



**US Army Corps  
of Engineers**  
Portland District



*Mount St Helens Sediment Retention Structure, roller compacted concrete*



*Elk Creek Dam*

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# Roller Compacted Concrete

Portland District first began development with RCC during the 1970's with a test fill constructed at Lost Creek for the Elk Creek Project. Within the District and through Support for Others the District Staff has been involved in numerous studies, consultations, investigations, test fills, testing, design and construction. The Following lists projects which the district has played a role, from the 1970s into the new millennium.

## Experience and Expertise

Lost Creek/ Elk Creek Test Placement	1971
Zintel Canyon Dam RCC Evaluation	1977
Bonneville Second Powerhouse Foundation Protection	1977
North Fork Toutle River M-1 Spillway, Washington	1981
Willow Creek Dam Test Placement	1981
Willow Creek Dam, Hepner, Oregon	1982
Elk Creek Test Fill No. 1, Troutdale, Oregon	1982
Cayuse Site Paving , Vancouver Island, Canada	1983
Fort Lewis RCC Paving and Hardstands, Ft. Lewis, Wash.	1984
Elk Creek Test Fill No. 2, Sandy, Oregon	1985
Yakima Handstands	1985
Elk Creek Dam, Trail, Oregon	1987
SRS Fish Collection Facility FDM/P&S	1987
Conception Dam, Honduras	1988
PDX Taxiway, Portland, Oregon	1988
Multnomah County RCC Test Paving, Portland, Oregon	1989
Toutle River Sentiment Retention Structure (SRS)	1989
Argentina RCC Permeability Evaluation	1989
Auburn Dam, Auburn, Calif.	1989-94
New Elmer Thomas Dam, Lawton, Oklahoma	1990
Bonneville Navigation Lock Guide Walls	1991
Balambano Dam, Indonesia	1991
Binongan Dam, Philippines	1991
Cuchillo Negro Dam (assistance to Albuquerque Dist)	1991
Mt. Pinatubo Emergency Bank Stabilization, Philippines	1992
Cache Creek Settling Basin, Sacramento, California	1992
Zintel Canyon Dam, Kennewick, Washington	1993
Caliche RCC Aggregate Studies, Las Vegas, Nevada	1993
Elmer Thomas Dam (Const. Assistance to Tulsa District)	1993
Miel I Dam, Columbia, S.A.	1994
Rillito River Bank Stabilization, Rillito, Calif.	1994
Tropicana Detention Basin, Los Angeles, Calif.	1994
R-4 Detention Basin, Los Angeles, Calif.	1994
Tongue River Dam Rehabilitation, Montana	1995
Hanford RCC Waste Stabilization, Hanford, Wash.	1995
Blue Diamond Detention Basin, Los Angeles, Calif.	1996
Bullard Dam A-E selection and Design Review, Oregon	1997-99
Toutle River SRS Spillway Repair	1997
Penn Forest Shear Strength Evaluations, Harrisburg, Penn.	1997
North Unit Irrigation District Canal Lining, Bend, Oregon	1997
Lake Royer Dam, Ft Richie, Maryland	1997
McAlpine Locks and Dams - RCC Lock Wall Design - FDM	1997
Lilly Bayou, Louisiana	1998
Marmet Lock Walls, Evaluation Report (Huntington Dist.)	1998
Marmet Lock Replacement RCC Specifications	1999-2000
McAlpine Locks and Dams - RCC Lock Walls P&S	1999-2001
Vesuvius Dam - (USDA and Huntington Dist.) Review	2000
Table Rock Dam - Little Rock	2000-2001