



**OIL WATER SEPARATOR - BUDGET
DESIGN FEED AND DISCHARGE**

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Oil Water Separator Feed Conditions:

C1	Customer:			
C2	Ultraspin Proposal Number:			
A1	Water Density	kg/m ³		ASTM 2520
A2	Water Dissolved Solids:	mg/l		ASTM 2540
A4	Max. OWS pH:	pH		ASTM 4500
A5	Min. OWS pH:	pH		ASTM 4500
A6	Max. Water Temperature:	oC		ASTM 5540C
A7	Min. Water Temperature:	oC		ASTM 5540C
A9	Average suspended solids density:	kg/m ³		ASTM 2520
A11	Design suspended solids concentration:	mg/l		ASTM 2540 A, B, C, D, E, and F
A12	Average solid particle size:	micron		This is the mean particle size that will enter the OWS
A13	Design Oil Spill load:	L		See notes below
A15	Design Oil Concentration:	mg/l		APHA 5520 A to G; USEPA Method 1644; or ASTM Method D7066-04
A17	Oil Density:	kg/m ³		ASTM 2520
A18	Design mean oil droplet size:	micron		See notes below

Notes:

A13: The Oil Spill Load is the instantaneous oil spill upstream of the effluent collection pits that the OWS is to be designed for under normal operating conditions. Oil Spills larger than this will be treated as an incident, and the spill manually dealt with.

A17: Chemicals can interfere with the oil and grease or hydrocarbon laboratory analysis and are likely to be seen as 'hydrocarbons' or 'oil & grease'. This will lead to errors and incorrect false high reading. Performance assessments will be determined after correcting and adjusting results to take account of all interfering substances.

OWS Treatment Flows:

F1	OWS Peak Hourly design flow:	m ³ /h:		
F2	OWS Design daily flow:	m ³ /day		



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Oil Water Separator Required Performance:

Based on the OWS Design Feed Conditions Data Sheet & other process design requirements, the OWS must conform to the following requirements:

B1	Water color Water Density Salinity pH Temperature Biological matter Chemicals	The OWS is not required to change any of these parameters. These parameters are provided for proper design of the OWS materials and functionality purposes only.		
B2	Average OWS treated water discharge oil and grease concentration:	mg/l		APHA 5520 or USEPA Method 1644 or ASTM Method D7066-04. See notes below.
B3	Average OWS Treated Water discharge petroleum hydrocarbons concentration:	mg/l		APHA 5520 or USEPA Method 1644 or ASTM Method D7066-04. See notes below.
B4	Average suspended solids discharge concentration:	mg/l		ASTM 2540 A, B, C, D, E, and F.
B5	Other requirements:			Specify Test Standards to be used
B6	Other requirements:			Specify Test Standards to be used

Notes:

B2, B3: Laboratory results will be corrected for substances that are not oil or hydrocarbons and interfere with the relevant test standards.