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By:	S Whelan	Date:	02/08/2022		
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Project Title: **Canford EfW Facility**

Calculations Title: **Proposed Foul Flow Estimate**

	Dry Weather Flow Rate (per day)	Source	Number of	Factor	Profile (hours)	Peak Flow Rate (litres/second)
Residential				2.12	24	
Existing property = 160 litres/person/day	400.0 litres per unit	Thames Water Guidelines (2016)	0 existing units			0.0
New property = 125 litres/person/day	312.5 litres per unit	Thames Water Guidelines (2016)	0 proposed units			0.0
Occupancy = 2.5 persons						
Hotel	500.0 litres per room	British Water (2013)	0 rooms	3	24	0.0
Student Accommodation	200.0 litres per bed	Thames Water Guidelines (2016)	0 beds	3	24	0.0
Offices	750.0 litres per 100m^2	Jones (1992)	0 m^2	3	10	0.0
Retail	400.0 litres per 100m^2	Jones (1992)	0 m^2	3	12	0.0
Cinema	10.0 litres per seat	Jones (1992)	0 seats*	3	8	0.0
Health Club/Sports Centre	50.0 litres per customer	British Water (2013)	0 customers**	3	16	0.0
Day School	90.0 litres per pupil	British Water (2013)	0 pupils	3	10	0.0
Boarding School	175.0 litres per pupil	British Water (2013)	0 pupils	3	24	0.0
Hospital	625.0 litres per bed	Jones (1992)	0 beds	3	24	0.0
Nursing Home	350.0 litres per bed	British Water (2013)	0 beds	3	24	0.0
Restaurant	30.0 litres per cover	British Water (2013)	0 covers	3	8	0.0
Pub/Club	15.0 litres per customer	Butler and Davies (2004)	0 customers***	3	12	0.0
Warehouse	150.0 litres per 100m^2	Jones (1992)	0 m^2	3	12	0.0
Manufacturing	550.0 litres per 100m^2	Jones (1992)	9135 m^2	3	12	3.5
Commercial	300.0 litres per 100m^2	Jones (1992)	0 m^2	3	12	0.0
SUB TOTAL						3.5
Infiltration percentage 10%						0.3
TOTAL						**3.8**

* Foul flow rate needs to be calculated based on number of seats. An allowance of 4m^2 has been made for each seat.

Floor area = 1606 m^2 4 m^2 per person

** Foul flow rate needs to be calculated based on number of customers. An allowance of 4m^2 has been made for each customer.

Floor area = 0 m^2 4 m^2 per person

*** Foul flow rate needs to be calculated based on number of customers. An allowance of 4m^2 has been made for each customer.

Floor area = 0 m^2 4 m^2 per person