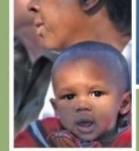
## WATER QUALITY AND E. COLI MONITORING FOR A GULF OF MEXICO COMMUNITY'S DECISION MAKERS EPA, MDEQ, MGCCC STUDENTS & FACULTY, NORTH GULFPORT 8<sup>TH</sup> GRADE



## the community's plan for the Turkey Creek and North Gulfport Neighborhoods



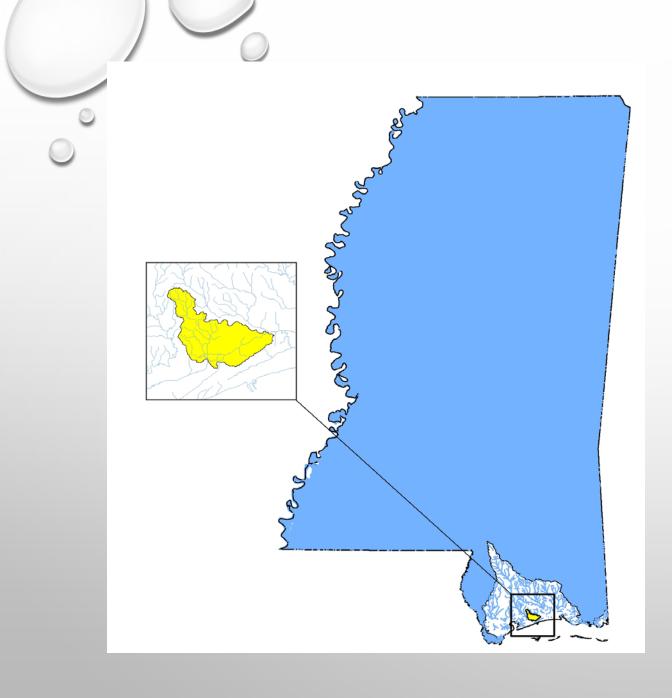


Prepared under the direction of Turkey Creek Community Initiatives and North Gulfport Community Land Trust

August 2011

Technical planning assistance and document production by MIG, Inc.

the turkey creek watershed



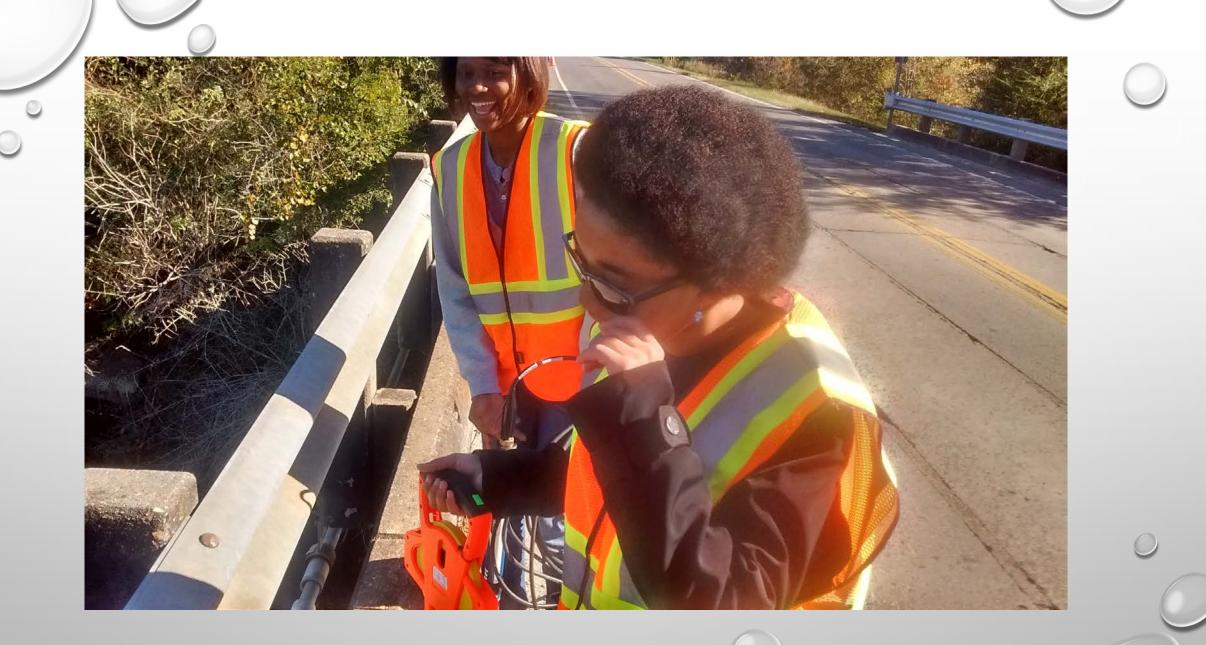
## Critical for us:

--Known concern: high fecal

--Cooperate with state and local partners

--Take quality assured data with local residents/students

--Provide data back to local Gulf decision makers in a usable form and provide assistance/follow-up

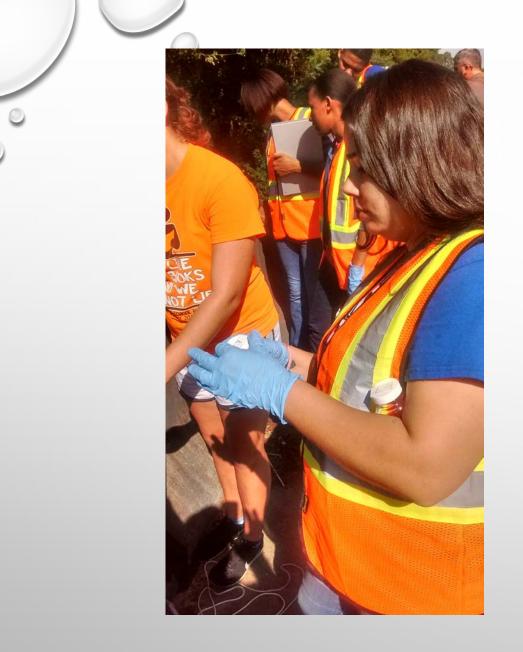


Measure Stream Height



Collecting Water Samples





Sterile bottle sample collection.

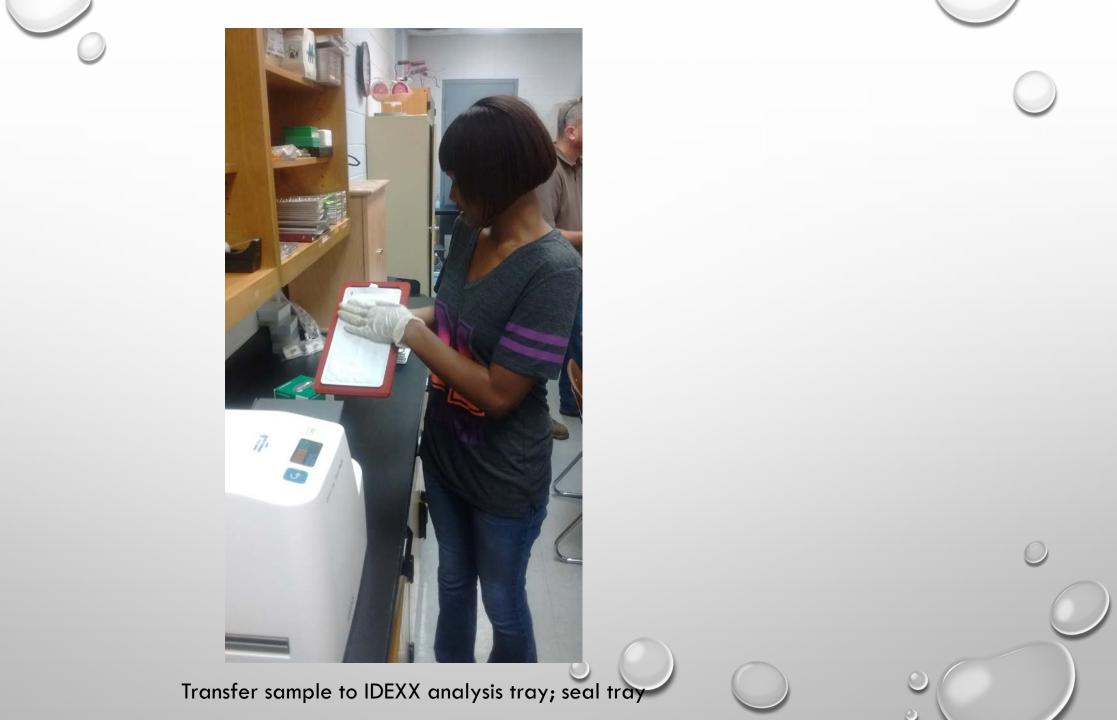


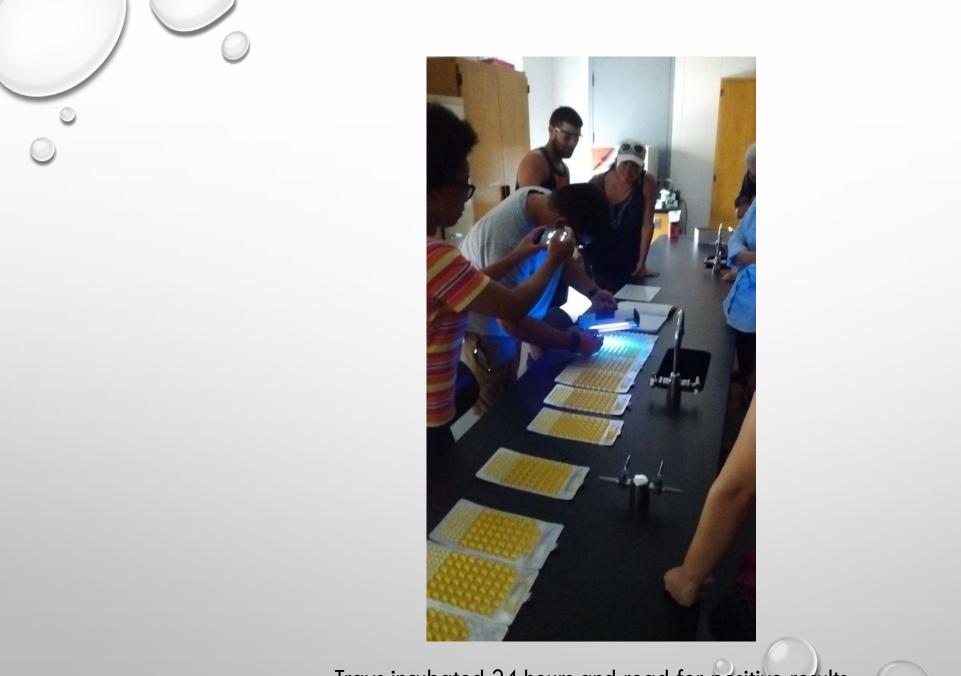


Add bacterial growth media (food) to 100 ml sample

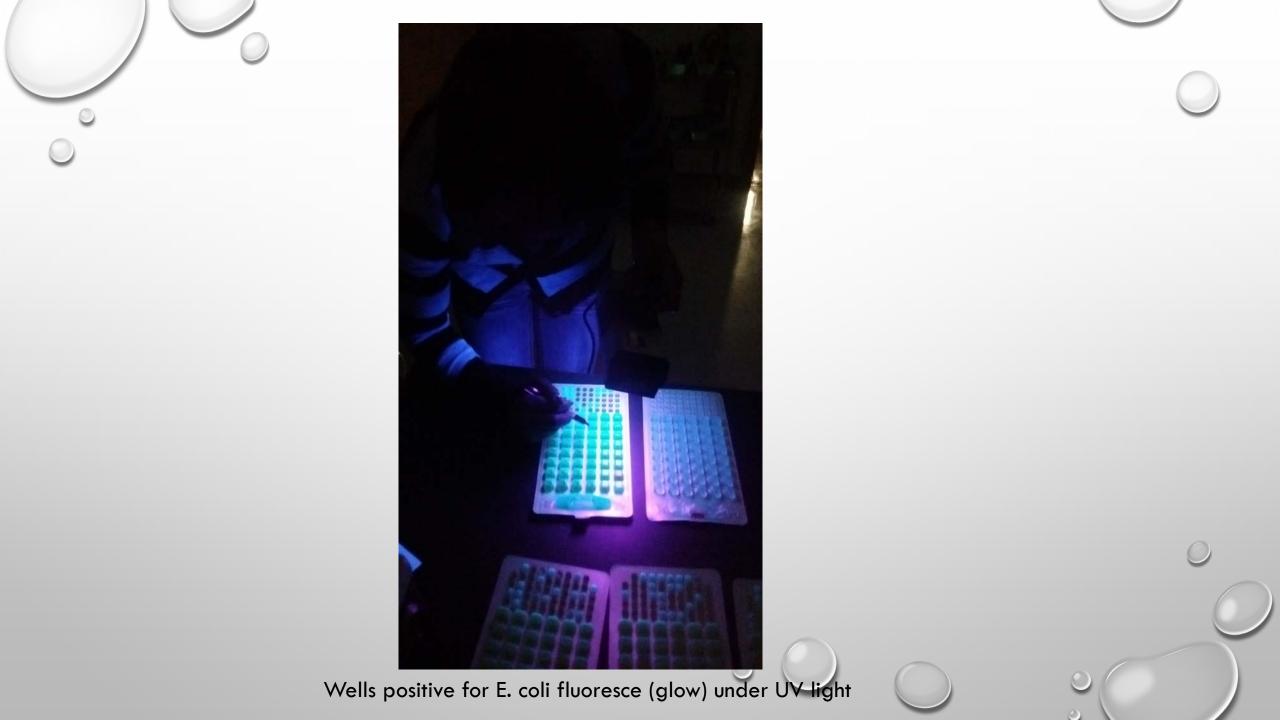


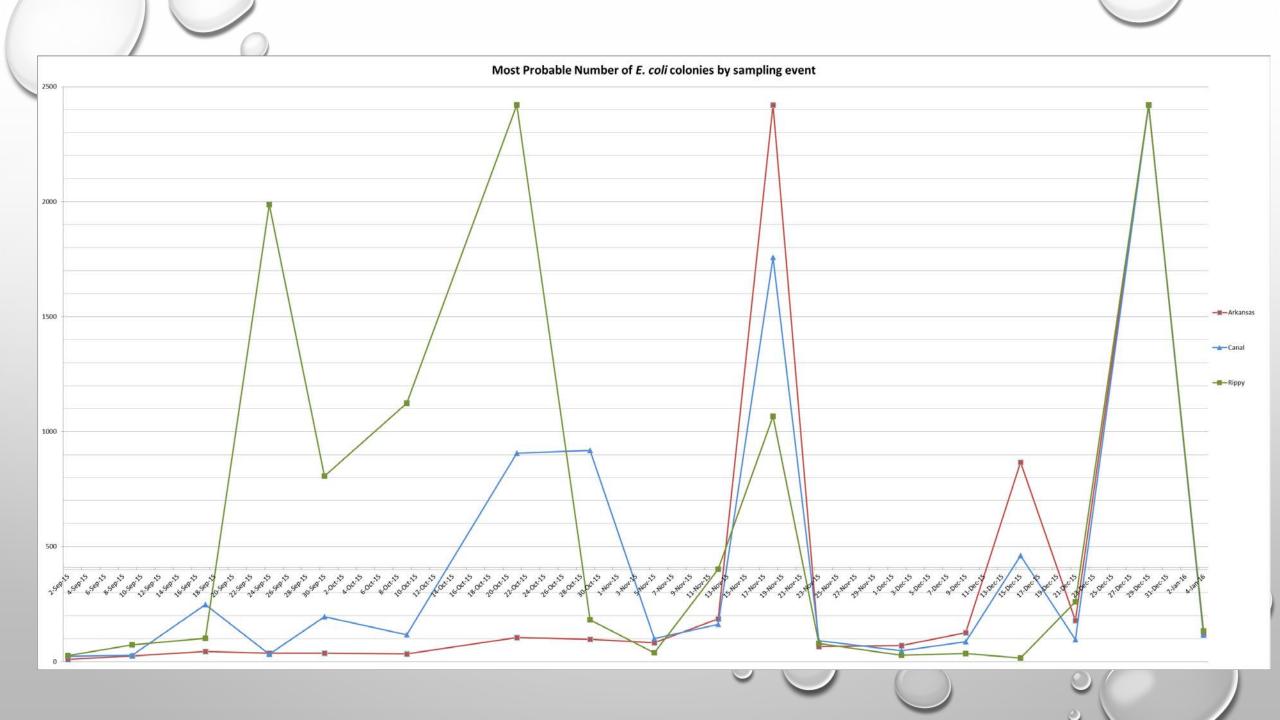
Mixing water sample with bacterial growth media

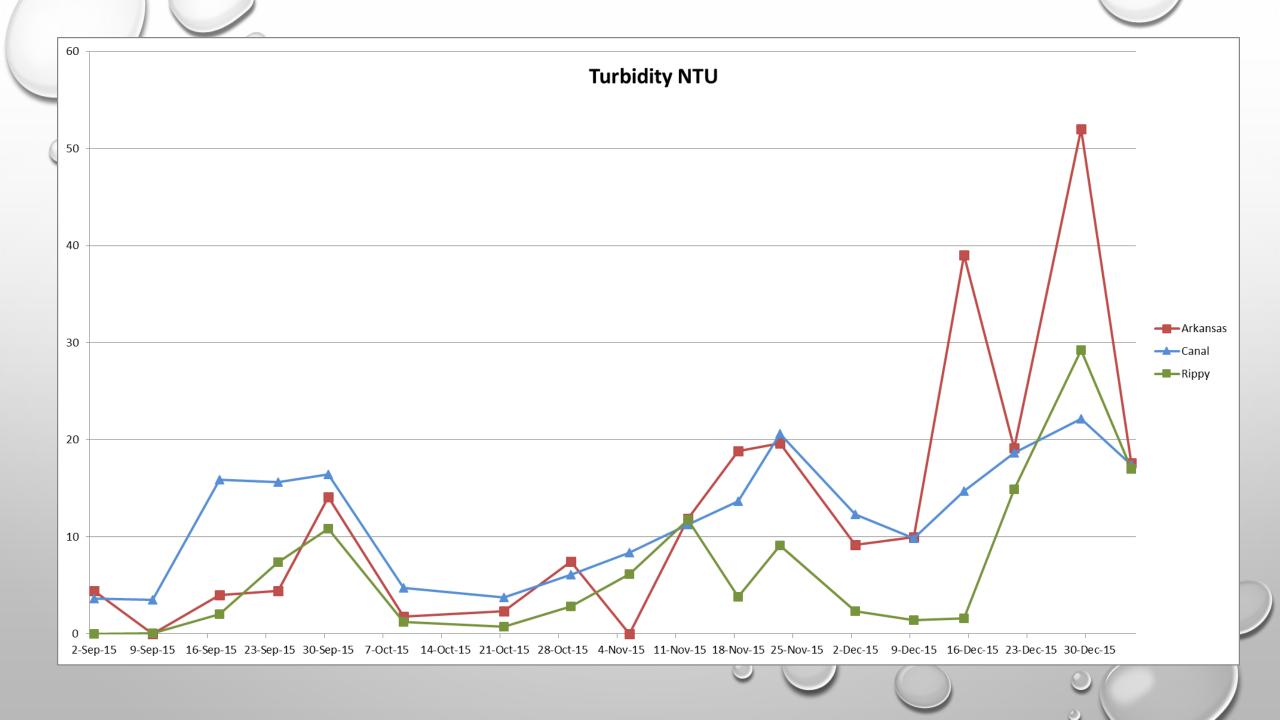


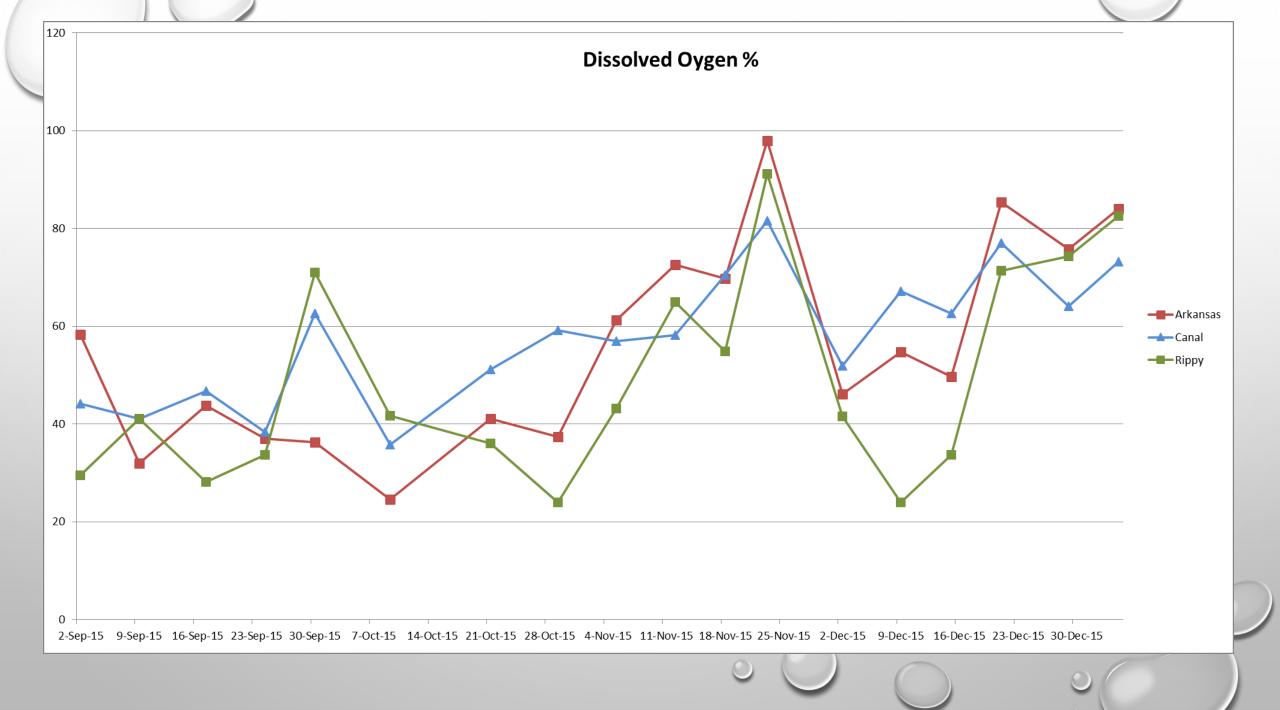


Trays incubated 24 hours and read for positive results.









## NEXT STEPS

- ADDING A SITE TO BETTER ISOLATE WHERE HIGH E. COLI IS OCCURRING
- PARTNER WILL RUN SOURCE TRACKING ON BACTERIAL SAMPLES
- PRESENT INITIAL SOURCE TRACKING RESULTS TO STEERING COMMITTEE
- CONTINUE WEEKLY MONITORING UNTIL SEPTEMBER 2016; REASSESS NEED
- NUTRIENT & PHYTOPLANKTON STUDY IS EXPECTED TO BEGIN THIS MONTH
- START SIMILAR PROGRAMS IN OTHER GULF COMMUNITY WATERSHEDS



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