Coordination Meeting 06/28/2021

TSSD Utah Lake Limnocorral Study

BYU Weekly Schedule

Monday

8:30am-12pm: Collect water samples, probe vertical profiles, and drone footage

12pm-4pm: Sample analysis at TSSD

4pm-5:30pm: Upload data and clean equipment

Tuesday

9am-10am: Weekly coordination meeting

10am-3pm ICP analysis at EAL

11am-5pm Jar tests*

Wednesday

9am-12pm: Collect spatially comprehensive probe samples in corrals and drone footage

1pm-5pm: SRP analysis at EAL, upload data and clean equipment

Thursday

Equipment maintenance, preliminary data analysis and file maintenance, training, drone practice, additional coordination meetings, etc

Friday

9am-1pm: Collect probe data tracks and drone footage

2pm-5pm: Probe calibration, upload data and clean equipment

Current Test List

TSSD

Filtered: TDS, Total N, Ammonia, Nitrate, Nitrite, Reactive P,

Unfiltered: COD, Total P, Reactive P, TSS/VSS, TOC

EAL

Filtered: SRP, ICP

Digested: ICP

Questions to answer for the work plan

- What is the treatment plan for each corral?
- Do the geochemistry samples also need to be split for toxin testing or just the ecological samples?

Last Week

- Friday was the first time we got good turbidity data on our probe due to issues ordering the calibration standard. We don’t have good turbidity data inside the corrals yet.
- pH probe had to be warrantied. New one should be here and calibrated for the sampling trip on 06/30, but all of our previous pH data is unusable
- We will not be using our Nitrate or Ammonia ISE sensors because they are not accurate at the levels we’re seeing from the lab data
- Took water from outside of corrals to do jar tests, tried adding calcite but the dose was too low based on the SRP results from that experiment,--we’ll increase the dose this week. Trying to get aluminum salts.

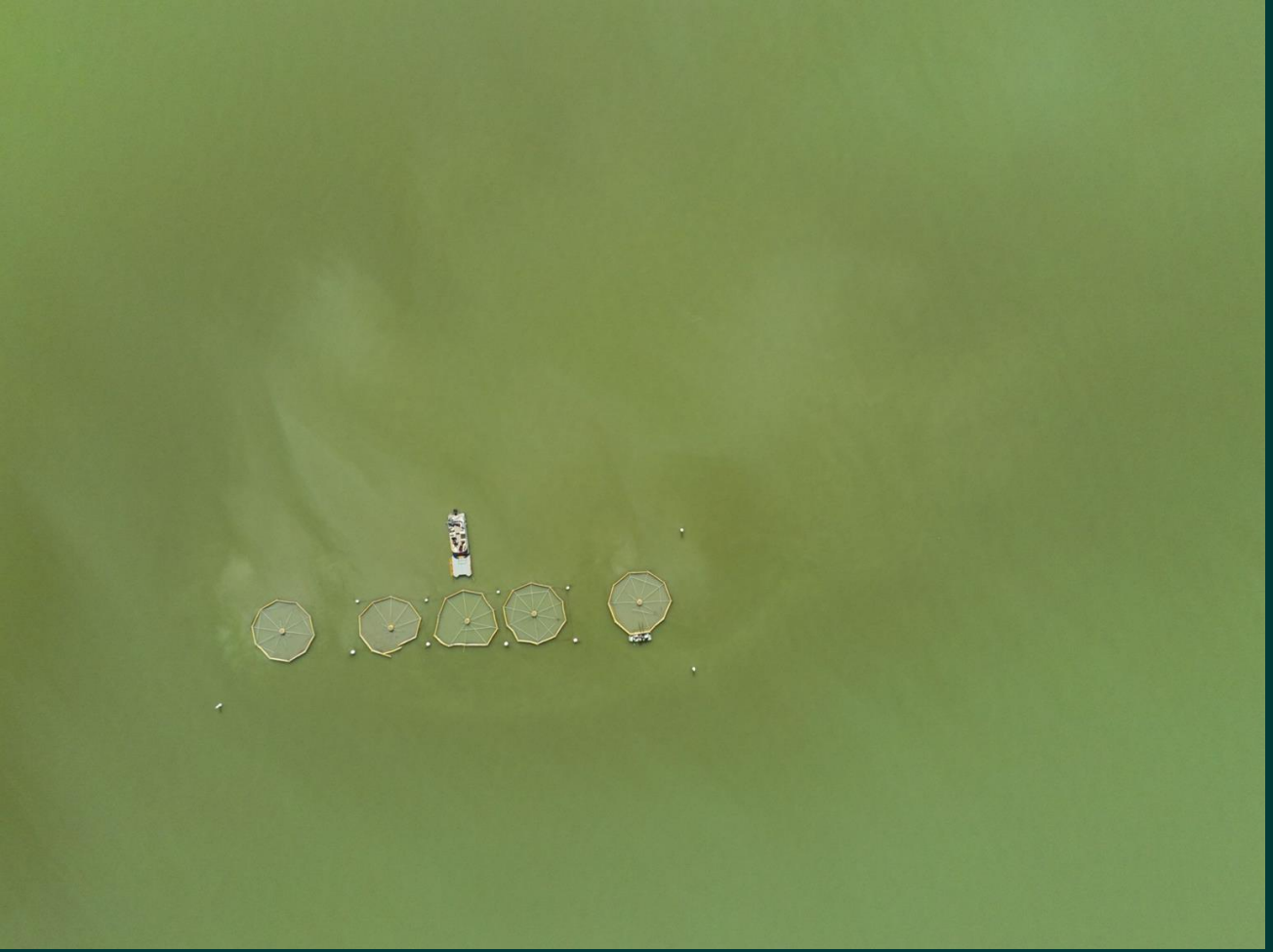
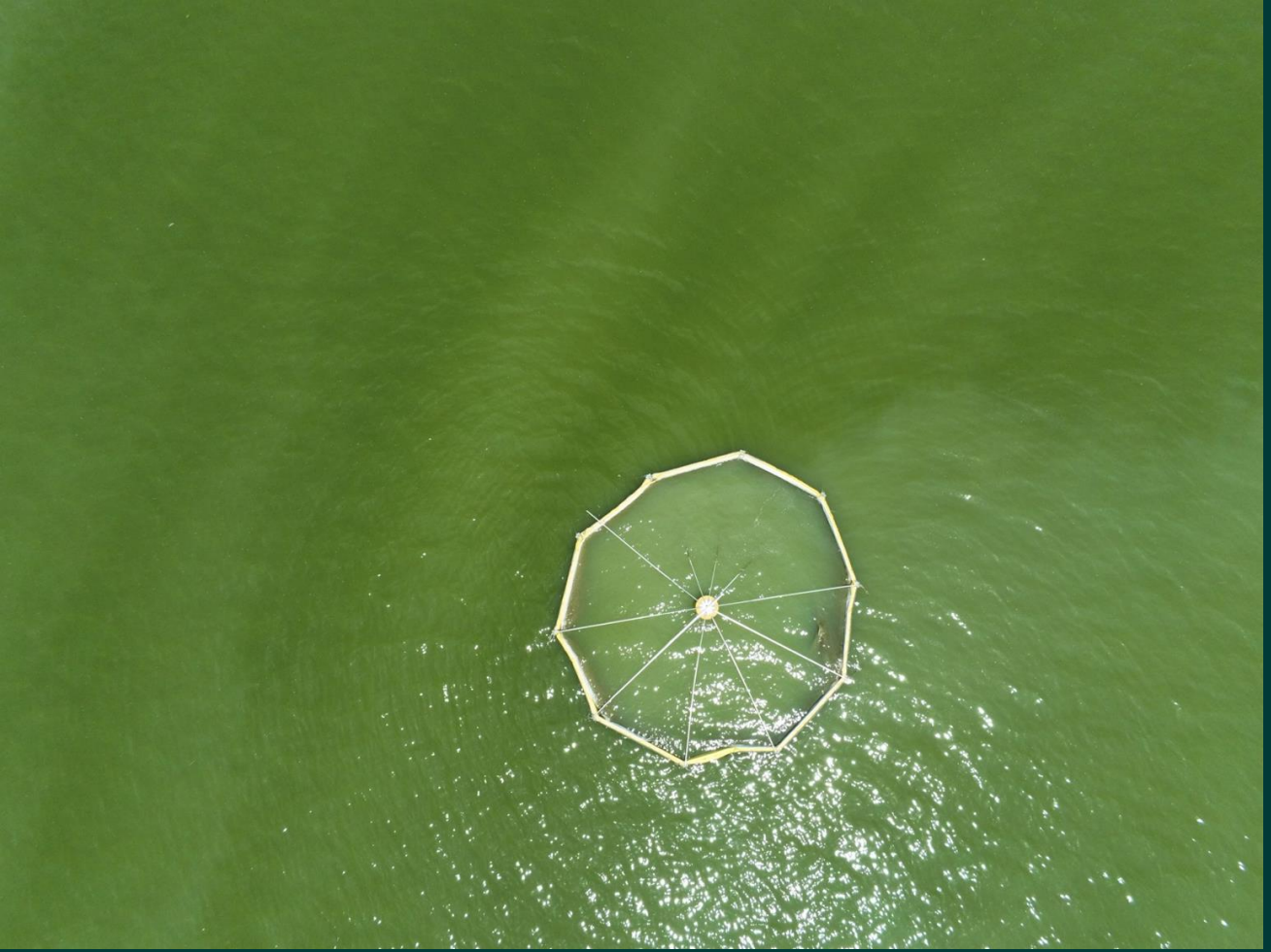
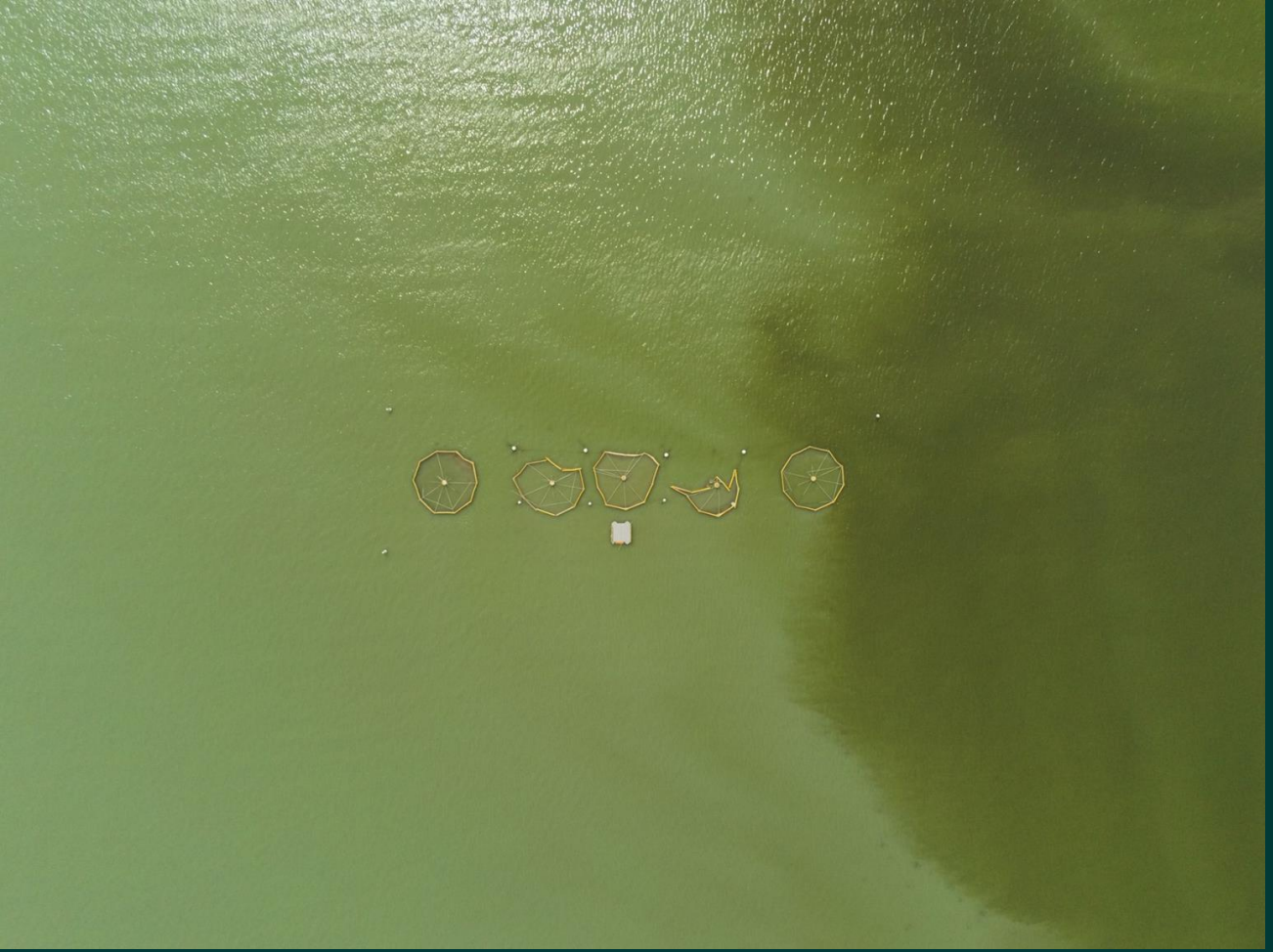


Photo taken on 06/14 around 10am

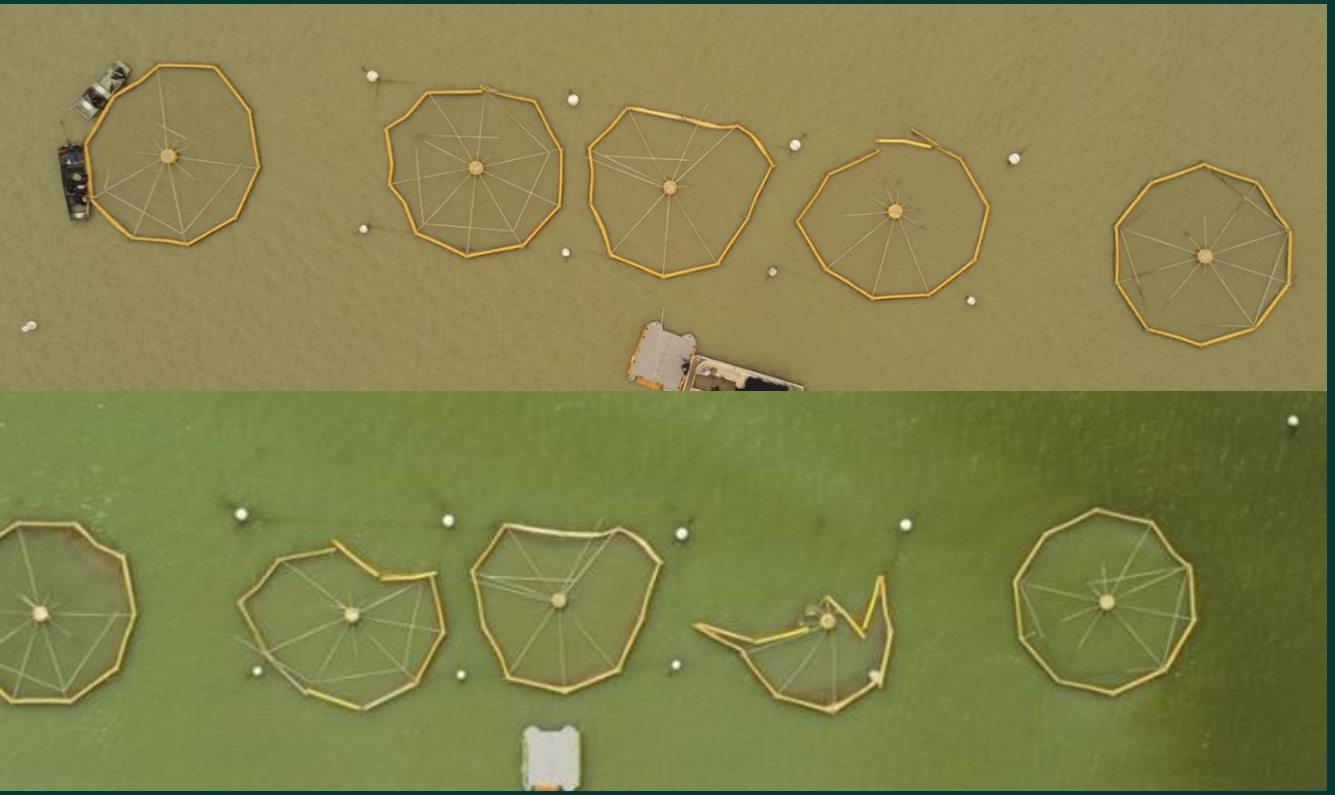
TSSD Utah Lake Limnocorral Study



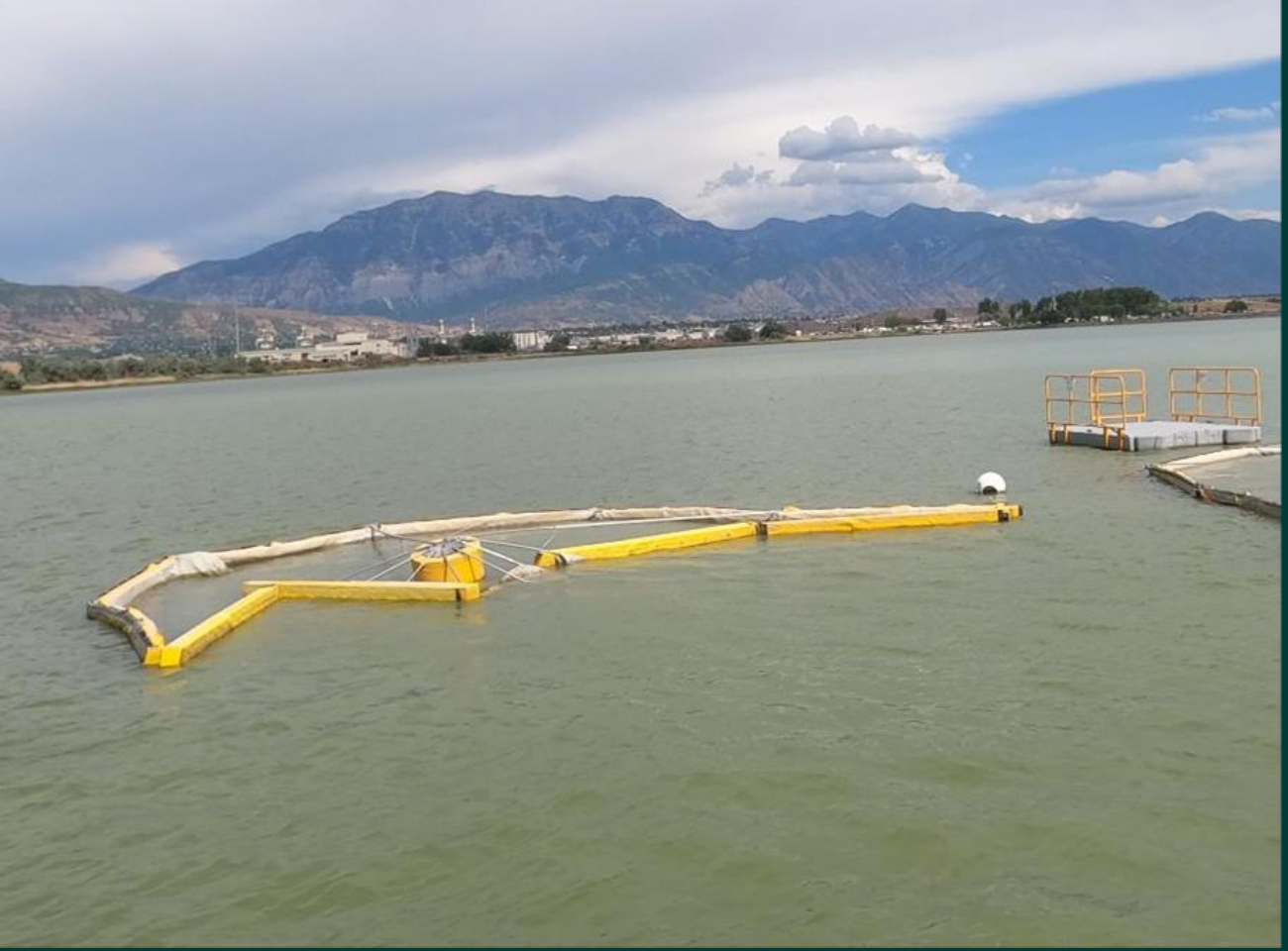
Corral 1 on 06/14 shows plume of sediment (maybe?) escaping from the corral (note that it’s on the side where the skirt is detached from the float) and some interesting wave patterns.



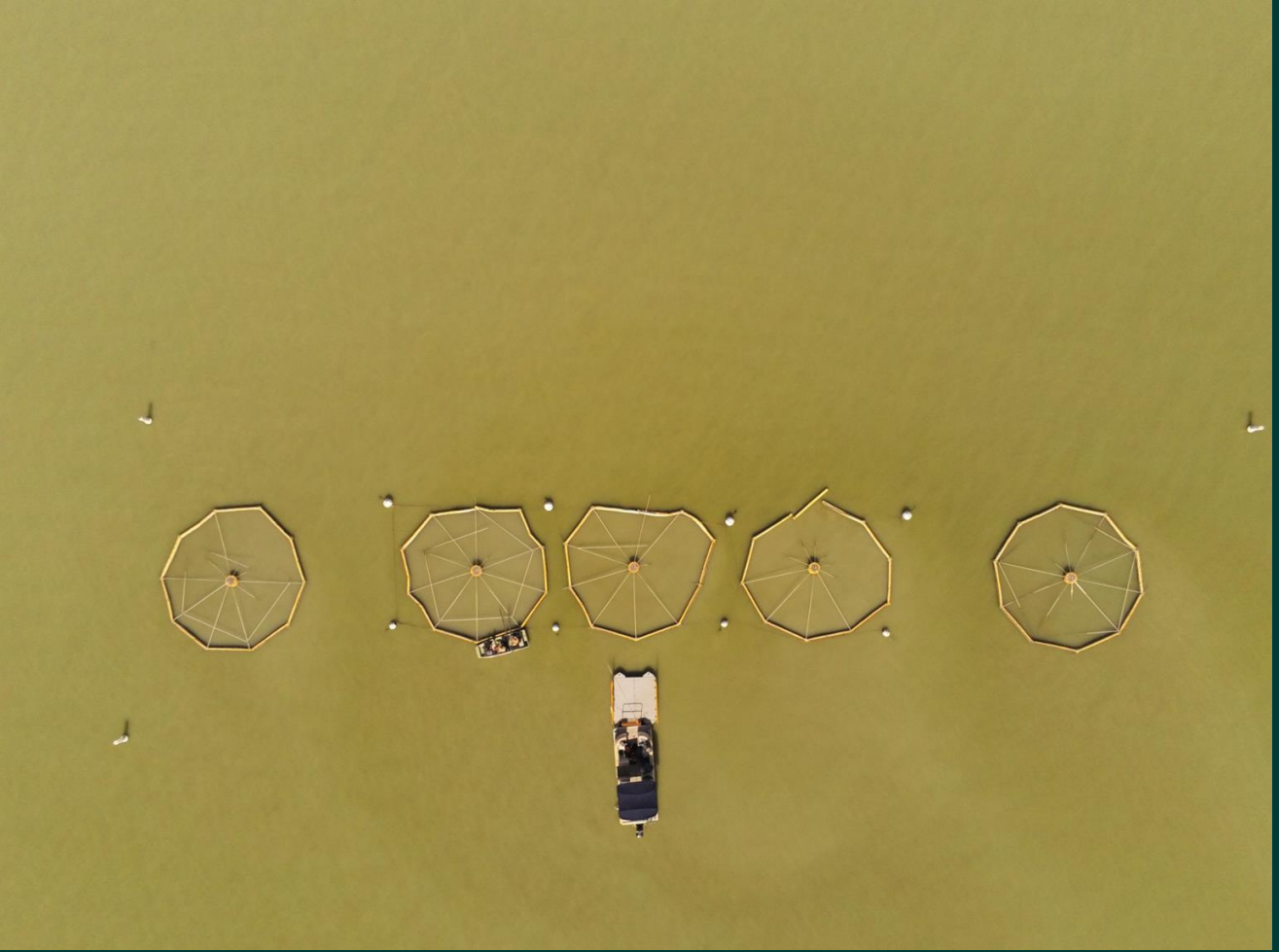
Taken around 4pm on 06/24. First time we have seen the effluent plume reaching the offshore corrals. Windy day.



The 23rd to the 24th. They didn’t like the windstorm…



Closer picture of the damage to Corral 2.



Taken 06/23. It kind of looks like there is sediment leaking from the most broken corrals?