

## **GROWING GREENER GRANT NORTHUMBERLAND COUNTY CONSERVATION DISTRICT CARL ROSS PROJECT**

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### **PROJECT DESCRIPTION**

The Carl Ross farm is a multi-generation, family-owned dairy farm located in central Northumberland County. As it goes for most dairy farmers, facing the mud and muck becomes a daily occurrence when doing regular barn work. The Ross farm was no different. The L-shaped area between the feed table, dry lot, and milking parlor was so overly traveled, they couldn't keep it clean. There was an unfenced wet section of pasture and no real path for the cattle to access the dry sections. All excavation would be done by Ferster's Excavation LLC and the concrete work by White Deer Concrete.

The project would include over 4000 sq feet of concrete in the L-shaped heavy use area. There would be two separate 9 foot wide cattle walkways for the heifers to access good pasture without crossing the wet area. The Ross's would be fencing the cattle walkways and pasture as part of their match. Lastly, a gutter would be installed by Miller's Seamless gutters on the heifer barn with two outlets to keep the new walkways from flooding.

### **PROJECT GOALS**

The project objective was to clean up stormwater runoff being discharged from the farm.

### **PROJECT RESULTS**

Upon completion of the project and after the first rainstorm it was evident that this project's goals were met. The Farmers were more than patient with the district as well as the contractors during the several months it took to bring the project to a finish. Almost all the credit must be given to Ferster Excavating LLC. for their cooperation in preparing the site and meeting all the concrete company's needs. The concrete work required the perfect pitch and slope in order that the rain might run off it just right. Hours of thought and shooting grade was needed to make sure that water would not flow into any building but around them all and out the swale at the bottom of grade.

### **PICTURES**



### **PROJECT COSTS**

The total cost of this project was \$66892.80 less the Ross's match of \$9,664.80 leaves a final total of \$57228.00.

### **LESSONS LEARNED**

A few problems did arise during the duration of the Carl Ross project. The biggest one was also our largest success. Shooting grade to be sure that the concrete would be pitched correctly. As stated previously, the hours of careful consideration with shooting grade are largely the reason for the positive turn out here. All that remains to be done is the fencing which the Ross's will be doing as their portion of the project.

### **PARTNERS**

CAP Program