

MUNICIPAL WASTEWATER TREATMENT FACILITIES
ROPME COASTAL CITIES WITH POPULATION MORE THAN 2,000 INHABITANTS

Country: _____ Year of Survey: _____

1 Name of WWTP	2 Coordinates (Point of Discharge)	3 Served Population (Thousand)	4 Designed Treatment Cap. (m ³ /d)	5 Average Received Wastewater (m ³ /d)		6 * Level of Treatment	7 Av. Treated wastewater (m ³ /d)	8 ** Final Recipient	9 Av. Untreated wastewater (of the received amount)		10 Parameters (Concentration in final treated effluent)					
				Sewer system	Lorries				(m ³ /d)	Recipient	(mg/l)				MPN/100ml Fecal Coliform	
											BOD ₅	COD	TSS	Total N		Total P
City-1																
WWTP -1																
WWTP -2																
WWTP -3																
WWTP -4																
City-2																
WWTP -1																
WWTP -2																
WWTP -3																
WWTP -4																
City-3																
WWTP -1																
WWTP -2																
WWTP -3																
WWTP -4																
WWTP -5																

*** LEVEL OF TREATMENT**

Primary treatment includes the application of physical and/or chemical treatment procedures for municipal wastewaters with which at least 50% of suspended matter is removed and BOD5 values are reduced at least 20% from initial concentrations.

Secondary treatment involves the application of physical, chemical, biological and other procedures, which in municipal wastewaters reduce the concentration of suspended matter and BOD5 70-90%, and COD concentrations at least 75%.

Tertiary treatment includes the application of physical, chemical, biological and other procedures which in municipal wastewaters reduce the concentration of nutrient salts 80%, and remove other specific wastewater parameters, achieving values unattainable treatment by means of secondary.

Pre-treatment involves the application of operations with which bulky matter, sand and gravel, greases and oils are removed from wastewater

****DISCHARGE**

DI : discharge directly into the sea
 SO : discharge through a submarine outfall
 GR : discharge into groundwater
 RI : discharge into river
 LAK : discharge into lake
 RE : discharge is re-used

INSTRUCTION 1

Instructions for successfully filling out the Questionnaire

- 1 In the first column, write the name of the city. If it is served or not by a Wastewater Treatment Plant (WWTP) is of no significance at the beginning. If it is served, and particularly if it is served by more than one WWTP then write the name of the city and below it write the name of each WWTP that serves the city.
- 2 In the second column, write the institution that is in-charge of the operation of the treatment plant.
- 3 In the third column, write the number of inhabitants of the city by using the most recent official information (for example, the latest census). In case, the city is served by more than one WWTP, write the number of inhabitants (population) of the city next to the name of the city and then next to the name of each WWTP that serves the city, write the number of population served. If it is difficult to obtain the exact figures of the population served by each plant, just put the number of inhabitants that according to your information or estimation is served by each individual plant (WWTP). Be sure that the sum of the inhabitants served by the WWTPs is equal to the population of the city, written above.
- 4 In the fourth column, write the design treatment capacity in m^3/day .
- 5 In the fifth column, write the monthly average of received amount of wastewater in m^3/d , distinguishing in the two sub-columns how much of it is due to the sewer collection system and how much of it is due to sewerage lorries, if this is the case.
- 6 In the sixth column, write the level of treatment making reference to the legend. For example write pre-treatment or primary or secondary or tertiary treatment. If there is no treatment at all, then put a dash (-) in the blank space.
- 7 In seventh column, write the monthly average of treatment capacity of the WWTP in m^3/d .
- 8 In eighth column, write the final recipient of the treated wastewater according to the provided legend
- 9 In the ninth column, write the monthly average amount of untreated wastewater (of the total received amount) in m^3/d in the left sub-column and its final recipient in the right one according to the provided legend.
- 10 In the tenth column, write the average concentration of BOD_5 , COD, TSS, Total P, Total N (in mg/l) and fecal Coliform in MPN/100ml (if there is no disinfection process performed prior to discharge). These concentrations are referred to the point of discharge before reaching the final recipient

In case, there is more information available regarding additional parameters, please provide the additional information on a separate sheet and indicate the name of the city or the name of the treatment plant, in case that the city is served by more than one WWTP.