

Wetlands Committee Progress Report  
September 16, 2017

**Lake Timicau Restoration Update:**

Overview:

In preparation for Hurricane Irma, the subcontractor on the project substantially built up the dike at six-pipes with mounds of sand/dirt. They also raised the water levels in Lake Timicau. In a hurricane it is important to lower the pressure gradient between the potential surge and the existing body of water. This approach was to lessen the "waterfall effect" which can cause massive erosion when a surge washes over the dikes.

Hurricane Irma has caused much damage to the project. While the concrete structures are still in place, the surrounding dikes were washed out as described below. Most of the storm surge came into Lake Timicau from the ocean. Waves over-washed the beach dunes causing a flooding of the lake. A smaller surge entered Lake Timicau via Velvet Creek, but the overwhelming force of the storm came from the ocean. The force of the water caused a breach at Six-Pipes, a washout of the road at Lake Timicau Road and at One-Pipe. Presently, at high tide, the ocean water can enter Lake Timicau.

Six-Pipes:

The force of the storm washed out an estimated 100 feet of the dike. The planned location of the water control devices is still intact. Malcolm Baldwin, Ducks Unlimited Engineer and the contractor, Strait Lyle will be having discussions about building a more substantial bulkhead (made of steel).

One-Pipe:

There was erosion on both sides of One-Pipe causing the road to be washed out. Malcolm Baldwin does not expect this site to be a difficult repair. The newly installed structure is still in place.

Connection of LT to the Impoundment:

Lake Timicau Road washed out in a similar fashion to the damage caused by last year's hurricane. The newly installed structure is still in place.

Next steps:

On Monday, September 18, Malcolm Baldwin, Jamie Rader of Ducks Unlimited and Strait Lyle will be meeting to assess the damage and come up with a plan of action. As of now, we anticipate first phase will include repairing the ocean side dunes. The roads will also be repaired ASAP.

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