

# Windsor Sathyam Separation Systems

## Effluent data and characteristics sheet

<b>Contact / Title :</b>	<b>Date :</b>
<b>Company :</b>	<b>City :</b>
<b>Address 1 :</b>	<b>State :</b>
<b>Address 2 :</b>	<b>Country :</b>
<b>Zip code:</b>	
<b>Phone # :</b>	<b>Fax # :</b>
<b>Email :</b>	

### **1. General effluent information**

Customer name: \_\_\_\_\_  
 Type of industry: \_\_\_\_\_  
 Process: \_\_\_\_\_  
 Effluent name: \_\_\_\_\_  
 Main chemicals used in the process: \_\_\_\_\_  
 Flow, m<sup>3</sup>/d (average/max/min): \_\_\_\_\_

### **2. Pollutant reduction target, disposal of concentrate/condensate**

Required concentration factor (feed/concentrate): \_\_\_\_\_ or,  
 Required concentrate volume, m<sup>3</sup>/d: \_\_\_\_\_  
 Concentrate disposal method: \_\_\_\_\_  
 Reuse of condensate in process (yes/no): \_\_\_\_\_  
 Required condensate quality or discharge limits (authority or other): \_(use table below) \_\_\_\_\_

### **3. Parameter to be analysed (marked x)**

	Parameter	Effluent	Requested condensate quality or discharge limit
<input checked="" type="checkbox"/>	Temperature, °C (average/max/min)		
<input checked="" type="checkbox"/>	pH		
<input checked="" type="checkbox"/>	Total solids (TS), %w/w (oven 105 °C)		
<input checked="" type="checkbox"/>	Total dissolved solids (TDS), %w/w (filtr.0,45 µm + oven 105 °C)		
<input checked="" type="checkbox"/>	Total suspended solids (TSS), mg/l (filtr. GF/A)		
<input checked="" type="checkbox"/>	Alkalinity (pH 4), mmol/l (acid consumption)		
<input checked="" type="checkbox"/>	Conductivity, µS/cm		
	Ash content, mg/l (oven 550 °C)		
<input checked="" type="checkbox"/>	COD <sub>Cr</sub> , mgO <sub>2</sub> /l		
	BOD <sub>5</sub> , mgO <sub>2</sub> /l		
	VOC, mg/l (volatile organic carbon)		
	AOX, mg/l (adsorbable organic halogens)		
<input checked="" type="checkbox"/>	NH <sub>3</sub> , mg/l		
<input checked="" type="checkbox"/>	Na, mg/l		
<input checked="" type="checkbox"/>	K, mg/l		
<input checked="" type="checkbox"/>	Ca, mg/l		
<input checked="" type="checkbox"/>	Mg, mg/l		
<input checked="" type="checkbox"/>	Fe, mg/l		
<input checked="" type="checkbox"/>	SiO <sub>2</sub> , mg/l		
<input checked="" type="checkbox"/>	Heavy metals, mg/l (separate list below)		
<input checked="" type="checkbox"/>	Cl, mg/l		
	F, mg/l		

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<b>x</b>	SO <sub>4</sub> , mg/l		
<b>x</b>	PO <sub>4</sub> , mg/l		
	Phenols, mg/l		
	Protein, mg/l		
	Starch, mg/l		
<b>x</b>	Oil, mg/l (specify type)		
<b>x</b>	Solvents, mg/l (specify type)		
	Other toxic compounds (specify type)		
	Other		
	Other		

Use standard methods for analysis. If possible, specify method used.

### Additional information

#### 1. General effluent information

1. Add written description of the process. Enclose simple flow sheet, if available.
2. How is the waste water treated now? Add cost information, if available
3. Is the water easily foaming?
4. Is the process in operation continuously or will it stop for the weekend?
5. Time schedule for the new effluent treatment process to be in operation (e.g. set by authority)

#### 2. Pollutant reduction target, disposal of concentrate/condensate

1. Describe more in detail how the concentrate shall be disposed? Reuse, solar drying, incineration, transport to landfill or hazardous waste plant.....
2. What is the cost of make up water now? Does it have to be softened for process use?

#### 3. Heavy metals

Typical list of heavy metals:

Heavy metal	mg/l, filtrated 0,45μ
Silver (Ag)	
Arsenic (As)	
Cadmium (Cd)	
Cobalt (Co)	
Chromium (Cr)	
Copper (Cu)	
Mercury (Hg)	
Manganese (Mn)	
Nickel (Ni)	
Lead (Pb)	
Antimony (Sb)	
Selenium (Se)	
Tin (Sn)	
Thallium (Tl)	
Vanadium (V)	
Zinc (Zn)	



### Windsor Sathyam Separation Systems

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