



Contaminated site	Control site/ <i>P. trivialis</i>	Control site/ <i>Ph. australis</i>
Partition 1	Partition 2	Partition 3
R_C_Pt11	R_C_Pa1	R_C_Pa9
R_K_Pa1	R_C_Pa10	R_C_Pt12
R_K_Pa3	R_C_Pa11	R_C_Pt2
R_K_Pa4	R_C_Pa12	R_C_Pt5
R_K_Pa5	R_C_Pa2	R_C_Pt6
R_K_Pa6	R_C_Pa3	R_C_Pt7
R_K_Pa8	R_C_Pa4	R_C_Pt8
R_K_Pt1	R_C_Pa5	R_C_Pt9
R_K_Pt10	R_C_Pa6	S_C_Pa3
R_K_Pt11	R_C_Pa7	S_C_Pa4
R_K_Pt12	R_C_Pa8	S_C_Pa9
R_K_Pt2	R_C_Pt1	S_C_Pt1
R_K_Pt3	R_C_Pt4	S_C_Pt12
R_K_Pt4	S_C_Pa1	S_C_Pt3
R_K_Pt5	S_C_Pa10	S_C_Pt4
R_K_Pt6	S_C_Pa11	S_C_Pt5
R_K_Pt7	S_C_Pa12	S_C_Pt6
R_K_Pt8	S_C_Pa2	S_C_Pt7
R_K_Pt9	S_C_Pa5	S_C_Pt8
S_K_Pa10	S_C_Pa6	S_C_Pt9
S_K_Pa12	S_C_Pa7	
S_K_Pa3	S_C_Pa8	
S_K_Pa4	S_C_Pt10	
S_K_Pa6	S_C_Pt2	
S_K_Pa7		
S_K_Pa8		
S_K_Pt1		
S_K_Pt10		
S_K_Pt11		
S_K_Pt12		
S_K_Pt2		
S_K_Pt3		
S_K_Pt4		
S_K_Pt5		
S_K_Pt6		
S_K_Pt7		
S_K_Pt8		
S_K_Pt9		

Figure S9. DMM model fit for the increasing number of Dirichlet mixture components (K) using the Laplace approximation to the negative log model evidence. The minimal Laplace value for K = 3 indicates the partitioning of samples to three significantly different clusters.