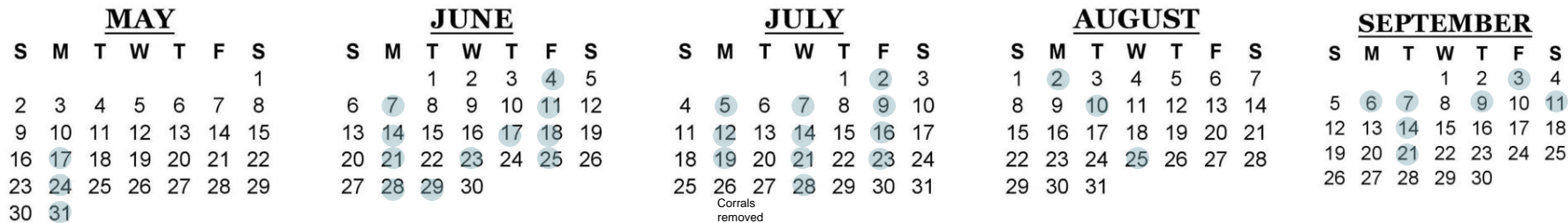


Coordination Meeting

09/22/2021

Sampling Overview



35 days of data on the lake
 134 Water Samples
 9,549 Probe Measurements

Parameters Measured

Lab Analysis

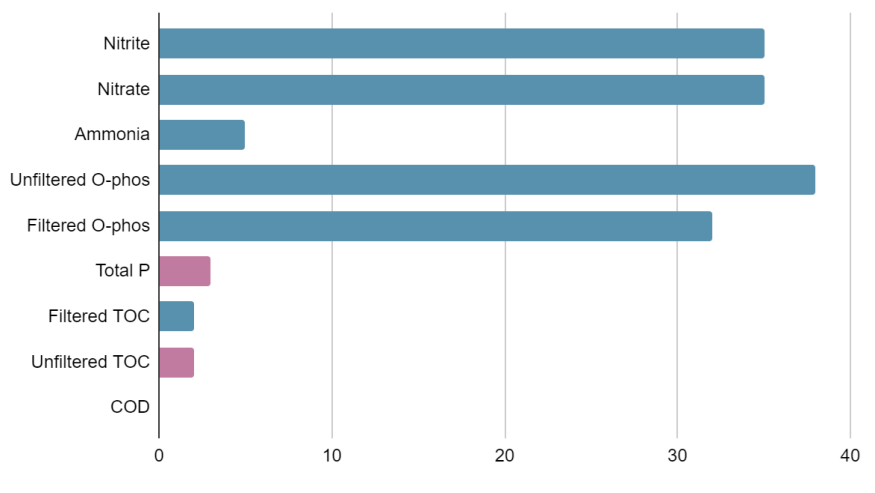
- Nitrite
- Nitrate
- Ammonia
- Unfiltered Reactive Phosphorus
- Filtered Reactive Phosphorus
- Total Phosphorus
- Filtered TOC
- Unfiltered TOC
- COD
- TSS
- VSS
- TDS
- Digested and Filtered ICP (Cations)

Probe Readings

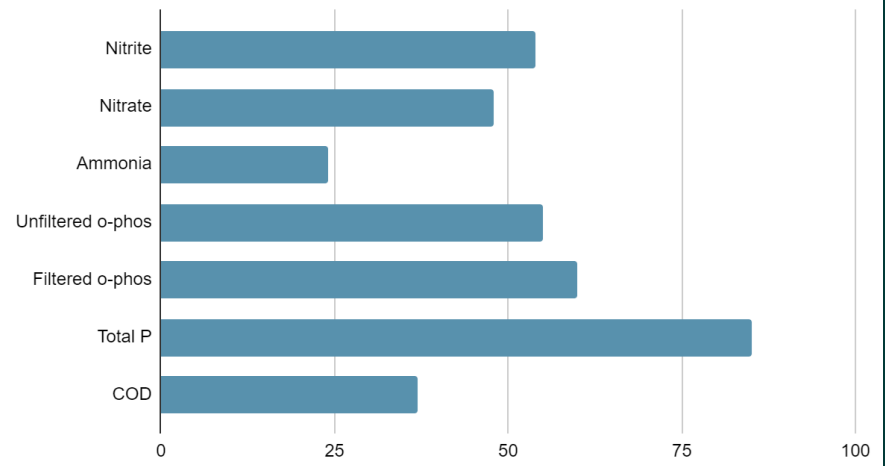
- Conductivity
- TDS
- Temperature
- Chlorophyll
- Turbidity
- Dissolved Oxygen

Cost: ~\$67/sample

Percent of Samples Out of Range



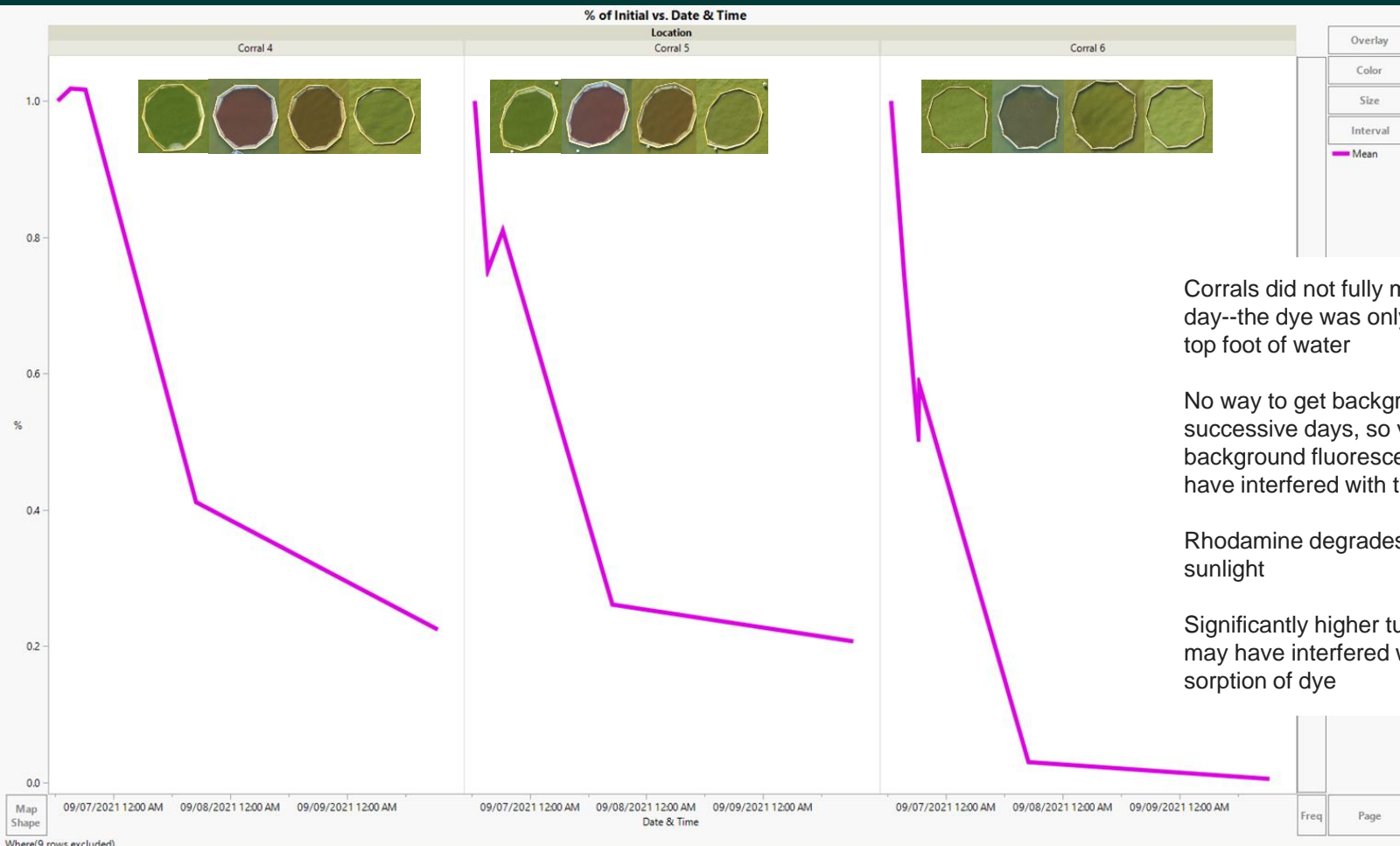
QC Pass Rate (%)



*pink = over measuring range

Corral Behavior

Rhodamine Dilution Experiment



Corrals did not fully mix until the next day--the dye was only mixing with the top foot of water

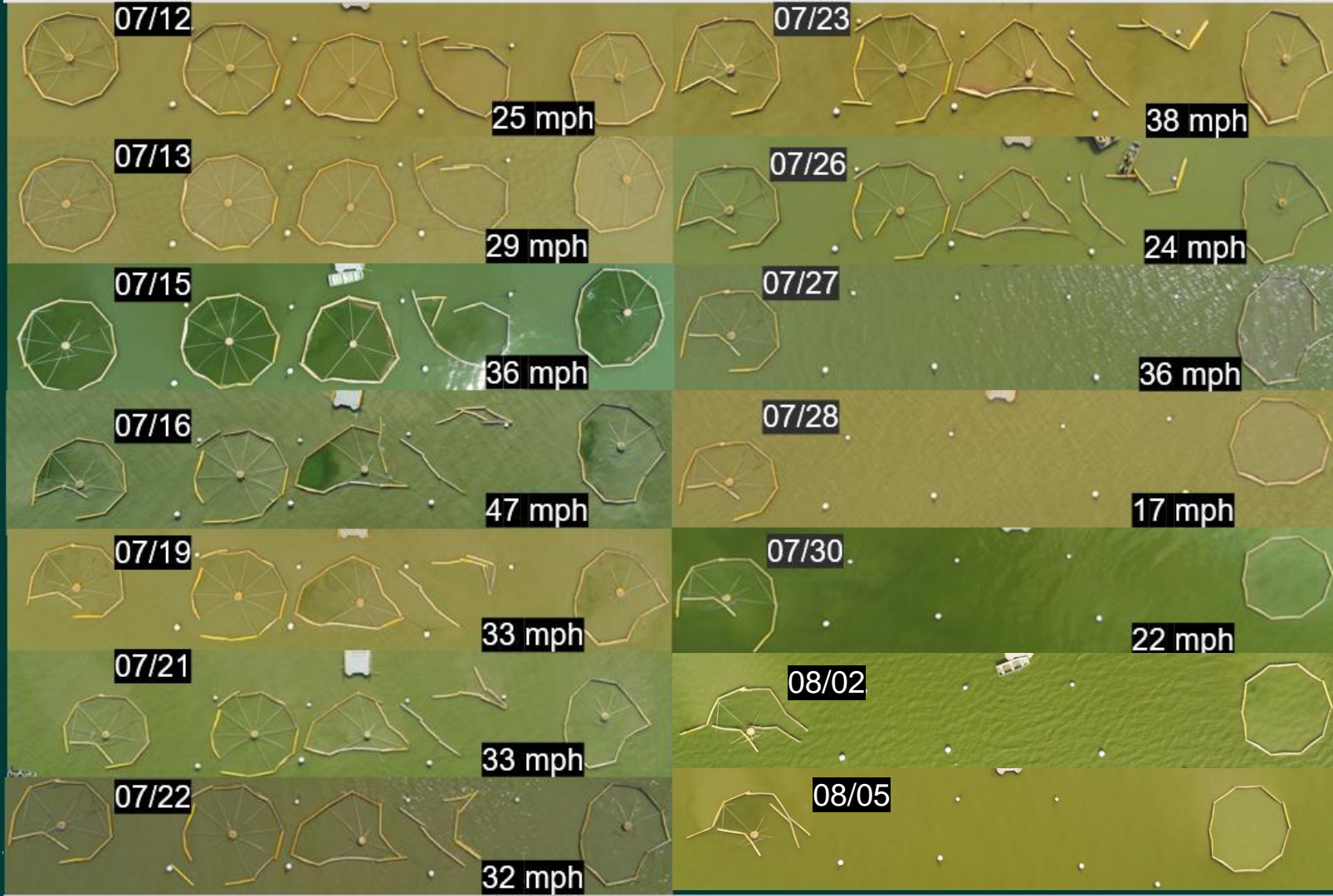
No way to get background levels for successive days, so varying background fluorescence levels may have interfered with this data

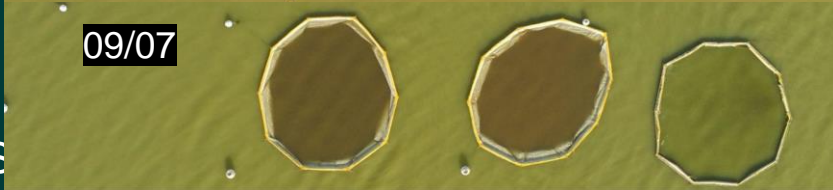
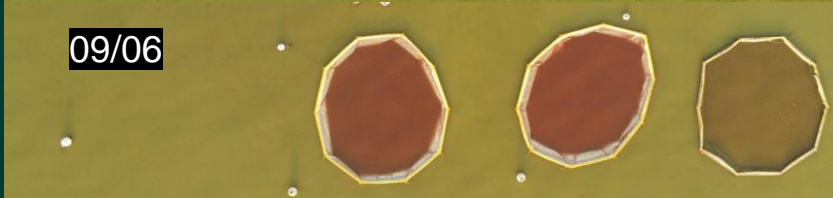
Rhodamine degrades quickly in sunlight

Significantly higher turbidity in Corral 6 may have interfered with color and sorption of dye

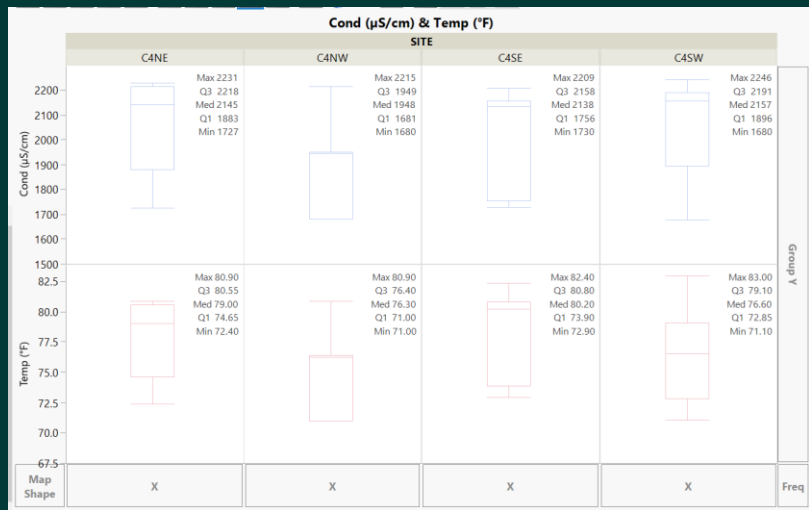
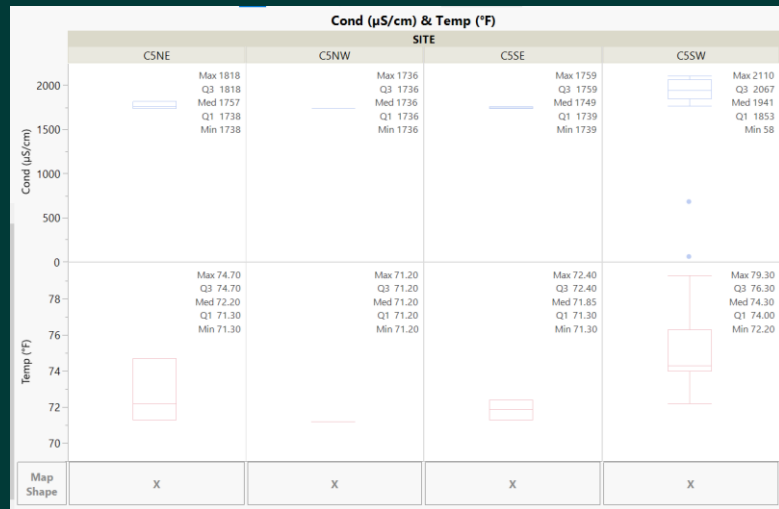
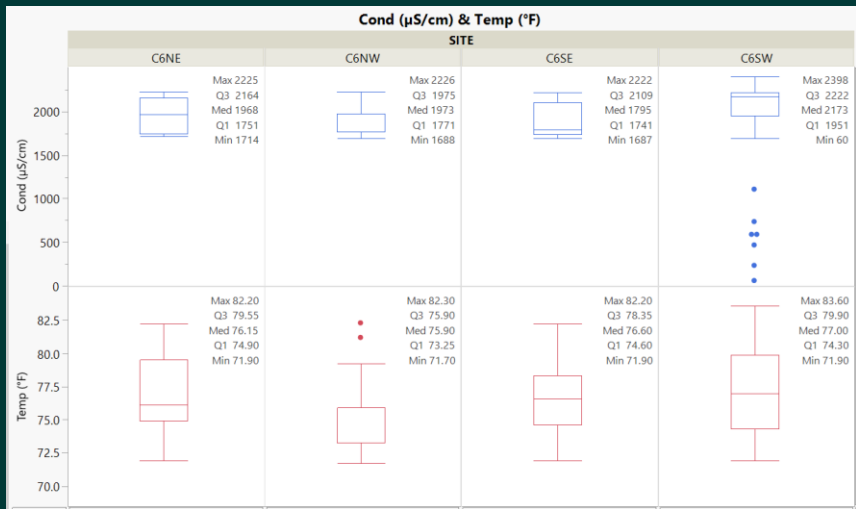


TS





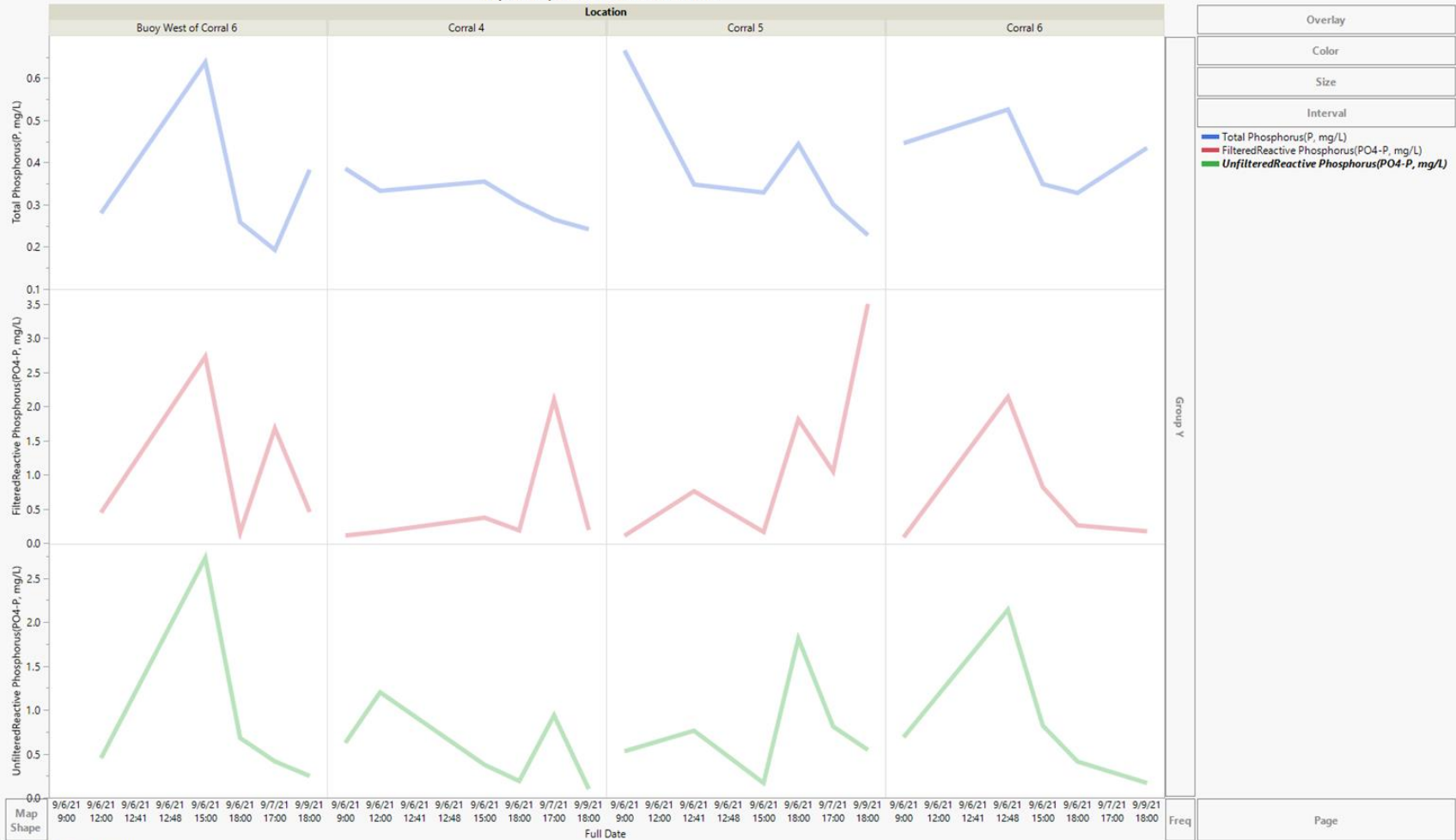
TSS



Spatial variation in conductivity and temperature in corrals 6, 5, and 4

Time Series Data

TP, Filtr. RP, UnFiltr. RP vs. Date & Time



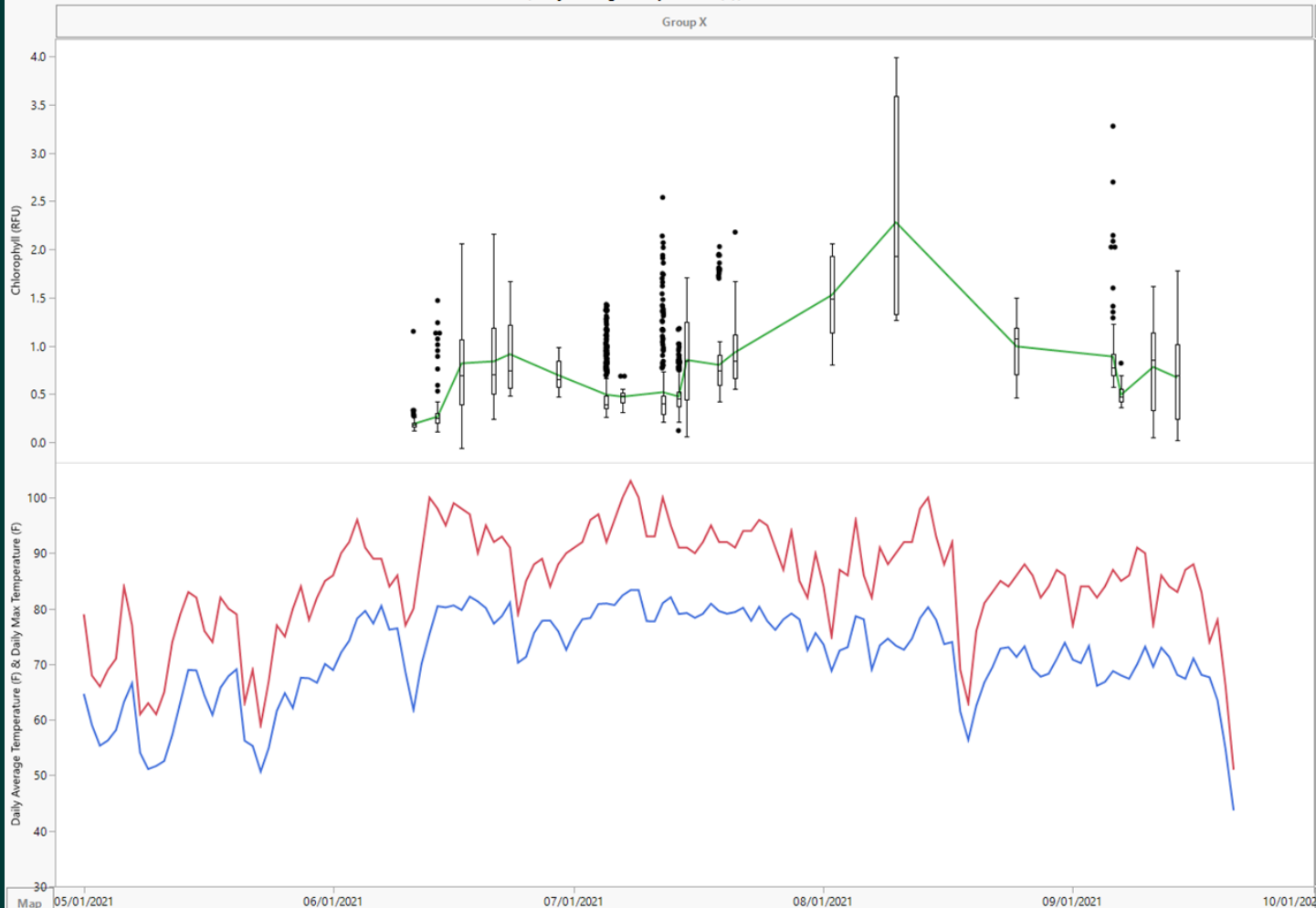
Overlay
Color
Size
Interval
<ul style="list-style-type: none"> — Total Phosphorus(P, mg/L) — Filtered Reactive Phosphorus(PO4-P, mg/L) — Unfiltered Reactive Phosphorus(PO4-P, mg/L)
Group Y
Page

Mean(Daily Average Temperature (F)) & 5 more vs. Date



Wrap	Overlay
	Color
	Size
	Interval
	<ul style="list-style-type: none"> Mean(Daily Average Temperature (F)) Mean(Daily Max Temperature (F)) Mean(Daily Max Wind Speed (mph)) Mean(Daily Average Wind Speed (mph)) Mean(TSS(mg/L)) Mean(FilteredReactive Phosphorus(PO4-P, mg/L))
λ dthoug	
Freq	Page

Mean(Daily Average Temperature (F)) & 2 more vs. Date



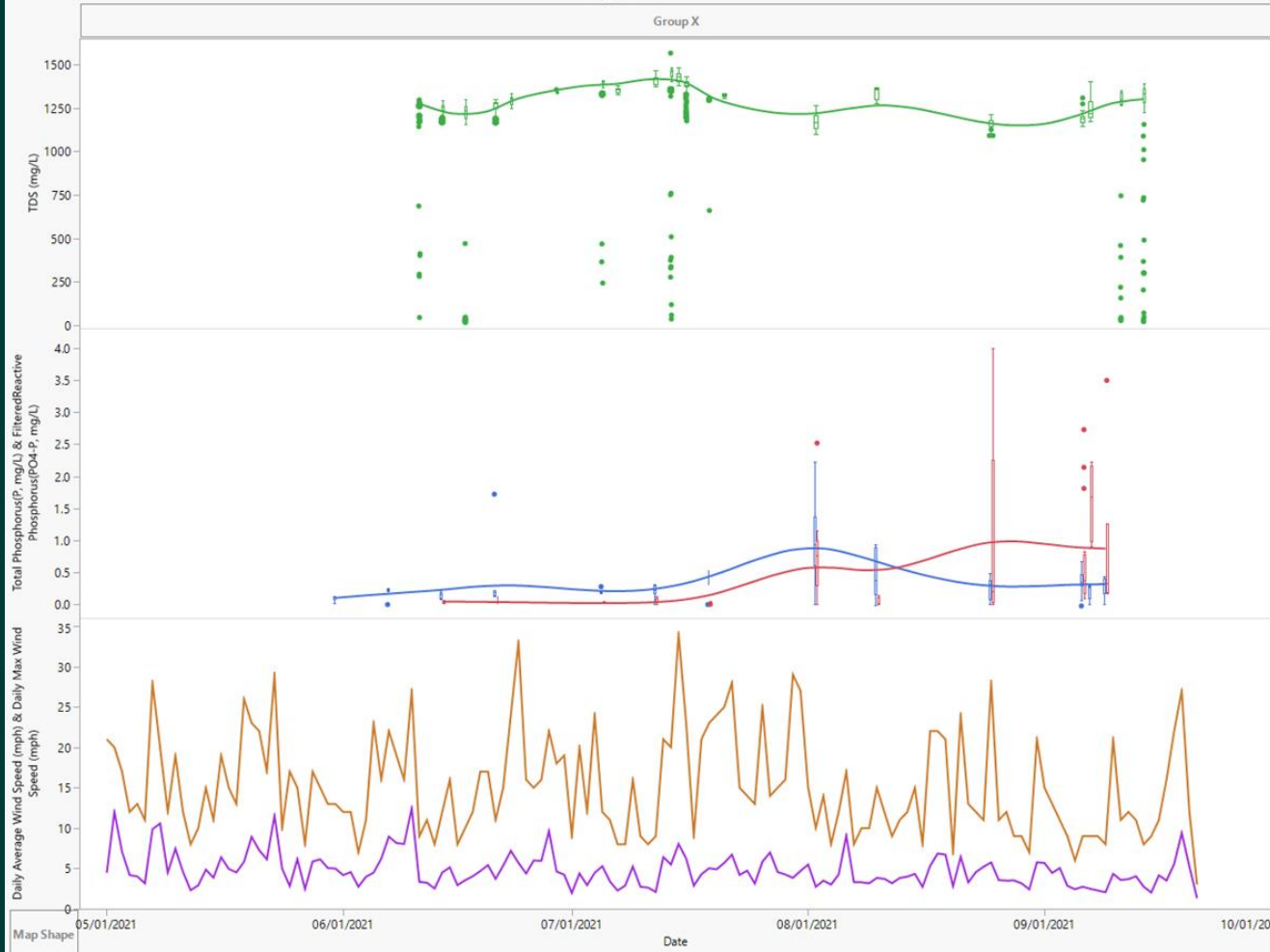
Wrap	Overlay
	Color
	Size
	Interval
	Mean(Chlorophyll (RFU))
	Mean(Daily Average Temperature (F))
	Mean(Daily Max Temperature (F))
	Chlorophyll (RFU)

Group

Map

Page

TDS (mg/L) & 4 more vs. Date



Wrap	Overlay
	Color
	Size
	Interval
A dnoip	<ul style="list-style-type: none"> + TDS (mg/L) + Total Phosphorus (P, mg/L) — Mean(Daily Average Wind Speed (mph)) — Mean(Daily Max Wind Speed (mph)) — Smooth(Total Phosphorus(P, mg/L)) — Smooth(Filtered Reactive Phosphorus(PO4-P, mg/L)) — Smooth(TDS (mg/L))
Freq	Page