

**QUESTIONNAIRE – FOR INDUSTRIAL WASTEWATER TREATMENT**

1. *Type of industry:* \_\_\_\_\_
2. *Project name & number:* \_\_\_\_\_
3. *Project location:* \_\_\_\_\_
4. *Reason for wastewater treatment plant: Sewer-use surcharge: CAD\$* \_\_\_\_\_  
*Hauling cost: CAD \$* \_\_\_\_\_ ; *Other (please specify)* \_\_\_\_\_
5. *Treated effluent discharge:* municipal sewer ( ) ; land seepage ( ) ; river/creek/sea/lake ( )
6. *Required treated effluent quality:* TSS \_\_\_\_ mg/L; BOD<sub>5</sub> \_\_\_\_ mg/L; Fecal coliforms \_\_\_\_
7. *Additional treatment required? If so, then: Ammonia* \_\_\_\_ mg/L; *TN* \_\_\_\_ mg/L; *TP* \_\_\_\_ mg/L
11. *Influent wastewater flow at present: Average* \_\_\_\_\_ ; *Maximum* \_\_\_\_\_ ; *Minimum* \_\_\_\_\_
12. *Is there a holding tank at site for wastewater? If so, please state its capacity* \_\_\_\_\_
13. *How much additional capacity in the wastewater treatment plant is required to take into account any future increase in wastewater discharge due to process change or increase in business?* \_\_\_\_\_
14. *Site Conditions:*
  - *Wastewater temperatures: Maximum Summer* \_\_\_\_ (°C); *Minimum Winter* \_\_\_\_ (°C)
  - *Height above sea-level:* \_\_\_\_\_
  - *Power available: three-phase:* \_\_\_\_ volts; \_\_\_\_ Amperes; \_\_\_\_ Hz  
*Single-phase:* \_\_\_\_ volts; \_\_\_\_ amperes; \_\_\_\_ Hz
16. *Have the funds been allocated for the project?* \_\_\_\_\_
17. *Sludge handling: Thickening & hauling away ( ) ; Dewatering & hauling away ( ) ; Thickening, aerobic digestion, and dewatering ( ) : Other (please specify)* \_\_\_\_\_
18. *Area available for wastewater treatment plant:* \_\_\_\_\_
19. *General timeline of the project:* \_\_\_\_\_
20. *Proposal required: Budgetary ( ) ; Firm quotation ( )*

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**INDUSTRIAL WASTEWATER PARAMETERS FOR ANALYSIS**

CONSTITUENT	UNIT	VALUE
pH		
Color		
Temperature	<sup>o</sup> C	
Vegetable / Animal FOG (Fats, Oil & Grease)	(mg/L)	
Settleable Solids	(mL/L)	
TSS (total suspended solids)	(mg/L)	
VSS (volatile suspended solids)	(mg/L)	
TS (total solids)	(mg/L)	
BOD <sub>5</sub> (biochemical oxygen demand)	(mg/L)	
sBOD <sub>5</sub> (soluble biochemical oxygen demand)	(mg/L)	
COD (chemical oxygen demand)	(mg/L)	
sCOD (soluble chemical oxygen demand)	(mg/L)	
rbCOD (readily biodegradable COD)	(mg/L)	
TKN (total Kjeldahl nitrogen)	(mg/L)	
NH <sub>4</sub> -N (ammonia nitrogen)	(mg/L)	
TP (total phosphorus)	(mg/L)	
Alkalinity	(mg/L as CaCO <sub>3</sub> )	
Hardness <sup>a</sup>	(mg/L as CaCO <sub>3</sub> )	
Phenol/surfactants	(mg/L)	
Heavy metals	(mg/L)	
Other organic compounds	(mg/L)	

<sup>a</sup>Depends on the fresh water used. We also need the city water analysis as below.

**CITY WATER PARAMETERS FOR ANALYSIS**

CONSTITUENT	UNIT	VALUE
pH		
Calcium	(mg/L as CaCO <sub>3</sub> )	
Magnesium	(mg/L as CaCO <sub>3</sub> )	
Sodium	(mg/L)	
Potassium	(mg/L)	
Bicarbonate	(mg/L as CaCO <sub>3</sub> )	
Chloride	(mg/L)	
Sulfate	(mg/L)	
Iron	(mg/L)	

**Note: Please provide septic tank effluent analysis from an accredited testing laboratory. Sampling instructions can be provided on request; however, it is up to the laboratory to provide instructions for sample size.**

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