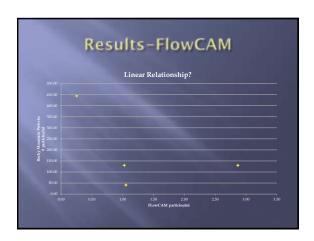


Results-FlowCAM				
Depth (m)				% difference
3	1	18.03	17.80	2.6%
	1	17.56		
0	2	4.50	4.38	44.2%
	2	4.26		
3	5	2.56	2.87	21.4%
	5	3.18		
3	6	2.15	2.59	33.9%
	6	3.03		
3	7	15.55	15.48	0.9%
	7	15.41		



#### Conclusion-GL4

- Algae species vary throughout the season.
- In samples from 080807\_3M there was a noticeable amount of Tabellaria, which was not noticeable in any other sample analyzed but has been seen in GL4 in previous years.

### Conclusion-FlowCAM

- % difference varied between 0.9 to 44.2 in sample duplicates.
- No linear relationship between the Rocky Mountain Lake Algae website particle count and FlowCAM count between the same samples could be established
- The FlowCAM is quick and convenient but comes with limitations
- Flaw in technique?

#### **Further Work**

- Use the FlowCAM to identify additional species
- Comparing algae concentrations to concentrations found on the inverted microscope
- Explore a possible correlation between specific algae and production of DOM
- Relate change in algae to change in climate

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# QUESTIONS?

And hopefully some answers...