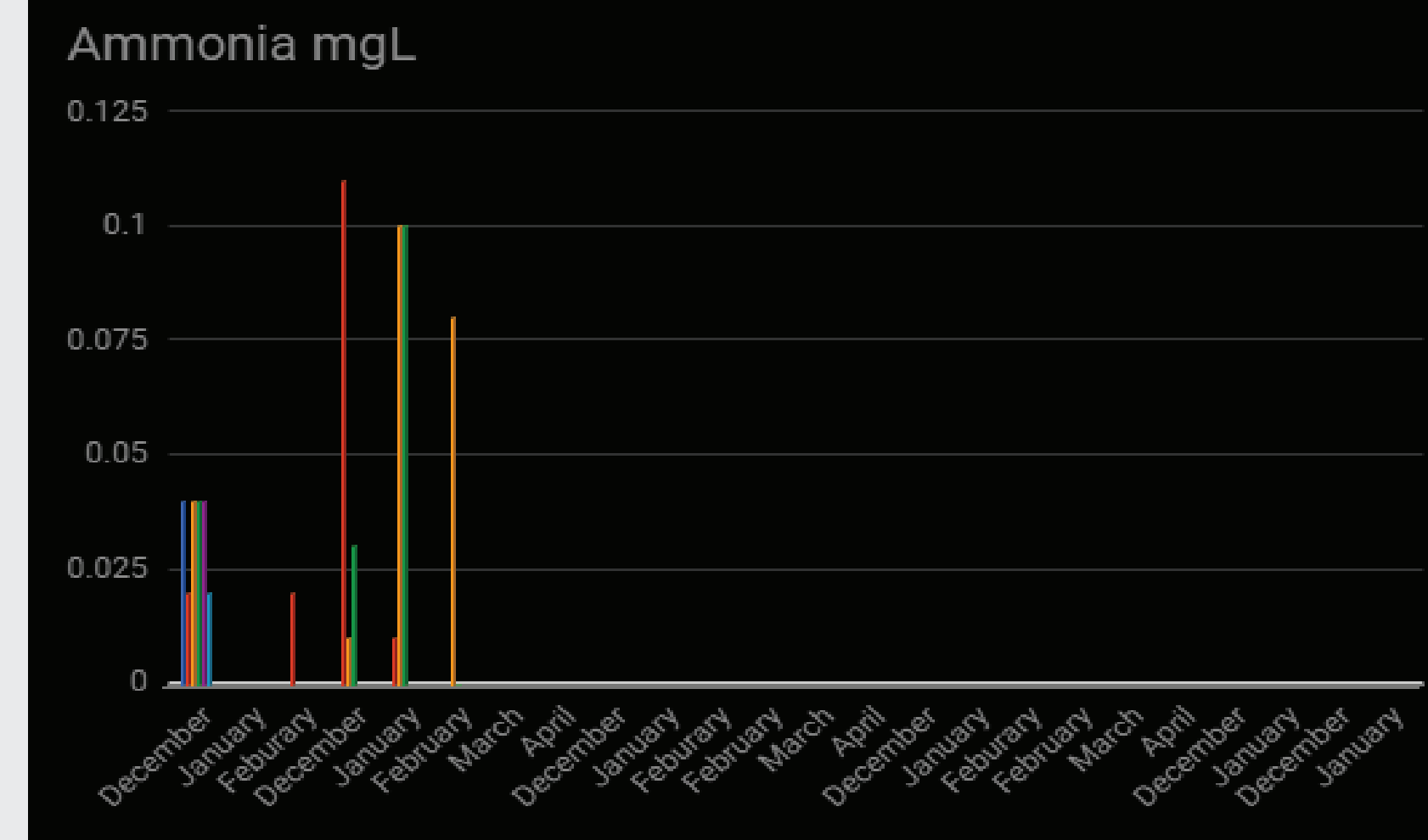


# MOHAWK WATER ECOLOGY TEAM

## AMMONIA

- It's a nutrient for growing things
- Things that affect ammonia are sewage and runoff
- If its too low plants don't grow, but if its too high then things start dying
- Acceptable levels: .001 - .02 mg/l
- Results we have been getting are around .001 - .02 mg/l

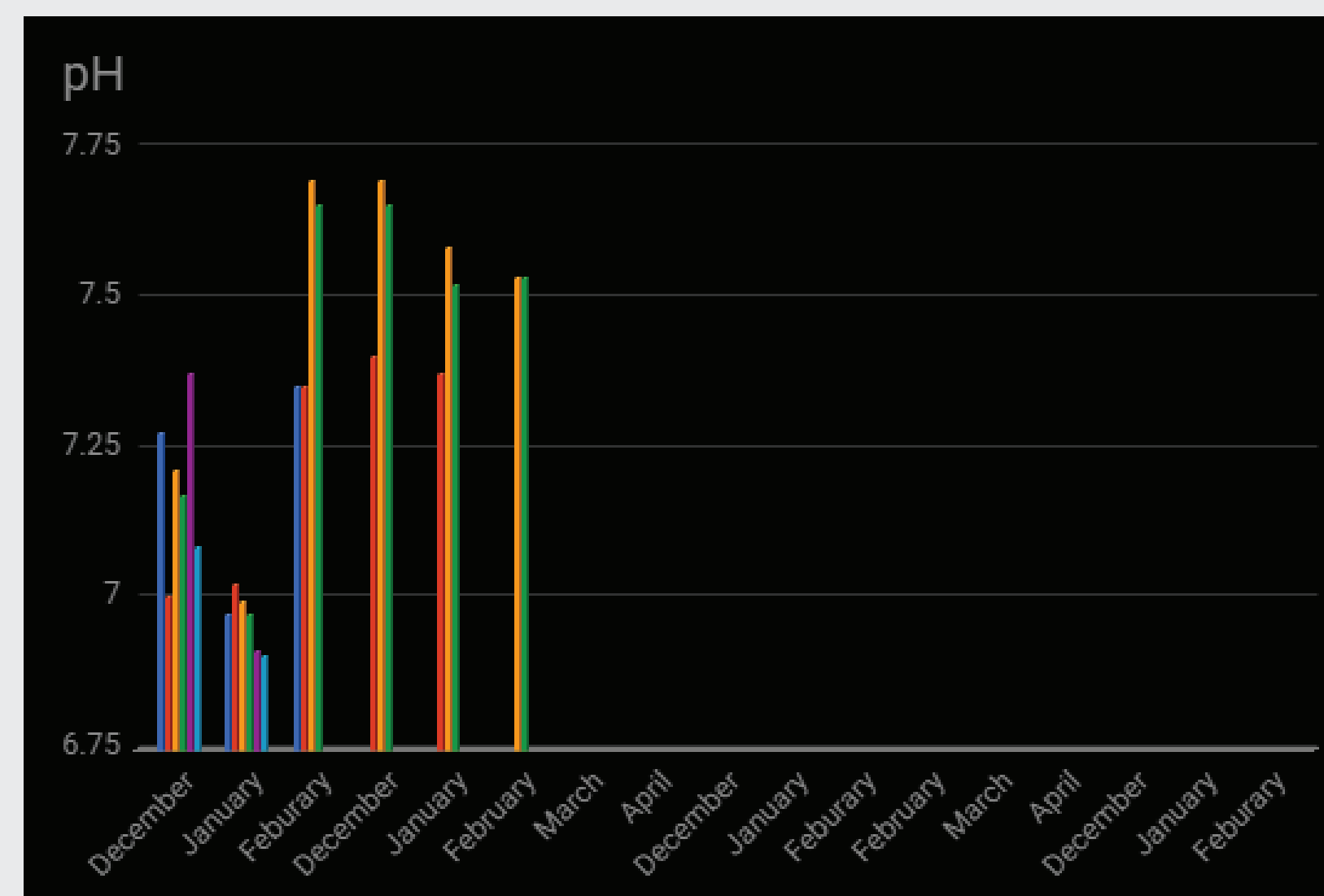


## DISSOLVED OXYGEN

- Measures the amount of oxygen dissolved in the water
- DO enables aquatic animals and plants to survive
- DO enters the water through waterfalls, surface agitation and photosynthesis
- DO is affected through temperature, pressure, and turbidity.
- Safe DO levels are 10 mg/L or 10ppm and higher.
- DO is tested by adding chemicals and then titrating the solution and multiplying the resulting number by 0.02

## PH

- pH is the measurement of the hydrogen ion (how acidic water is)
- The pH scale goes from 1-14, with 7 being neutral
- 1-6 is acidic, while 8-14 is basic
- We usually find results between 6.5-8.5
- If its too unbalanced, it can hurt aquatic life or humans
- To test pH, you use a meter dip



## TEMPERATURE

- How warm or cold the water is (using Celsius)
- Affects water quality and aquatic life
- Acceptable ranges are below 18°C
- Temperature can be affected through turbidity
- Measured with a thermometer
- Should be one of the first tests done

