FIELD INCLUSIVE WEEK: FINDING SUCCESS THROUGH FAILURE

Taylor Saucier

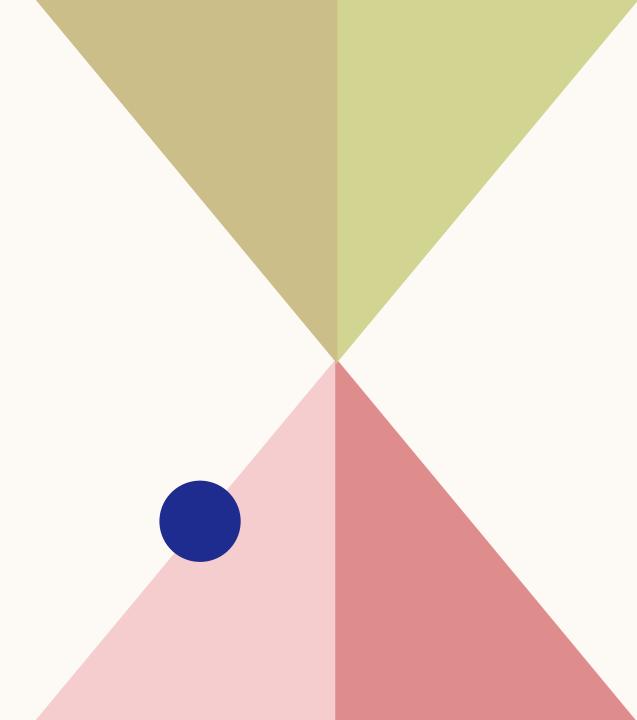


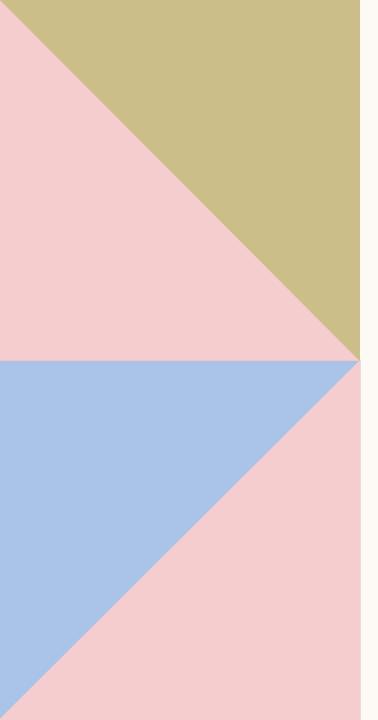
Field Inclusive, Inc.

Amplifying and Supporting Marginalized and Historically Excluded Biologists and Researchers

AGENDA

Who Am I? My Career Path Background Fieldwork Failures **Research Failures** Conclusion





WHO AM I?





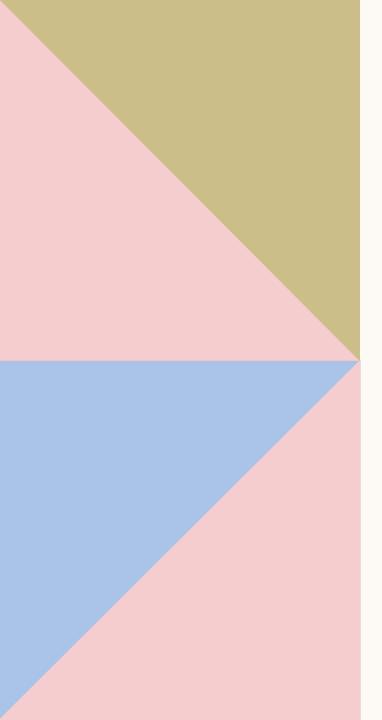


Mango



Peggy

Leslie



WHO AM I?













Got Bachelor's degree in Wildlife, Fisheries, and Aquaculture











MY CAREER PATH



MY CAREER PATH



MY CAREER PATH

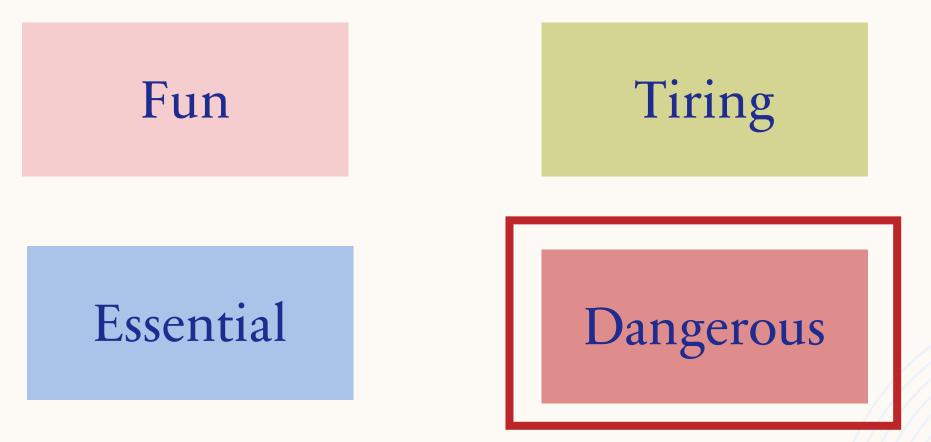




"MISTAKES ARE A FACT OF LIFE. IT IS THE RESPONSE TO ERROR THAT COUNTS."

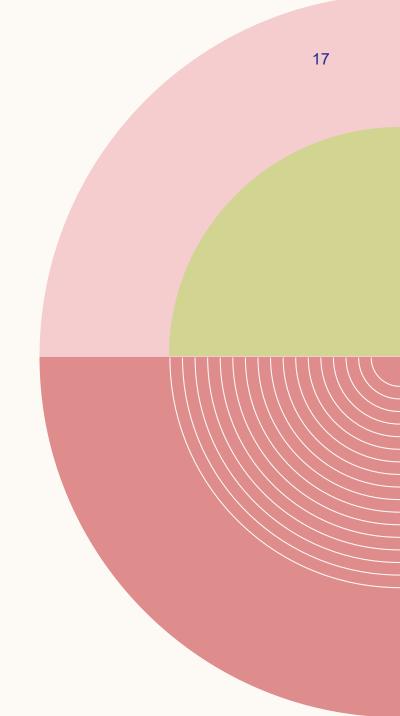
Nikki Giovanni

FIELDWORK IS...



FAILURES ARE INEVITABLE

- Science is full of trial-and-error
- Field work is no exception
- Failures in the field can lead to danger



FIELDWORK FAILURES



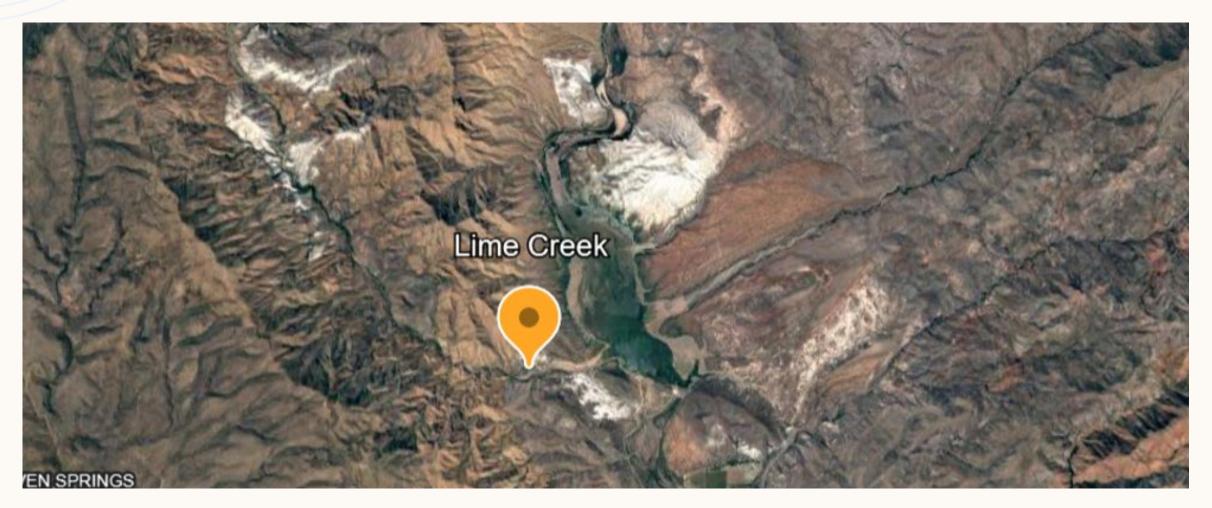
ARIZONA



NORTH OF PHOENIX



NEAR HORSESHOE RESERVOIR



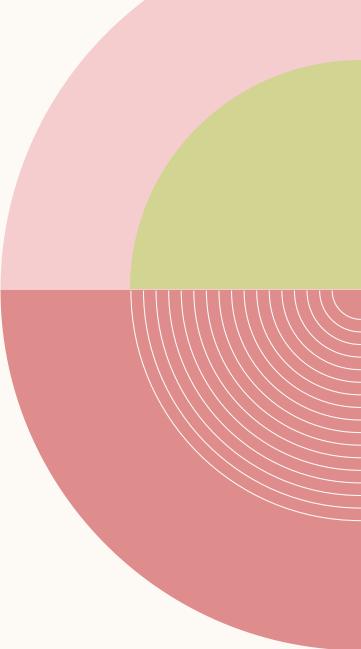
LIME CREEK



WINDING MOUNTAINOUS DIRT ROADS









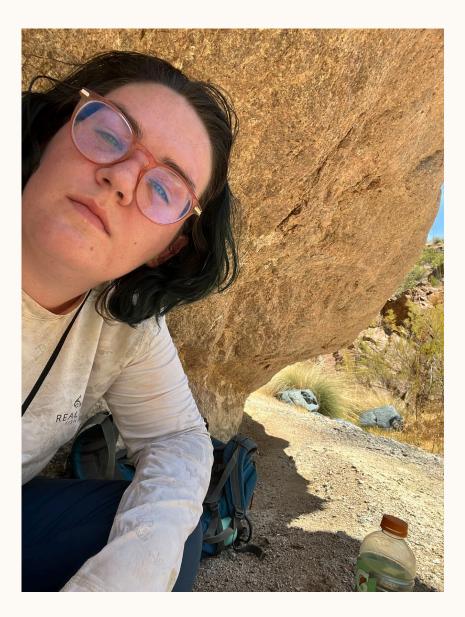


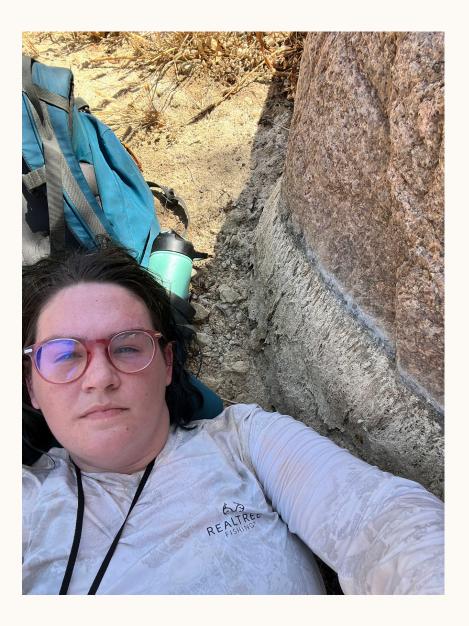


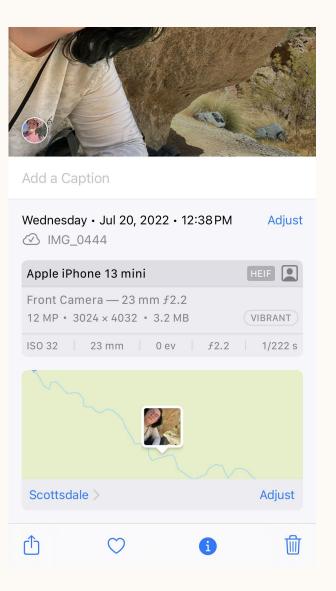


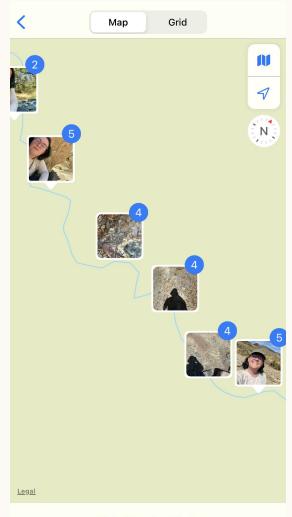












Hide Nearby Photos

I SURVIVED!



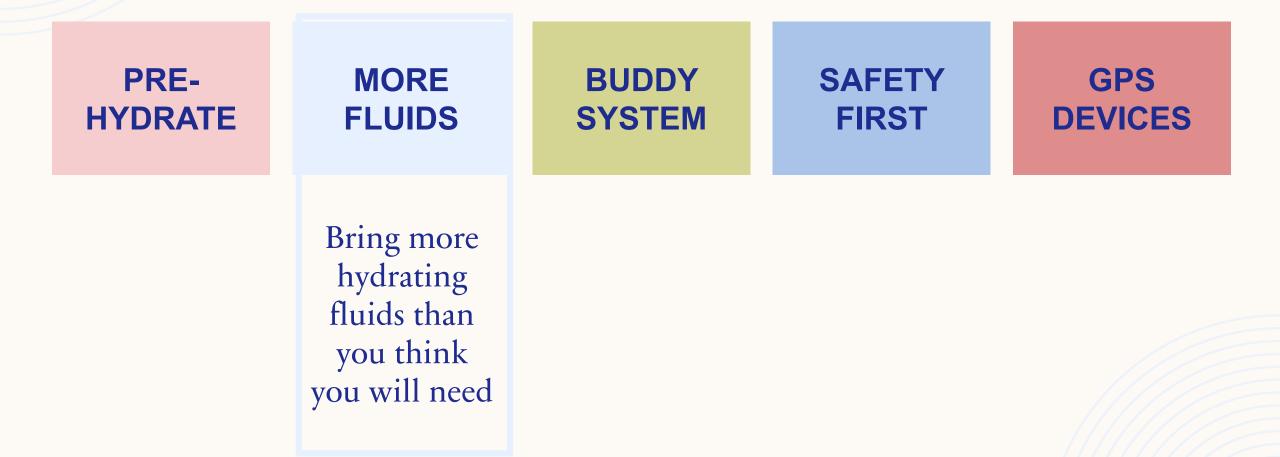
LESSONS LEARNED



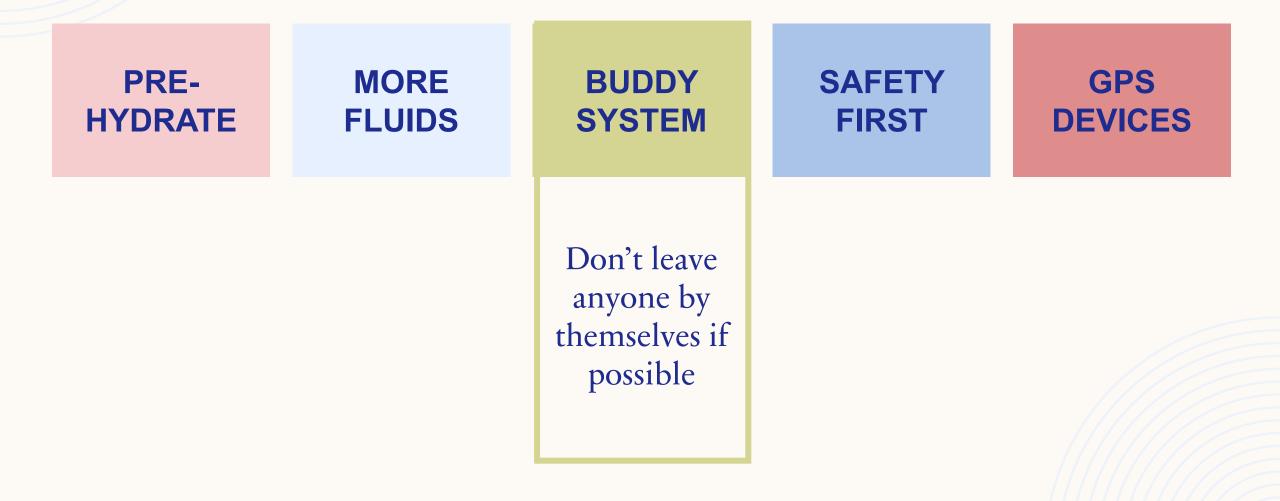
LESSONS LEARNED



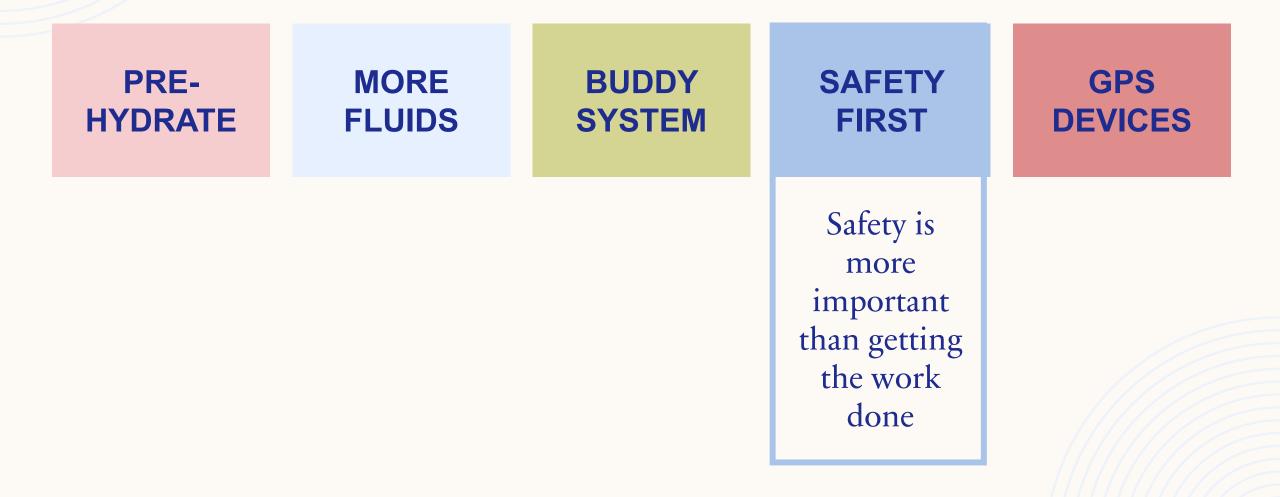




LESSONS LEARNED

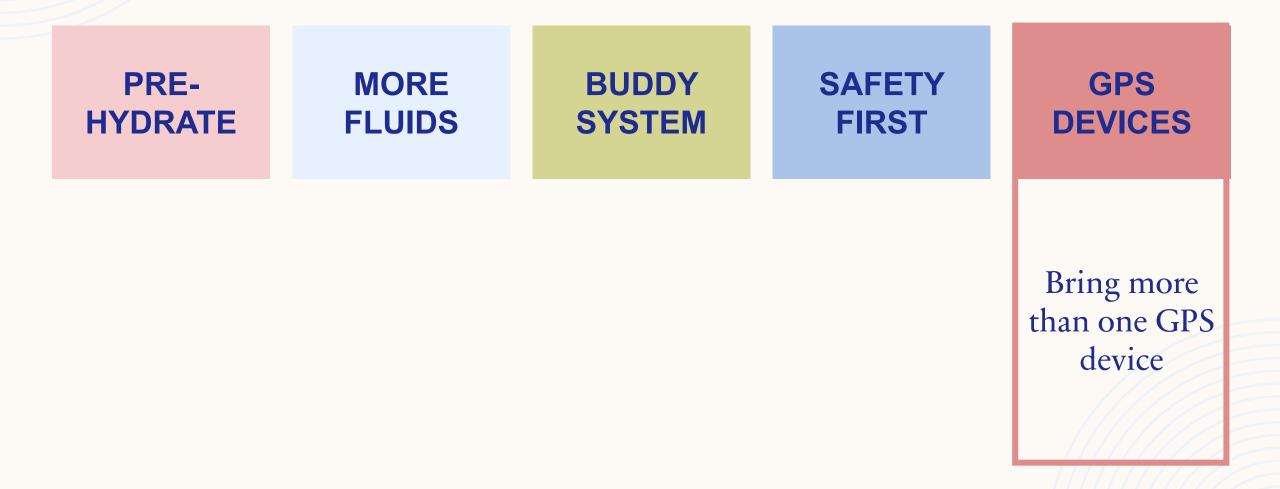


LESSONS LEARNED



Finding Success Through Failure

LESSONS LEARNED

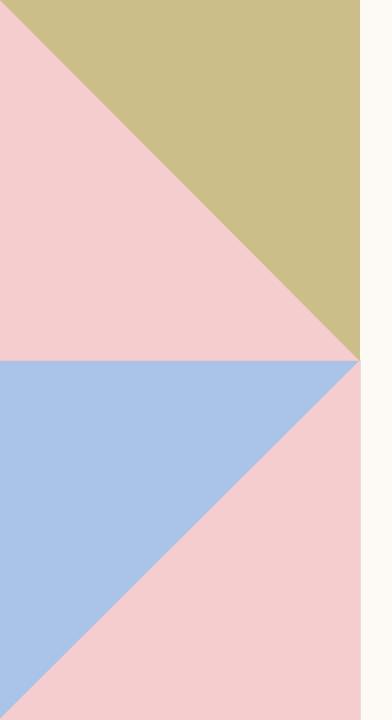


FIELDWORK FAILURES



Finding Success Through Failure





Finding Success Through Failure



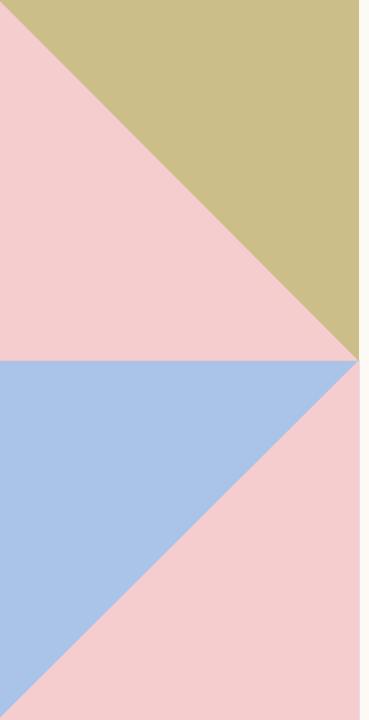
GAS CAP OVERBOARD

- Co-worker was experienced swimmer and volunteered to get it
- It was hot outside (>100F)
- But the water was cold (~60F)









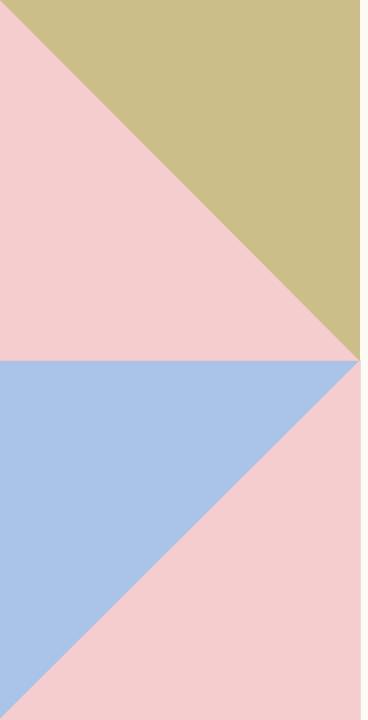
LESSONS LEARNED

- Prioritize safety
- Weigh your options carefully before making decisions

FIELDWORK FAILURES



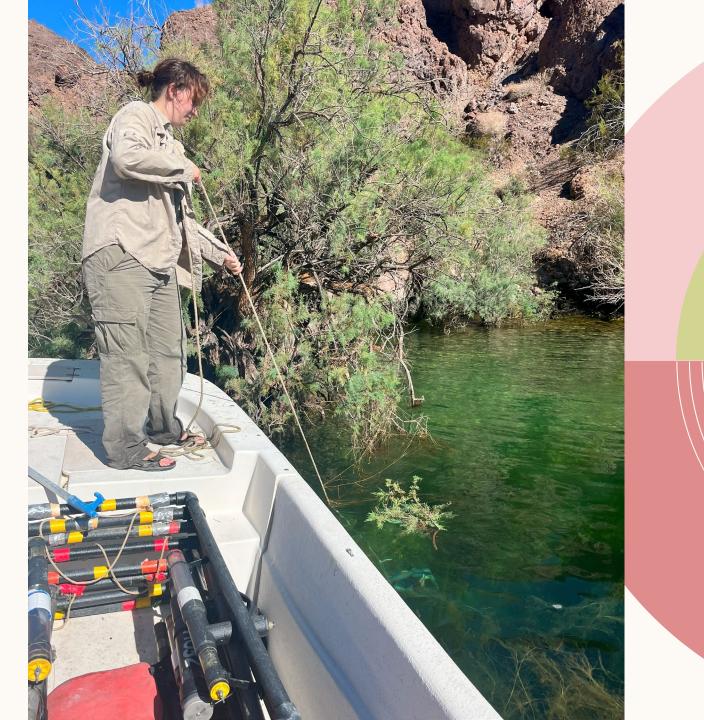
Out of Gas (Sorta)



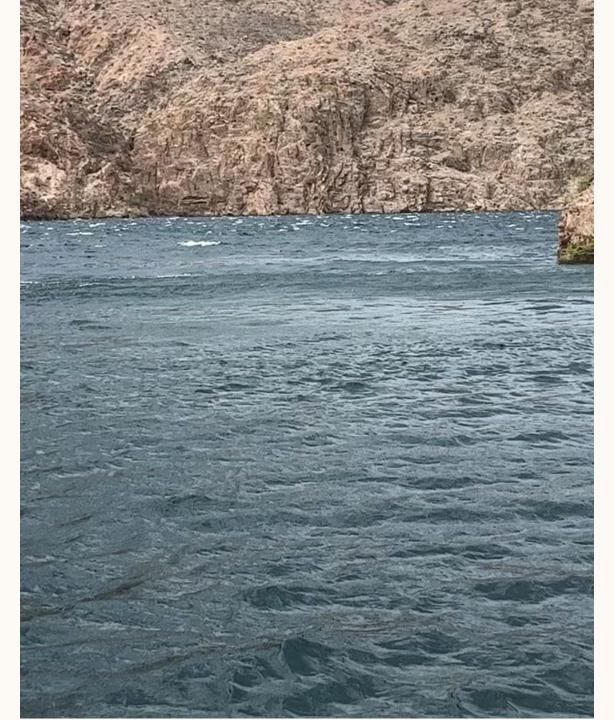
BOATS

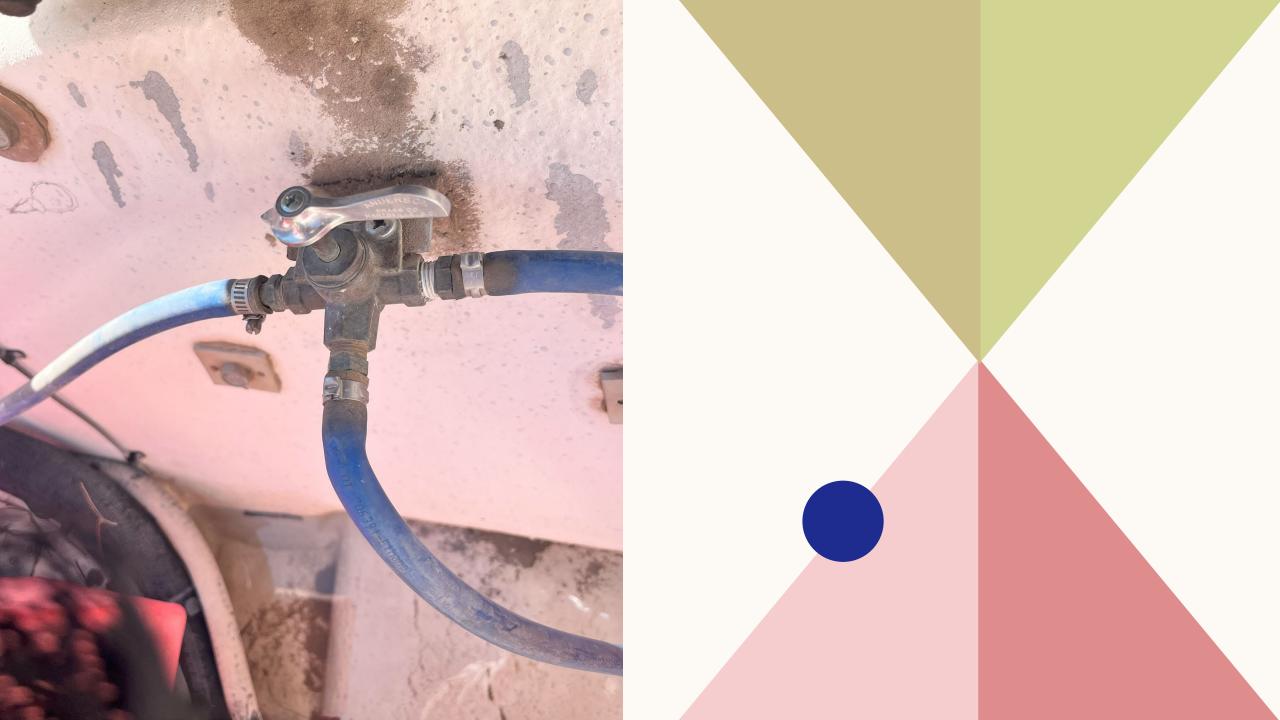
- I didn't grow up driving boats
- Learned on the job
- Lots of new skills:
 - Trailering,
 - Launching
 - Driving

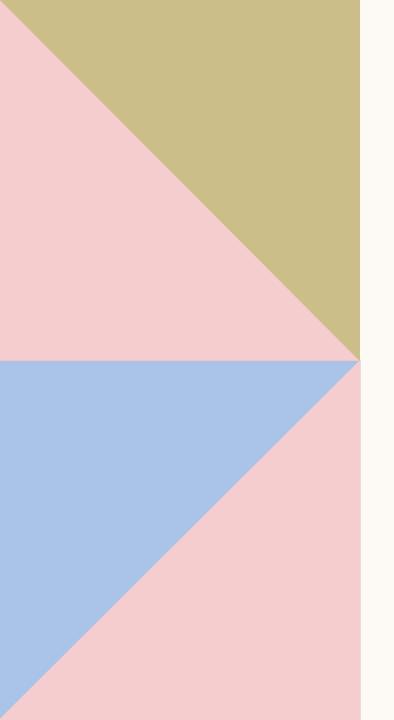
Finding Success Through Failure

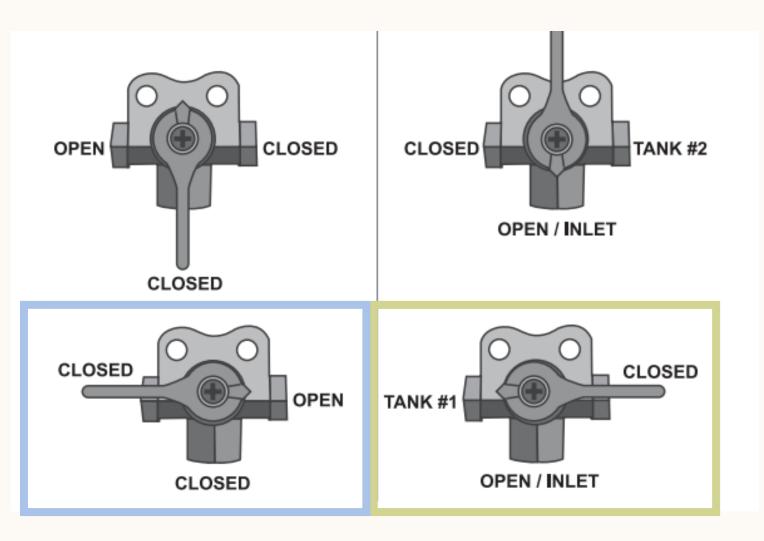


Finding Success Through Failure

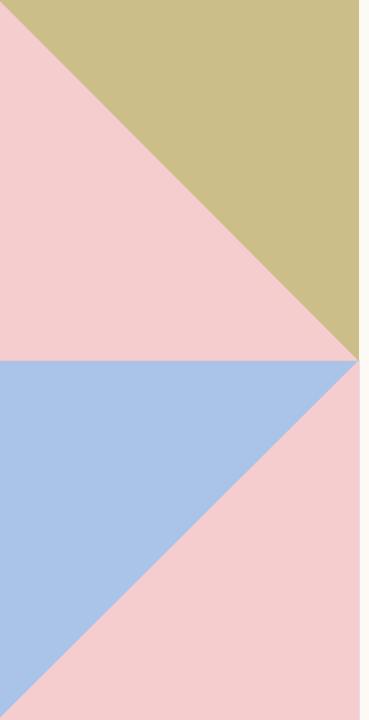








- Flagged down a recreational boater
- Got towed back to the marina
- Finally got the engine primed and running



LESSONS LEARNED

- Get proper training
- Know your equipment

CONCLUSIONS

LOST IN THE DESERT

- Pre-hydrate
- More fluids
- Buddy system
- Safety first
- GPS devices

OVERBOARD

- Safety first
- Weigh your options

OUT OF GAS (SORTA)

- Proper training
- Know your equipment

FAILURES IN RESEARCH

RESEARCH GOALS



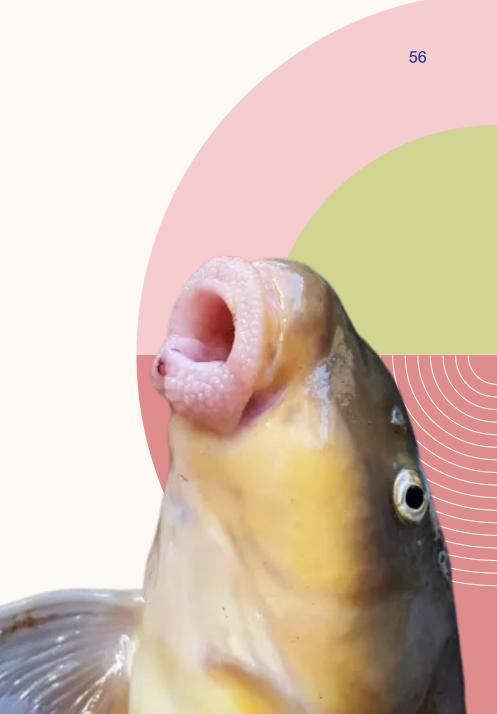


Reproduction

Can we get these fish to spawn in captivity?

SONORA SUCKER

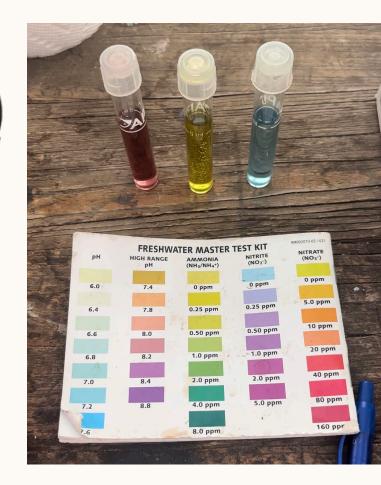
- Medium-sized fish in Catostomidae
- Generalist omnivore
- Occurs in streams
- Utilizes riffles and pools
- Least concern
- Non-game species
- Little research exists







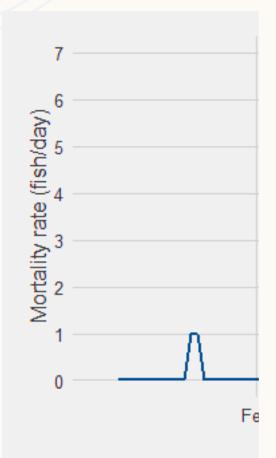
DAILY CHECKS



Sense: DO200A

- Water Quality:
 - Dissolved Oxygen (DO)
 - Temperature (°C)
 - pH
 - Ammonia (NH_3/NH_4+)
 - Nitrite (NO₂-)
- Survival Checks

MORTALITIES



FISH CONDITION





CAUSE? AEROMONAS

- Swabbed the hemorrhaging spot on a live fish
- Brought in 1 moribund fish and 1 dead fish for testing
- Lab confirmed Aeromonas hydrophila

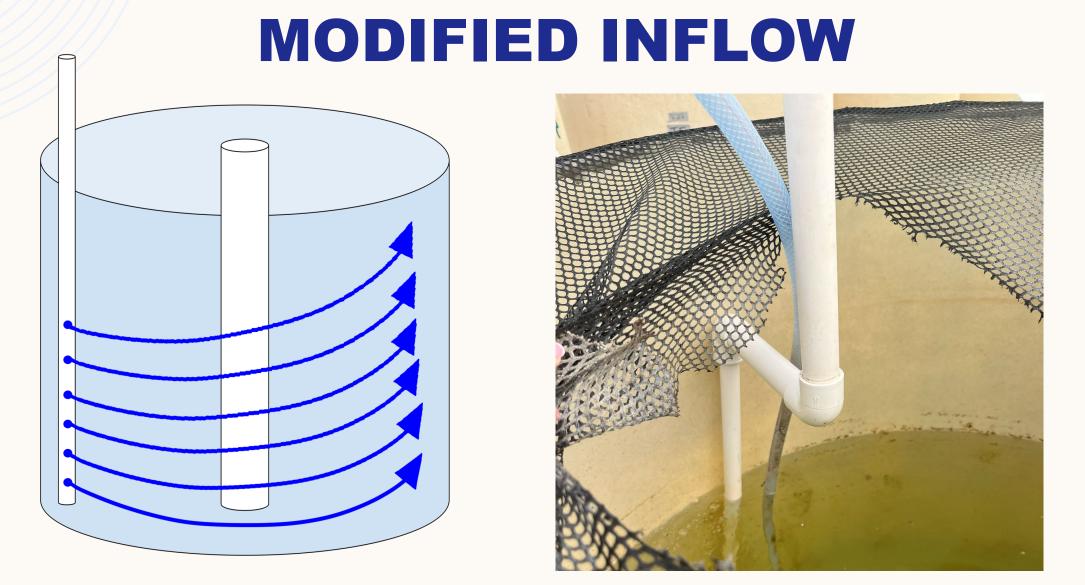
STRESSORS (OR FAILURES)



Aeromonas is widely found in aquaculture but can cause significant mortality with predisposing stressors

POTENTIAL STRESSOR: FLOW





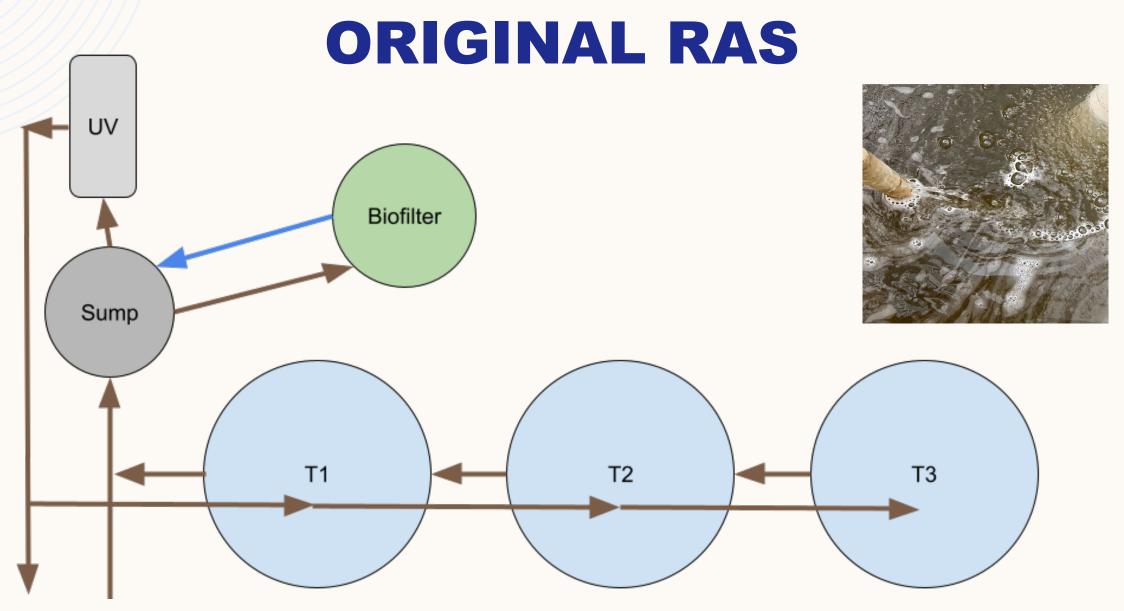
POTENTIAL STRESSOR: FIBERGLASS



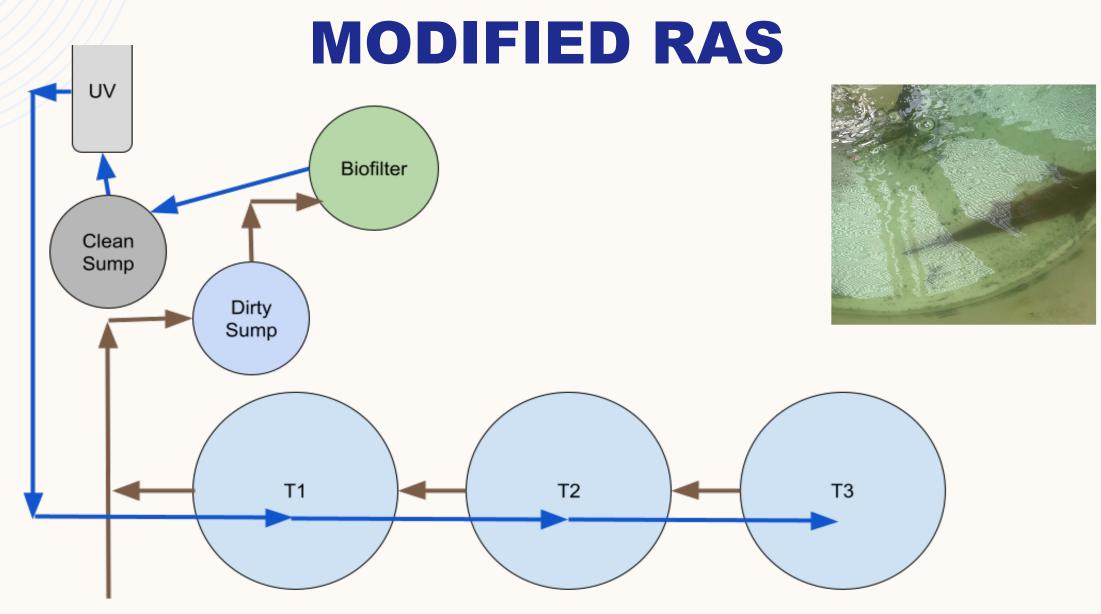
IRRITATION FROM FIBERGLASS TANKS



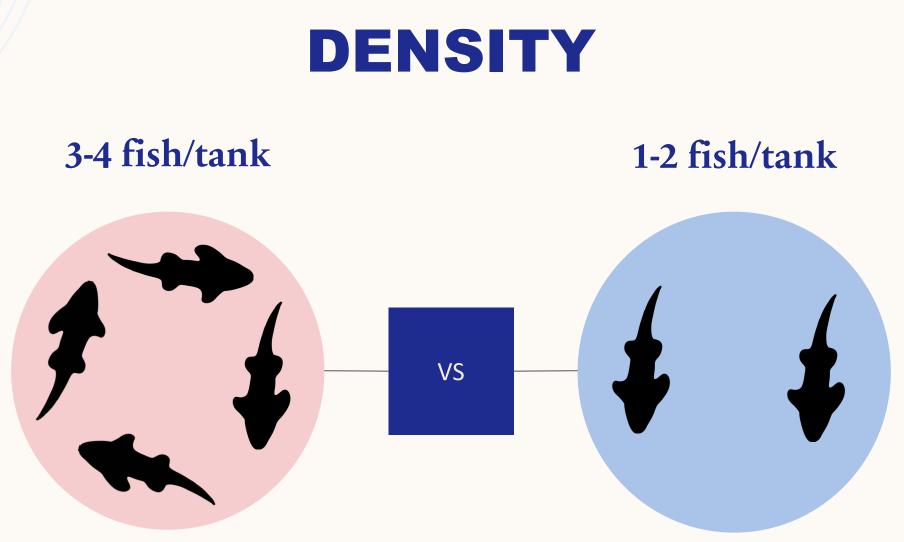
POTENTIAL STRESSOR:



Finding Success Through Failure



POTENTIAL STRESSOR: DENSITY



POTENTIAL STRESSOR: FEEDING

FEEDING ISSUE

Fish wouldn't eat anything we fed them until...

How mobile are fish populations? Diel movement, population turnover, and site fidelity in suckers

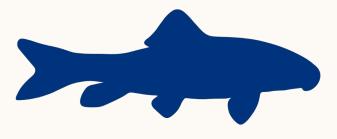
I started feeding them at night

LESSONS LEARNED



FAILURES INTO OPPORTUNITIES

- Presented at the AFS National meeting
- Made lots of connections
- Got insight into possible solutions
- Learned new things



CONCLUSIONS

FAILURES ARE...

- inevitable
- not inherently a bad thing
- opportunities to learn

THANK YOU

Taylor Saucier



