NALFA Surface Swell Worksheet

Date: _____ **Product Description:** _____

Specimen # 1 Quantitative Results					
Position		Time water added			
	Initial height	Wet Height	Wet Swell	Recov. Height	Recov. Swell
1					
2					
3					
4					
Average					
	Initial Thickness$_{Avg}$	Wet Height$_{Avg}$	Wet Swell$_{Avg}$	Recov. Height$_{Avg}$	Recov. Swell$_{Avg}$

Specimen 2 Quantitative Results					
Position:		Time water added			
	Initial height	Wet Height	Wet Swell	Recov. Height	Recov. Swell
1					
2					
3					
4					
Average					
	Initial Thickness$_{Avg}$	Wet Height$_{Avg}$	Wet Swell$_{Avg}$	Recov. Height$_{Avg}$	Recov. Swell$_{Avg}$

Specimen # 1 Qualitative Result

Wet	
Recov.	

Leaked

Specimen # 2 Qualitative Result

Sample	
Recov.	

Retest					
Position:		Time water added			
	Initial height	Wet Height	Wet Swell	Recov. Height	Recov. Swell
1					
2					
3					
4					
Average					
	Initial Thickness$_{Avg}$	Wet Height$_{Avg}$	Wet Swell$_{Avg}$	Recov. Height$_{Avg}$	Recov. Swell$_{Avg}$

Retest Specimen Qualitative Results	
Pos. 1	
Recov.	

	Wet	Recov.
Final Avg. Thick. Swell (Pos 2-4)		
Final Avg Position 1 Thickness Swell		
Qualitative Rating $_{Spec}$ 1		
Qualitative Rating $_{Spec}$ 2		

Qualitative Grade:

1 =No change - Little to no noticeable change in edge swell or panel surface lift
2 = Slight swelling – Slight swelling, small ridge along one or more joints, very little if any panel surface lift.
3 = Moderate – Noticeable edge swelling and some panel surface lift extending away from joint
4 = Objectional – Severely raised edge and swelling extending noticeably under the panel surface.
5 = Invalid Test – Water leaked out of the ring, leaving no continuous film of water inside the ring(this grade is given even if there is no swell of the edge joint)

Wet Swell = Wet Height - Initial Height, mm
Recov. Swell = Recov. Height - Initial Height, mm

Quantitative measurements and Calculations are in millimeter, mm units to two decimal places
Make sure not to place measurement device feet on any joint when taking height measurements
Mark feet location of measurement device before taking measurements to ensure proper repositioning when taking subsequent readings

Observations:

Disassembly Observations: