



# Floc Characterization Worksheet

Company: \_\_\_\_\_  
Sample Site: \_\_\_\_\_

Location \_\_\_\_\_  
Sample Date: \_\_\_\_\_

Filament Effect on Floc Structure					Comments:	
	X					
None	Very little	Bridging	Internal Bulking			
Filament Abundance*						
	X					
None	Few	Some	Common	Abundant		This is the first of several samples that will be analysed to profile the boilogy. Results of these samples will allow us to fine tune the nutrient and biological supplementation programs.
Morphology of Floc						
	X					
Firm	Weak					
Size of Floc Structures (µm)						
	X					
<100 µm	100-150µm	150-300µm	300-500µm	>500 µm		
Floc Structure						
		X				
Round	Compact	Diffuse	Irregular	Open	Lacy	
India Ink Stain						
	X					
Normal	High	Excessive				
Floc Color						
	X					
Clear (young)	Gold/Brown (healthy)	Red/Purple (unusual)	Black (anaerobic)			
Pin or Straggler Floc						
		X				
Absent	Very little	Some	Mostly			

**Additional Tests:**

pH: 7.4

Gram Stain: n.a.

Neisser Stain: n.a.

\*Filament Abundance=None; Few=only in occasional floc; Some=in 1/2 floc; Common=in all floc, but in low abundance (1 to 5/floc)  
Very Common=in all floc, medium density(5 to 20/floc); Abundant=>20/floc; Excessive=dominant, free of floc

**Additional Comments:**

Analysis indicates that the biology is very young. This could be a result of the sampling point (near wastewater entrance to pond). See attached photographs. We will sample pond and influent, midpoint and effluent to determine extent of biological aging.





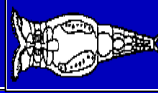

# Higher Life Forms or "Indicator Organisms"

Customer \_\_\_\_\_

Location \_\_\_\_\_

Sample \_\_\_\_\_

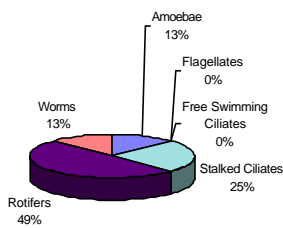
Sample Date \_\_\_\_\_

	Amoebae	Flagellates	Free Swimming Ciliates	Stalked Ciliates	Rotifers	Worms
<b>Organisms</b> 10 Fields at 100X						
Abundant (>5 per field)						
Common (1-5 per field)						
Some (>5)						
Few (1-5)	x			x	x	x
None		x	x			

# of higher life forms  
 Comments:

7

Not an overabundance of biological activity. We will sample the pond at influent, midpoint and effluent to establish performance trends.



- Amoebae
- Flagellates
- Free Swimming Ciliates
- Stalked Ciliates
- Rotifers
- Worms

Relative Predominance of Indicator Organisms versus F/M and MCRT

