

WATER RESOURCES PROJECTS ALABAMA

Roller compacted concrete (RCC) has been used to construct large dams (dams over 50 feet high) in the United States since the first one was constructed in the early 1980's. Progress in design and construction over the ensuing decades have solidified RCC as an economical and resilient method to build large dams. See below for examples of successful large dam projects that have been completed in the state. Learn more by visiting [PCA's Dams Page](#).

● A red dot indicates RCC Dam project 50' and higher



Name	City	Date	Max Height (ft.)	Length (ft.)	RCC Volume (cy)	Cement (lb/cy)	Flyash (lb/cy)	Upstream Facing	Total Project Cost (\$ Millions) (2)	RCC Unit Cost (\$/cy) (2,3)	Owner	Designer	Contractor	River
Bear Creek (replacement)	Hodges	2009	85	1,385	78,660	150	150	Formed Conventional Unreinforced Concrete	14+/-	87.50	Tennessee Valley Authority	Paul C. Rizzo Associates Inc.	ASI Constructors, Inc.	Bear Creek
Duck River Phase II & Raw Water Intake	Cullman	2015	137	342 2,400 Total	155,200	180	93	Formed RCC (see comments)	110	60.37	Cullman Utilities Board	CH2M Hill	ASI Constructors, Inc.	Duck
Comments:	Most of the permanently submerged portion of the upstream face was RCC directly against formwork with bedding mortar lift joints. The zones at and above water line were grout enriched RCC.													

Notes:	
1.	The information contained herein was compiled by the Portland Cement Association and published for informational purposes only. The user of this information is responsible for confirming the accuracy or completeness of the information.
2.	Cost information shown is nominal.
3.	RCC unit costs do not include mobilization costs.