Water Treatment: Process Evaluation and Analysis

Customer: _____

Address: _____

Contact: _____

Telephone: _____

1) What is the nature of your business and Industry in which you operate?	
2) Typical composition of your effluent stream?	
3) What current technology i.r.o. Water treatment is currently utilised on site?	
4) Is a process flow diagram of process available? (if yes, please supply copy thereof)	
5) Current effluent flow rate?	
6) Do you recycle your treated water back into process?	
7) If yes, what is your current recovery rate?	
8) What challenges are currently being experienced with this technology?	
9) Objectives for reviewing Membrane Separation Technology? i.e. COD reduction / pH Correction / TDS reduction, etc.	
10) Additional Comments:	

Sample Identification: .....

Feed source: .....

Conductivity: .....pH: .....Temperature (°C): .....

Feed water analysis:

Please indicate units (mg/L as ion

or ppm as $CaCO_3$ or meq/L)

NH_4^+	.....	CO_2	.....
K^+	.....	CO_3^{2-}	.....
Na^+	.....	HCO_3^-	.....
Mg^{2+}	.....	NO_3^-	.....
Ca^{2+}	.....	Cl^-	.....
Ba^{2+}	.....	F^-	.....
Sr^{2+}	.....	SO_4^{2-}	.....
Fe^{2+}	.....	PO_4^{2-}	.....
Fe (tot)	.....	S^{2-}	.....
Mn^{2+}	.....	SiO_2 (colloidal)	.....
Boron	.....	SiO_2 (soluble)	.....
Al^{3+}	.....		

Other ions: .....

TDS (by method): .....

TOC: .....

BOD: .....

COD: .....

AOC: .....

BDOC: .....

Total alkalinity (m-value): .....

Carbonate alkalinity (p-value): .....

Total hardness: .....

Turbidity (NTU): .....

Silt density index (SDI): .....

Bacteria (count/mL): .....

Free chlorine: .....

Remarks: .....

(odour, smell, colour, biological activity, etc.).....

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Analysis by: .....

Date: .....