



Applied Polymer Systems, Inc.

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Innovations

Rolling M Ranch Pond Clean Up

Rolling M Ranch in northeast Georgia is nearly 500 acres of rolling green hills and home to more than 300 registered Angus cattle. Rolling M Ranch has a 4.5 acre pond that became contaminated with sediment during the construction of the Elba Express natural gas pipeline. This pipeline, owned by El Paso Corporation out of Houston, Texas, stretches 180 miles from Anderson, South Carolina to the Elba Island Liquefied Natural Gas terminal in Savannah, Georgia.

Marion McHugh, owner of Rolling M Ranch, was very concerned about the turbidity in his pond because his cattle were drinking the water and getting sick. Mr. McHugh contacted Erosion Tech to assist him with clearing the turbidity from the pond which, by that point, had reached 967 NTU.



Above: Rolling M Ranch pond before treatment, turbidity level over 900 NTU

Below: The L.I.P.V.A.C. System from Eco Pond Rescue installed at Rolling M Ranch.



Erosion Tech's first idea was to use a dewatering ditch, lined with Floc Logs, to treat the water and discharge it back into the pond. Then they thought about trying the new L.I.P.V.A.C.S with Applied Polymer Systems, Inc. Floc Logs which successfully flocculate and remove phosphorous and nonliving nutrients.

This particular pond required the 703d#3 and 706b Floc Logs to clarify the water. The pond contained approximately 18 million gallons of water, which would require 18 of each Floc Log to successfully treat the system. The 706b and 703d#3 L.I.P.V.A.C Logs, and two (2) L.I.P.V.A.C.S. were installed in late March.

The L.I.P.V.A.C.S. ran for approximately 24 hours a day for about 30 days. After treatment the pond's NTU had been reduced from 967 to 14.

Working together, APS, Erosion Tech, and Eco Pond Rescue found a solution for clarifying the Rolling M Ranch pond.

Mr. McHugh is happy to see that his pond is back to normal and there is no longer a threat to his cattle. El Paso Corporation is very pleased with the results and stated that they plan on using many more of these systems in the future.



Above: The turbidity level of the pond has been reduced dramatically and now the bottom of the pond is visible in places.

Below : After treatment with L.I.P.V.A.C. System and Logs, the turbidity level of the pond is now below 15 NTU.



For more information about the products used in this project contact:

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