Appendix IIA Sampling Data Sheet A (yearly)

A1- Plant basic information											
Name of WWTP											
WWTP ID											
Plant contact							Fax				
Office Phone					Email						
Address											
Longitude							Latit	ude			<u>, </u>
Air temperature	annual mean					max				min	
Age of Plant					Desig	gned (Capaci	ity (n	n ³ /d)		
Actual Influent Flor	w Rate	(m^3/d)	l)								
Influent of the whole plant (yearly average): BOD(COD) NH ₄ -N TN TP				Effluent of the whole plant (yearly average): BOD(COD) NH ₄ -NTNTP							
Industrial wastewater in influent:					□ No □ Yes, percentage% □ unknown						
Storm water in influent					□ Never □ Sometimes □ Always if rain □ unknown						
Sludge Age (SRT) (Days)											
HRT in the whole plant											
A2- Tank basic information											
Age of this tank				Designed liquor volume							
Shape and Size											
When did the current activated sludge system set up?											
Anaerobic zone or anaerobic tank ahead/behind? Yes or No Where:											
Anoxic zone or anoxic tank ahead/behind? Yes or No Where:											
Nitrification? Yes or No Denitrification? Yes or No Phosphorus removal? Yes or No											
Activated Sludge Process Type ^[1]											
Nitrification Process Type ^[2]											
Denitrification Process Type ^[3]											
Corresponding investigator						Emai	il				

Additional Notes:

Appendix II Sampling Data Sheet B (weekly)

Sampling Date	(MM-DD-YY)			Investig	gator			
B1- Operational parameters									
Parameters				When sampling				in	last 7 days
Influent flow rate of the tank (m ³ /d)									
Recycling Ratio	O(return sludge flo	w/influent flo	w)						
Mixed liquor volume in the tank (m ³)									
Waste sludge flow rate (m ³ /d)									
If the touls is	Discharge V	olume		Volume ex				io	
If the tank is SBR:	Cycle time	Fill time	React	time	Settle time		Draw time		Idle time
SBR.									
Shock loading of		mal							
events (e.g. ope	-								
excessive use o									
related to this tank in last 7 days									
B2- On-site data									
Air temperature	1	1 -		Weather					
Positions	Sampling ti	ple ID	ID Liquor temp. DO			pH			
[inf]									
[eff]									
[ML]									
B3- In-lab data									
MLSS	ML	MLVSS		SVI			SRT ^[4]		
Positions	CBOD or COD		NH ₄ -1	$N NO_3-N + NO_2-N$			TN		TP
[inf]									
[eff]									
Metals									
[inf]									
[eff]									
B4-Weather data in last 7 days									
Parameter	-6 d	-5 d	-4 d	-3	3 d -2 d		-1 d		Today
Temp. mean									
Temp. max									
Temp. min									
Precipitation									
		G 37 54					~ .		

Cells with grey shading are optional. See Note [4] for how to get SRT. Waste sludge flow rate is not necessary if SRT is already available. Abbr.: [inf], influent sample; [eff], effluent sample; [ML], mixed liquor sample for microbial analyses (microbial sample). Temp, temperature. SBR, sequencing batch reactor.

Appendix IIC Notes about the Sampling Data Sheet

[1] List of .	Active Sludge Process T	Types:					
□ Sequence □ Extended □ Oxidation		□ Deep shaft□ Step feed	□ Step Aeration□ Contact Stabilization□ Deep tank□ Other				
[2] List of	Nitrification Process Ty	pes:					
□ Separate-	-stage nitrification: .ctive sludge process for	nitrification (the same unit/t nitrification	(select a type from [1])				
[3] List of 1	Denitrification Process	Гуреs:					
□ A ² /O	Anaerobic, MLSS from	,	-				
□ A ² OAO	(5-stage PhoRedox Process/Modified Bardenpho Process. Anaerobic/Anoxic/Oxic/Anoxic/Oxic, return sludge back to Anaerobic, MLSS from 1 st Oxic to 1 st Anoxic)						
□ MLE	(Modified Ludzack Ettinger Process. Anoxic/Oxic, return sludge and MLSS back to Anoxic)						
□ UCT	(University of Cape Town system. Anaerobic/Anoxic/Oxic, return sludge back to Anoxic, MLSS from Oxic to Anoxic and from Anoxic to Anaerobic)						
□ VIP	(Virginia Initiative Plant system. Anaerobic/Anoxic/Oxic, sludge back to head of Anoxic, MLSS from Oxic to head of Anoxic and from end of Anoxic to Anaerobic)						
□ Oxidatio	n ditches						
-		, switching the aerators on a					
□ Other	(Wuhrmann process, Ludzack Ettinger process, Bardenpho process,						
	Modified UCT, Schreib	per process, BioDenipho, etc	2.)				