

# CREATING A MAN-MADE WETLAND TO PROCESS BREWERY WASTEWATER



# WHAT MOST PEOPLE THINK A BREWERY IN LOUISIANA LOOKS LIKE



# ACTUALLY, OUR BREWERY IN ARNAUDVILLE, LOUISIANA





ZERO DISCHARGE

# POND DIMENSIONS, MEASURED FROM THE INSIDE BERM OF THE POND

DR. RON SHEFFIELD – LSU AG CENTER

LENGTH = 100 FT

BOTTOM LENGTH = 70 FT

WIDTH = 60 FT

BOTTOM WIDTH = 30 FT

DEPTH = 10 FT

SLOPE – 1.5 (RUN/RISE)

STORAGE DEPTH = 7.6 FT

STORAGE PERIOD = 60 DAYS

STORAGE VOLUME = 246,000

TOTAL VOLUME = 292,000

# MANMADE WETLAND DIMENSION

DR. WHITNEY BROUSSARD - UNIVERSITY OF LOUISIANA

Bottom Length = 150 FT

Bottom Width = 100 FT

Depth = 4.4 FT

Topsoil from construction was mixed with compost and placed in the wetland area to ready it for planting. Another 1.5 feet of subsoil towards the edges of the wetland area created a gently sloping berm roughly 2 feet higher than grade (similar to the pond).

# PLANT LIST

Bald Cypress (*Taxodium distichum*)  
Swamp Red Maple (*Acer rubrum*)  
Button Bush (*Cephalanthus occidentalis*)  
Horsetail (*Equisetum* spp.)  
Iris (*Iris* spp.)  
Green Arrow Arum (*Peltandra virginica*)  
Bull tongue (*Sagittaria lancifolia*)  
Rushes (*Juncus* spp.)  
Spikerush (*Eleocharis* spp.)  
Sedges (*Carex* spp.)  
Dwarf Palmetto (*Sabal minor*)  
Stokesia or Stoke's aster (*Stokesia laevis*)  
Powdery alligator flag (*Thalia dealbata*)

## Assisting organizations:

AquaTerre Solutions, Whitney Broussard (Owner) - Design and implementation

Bayou Vermilion District, Clair Coussan (Native Plant Specialist) - Donation of wetland plants except Bald Cypress

Durio's Nursery, Dalton Durio (Owner) - Nurseryman provided Bald Cypress

Oak Heart Farms, Ken Arceneaux (Owner) - Provider of Pooyie organic compost

# HIGHS AND LOWS OF OUR PROJECT



# ADVANTAGE AND DISADVANTAGES



# RECREATION AND TOURISM



# VISITING WILDLIFE

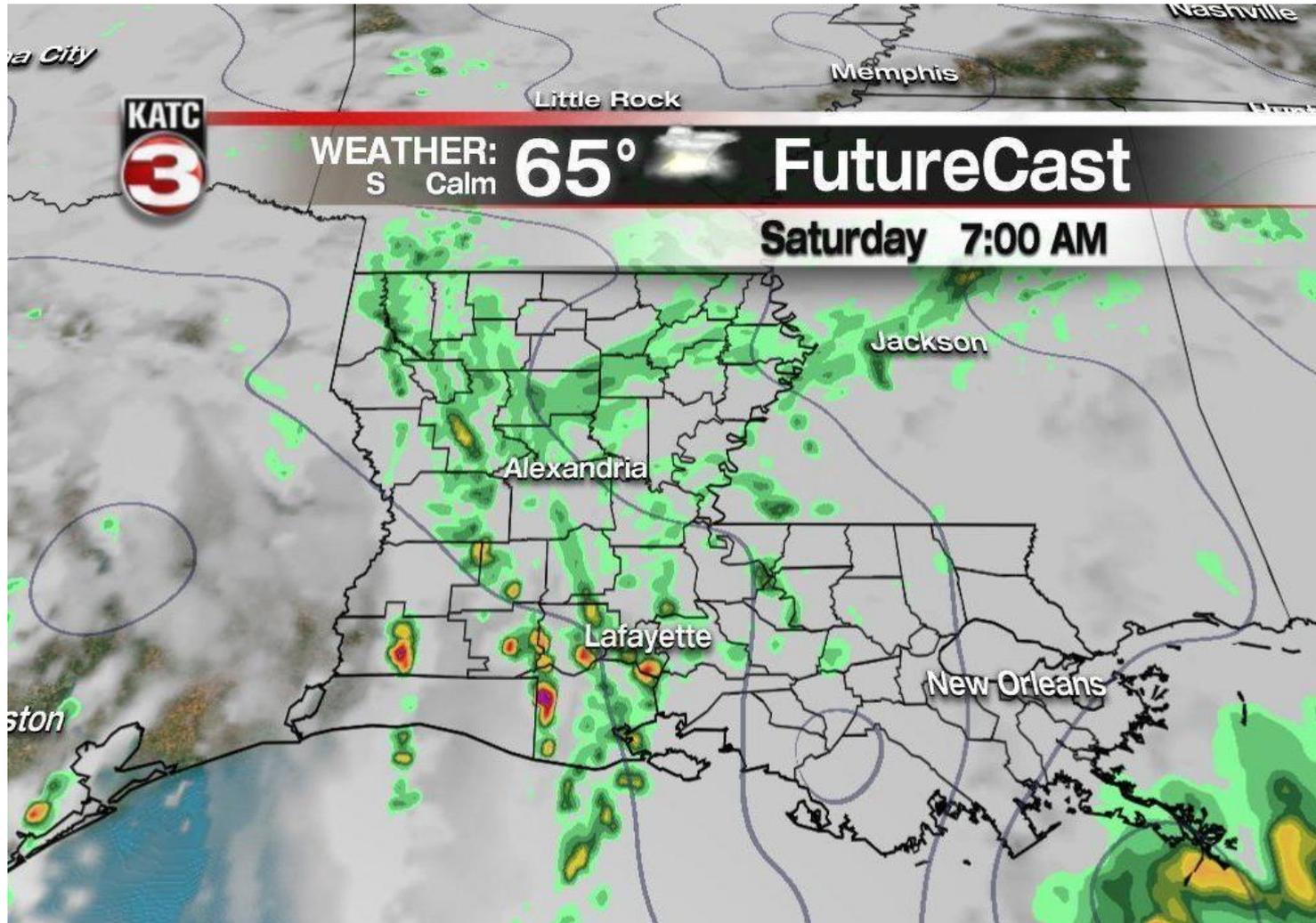


# TASTY CRAWFISH

(AND OTHER HARVESTABLE WILDLIFE)



# WEATHER IS UNPREDICATBLE



# NOT ALL WILDLIFE IS FRIENDLY



**IT CAN BE SMELLY**

