: Section 22, Water Resources Development Act of 1974, as amended

DESCRIPTION: Section 22 provides authority for the Corps of Engineers to assist states, local governments, and other non-Federal entities in the preparation of comprehensive plans for the development, use, and conservation of water and related land resources. The Corps of Engineers can provide technical study (not design or construction) assistance. Each study should be completed within one year. Limited funds are available nationwide; ten million dollars is annually funded for projects nationwide. The local sponsor provides half the study cost, and in-kind credit can be applied to 100% of that contribution.

A cost share agreement with the PA Department of Conservation of Natural Resources (PADCNR) for the Lehigh River Model was executed in FY06. The objective of this study is to model proposed operational scenarios at F.E. Walter Dam to enhance downstream and in lake recreation and habitat. To accomplish this, a reservoir and river system flow and water quality model will be developed for the F.E. Walter Reservoir (on the mainstem Lehigh River), Beltzville Reservoir (inflow to the Lehigh River via Pohopoco Creek) and the Lehigh River from F.E. Walter downstream to Northampton, PA, a distance of approximately 45 miles. The model will simulate reservoir operational scenarios and predict corresponding changes in temperature and water quality. The results will be used to help evaluate the potential positive and negative impacts that these operational scenarios will have on flood control, recreational boating, and aquatic resources.

STATUS: FY07 funds were used to initiate Phase 1, compiling existing data and developing a model that predicts changes in temperature and flow based on changes in reservoir operations. A contract was awarded to ERDC to develop the model and completion is anticipated in FY09. FY08 funds will be used to initiate Phase 2, which will add other water quality parameters to the existing model currently under development. Phases 1 and 2 are fully funded. The non-Federal sponsors for Phase 2, the PADCNR and the Pennsylvania Fish and Boat Commission, must sign the cost share agreement and provide non-Federal funding before work can begin on Phase 2.

FINANCIAL

DATA (\$000)	Fed	Non-Fed	Total
Phase 1	75	75	150
Phase 2	172	172	344

BUDGET

DATA (\$000)	Comments
FY 06	\$10
FY 07	\$75 Phase 1
FY 08	\$172 Phase 2
FY 09	0

Section 22 Planning Assistance to States, Pennsylvania *(continued)*

SPONSOR: Pennsylvania Department of Conservation and Natural Resources

PROJECT MANAGER: Heather Jensen
(215) 656-6589
heather.n.jensen@usace.army.mil