

MCERTS Bulletin 26

List of abbreviations used in MCERTS site inspection reports

Acronym	Definition	Units (where applicable)
MCERTS	Monitoring Certification Scheme	
NGR	National Grid Reference	
STW \ STC	Sewage Treatment Works \ Sewage Treatment Centre	
WTW \ WSW	Water Treatment Works \ Water Supply Works	
WwTW	Wastewater Treatment Works	
Works flows		
DWF	Dry Weather Flow	
FAF	Formula A screened storm Flow	
FE	Final Effluent	
FFT \ FTFT	Flow to Full Treatment	
FFW	Flow from Works	
FPT	Flow to Preliminary Treatment	
FTE	Fully Treated Effluent	
FTS	Flow to Storm	
FTT	Flow to Treatment	
FTW	Flow to Works	
RAS	Return Activated Sludge	
O/F	Overflow	
OTF	Outfall	
SAS	Surplus Activated Sludge	
SR \ SRF	Storm Return \ Storm Return Flow	
SSF	Settled Storm Flow	
WRL	Works Return Liquors	
Process components		
AD	Anaerobic Digester	
ASP	Activated Sludge Plant	
BA(F)F	Biological Aerated (Flooded) Filter	
CEO	Combined Emergency Overflow	
CSO	Combined Sewer Overflow	
DAF	Dissolved Air Flotation	
EMO \ EO	Emergency Overflow	
ETP	Effluent Treatment Plant	
FST	Final Settlement Tank	
HSAF	Hybrid Submerged Aerated Filter	
HST	Humus Settlement Tank	
MBBR	Moving Bed Bio-reactor	
MBR	Membrane Bio-reactor	
nSA(F)F	Nitrifying Submerged Aerated (Flooded) Filter	
P	Pumps	
PST	Primary Settlement Tank	
(E\SW) PS	(Effluent \ Sewage \ Wastewater) Pumping Station	
RBC	Rotating Biological Contactor	
RO	Reverse Osmosis	
SA(F)F	Submerged Aerated (Flooded) Filter	

SBR	Sequencing Batch Reactor	
SHT	Sludge Holding Tank	
TPS	Terminal Pumping Station	
UV	Ultraviolet (disinfection)	
Geometry of a structure (see ISO 4359 for flumes and ISO 1438 for thin plate weirs)		
α	Notch angle for V-notch weir	°
A	Area of approach channel	m ² or mm ²
B	Approach width	mm
b	Measured width of notch / Throat width	mm
d	Diameter (of closed pipe)	mm
δ^*	(delta star) Boundary layer	
d/s	Downstream	
h	Gauged head	mm
H	Notch height / Flume depth	mm
Hmax	Maximum head above zero datum	mm
k_s	Roughness value	mm
L	Throat length	mm
m	Side slope (trapezoidal flumes)	
p	Weir height (height of vertex) / Hump height in flume	mm
u/s	Upstream	
w	Water surface width	
Flow calculations		
Cd	Discharge co-efficient	
Cs	Shape coefficient (U-shaped Flumes)	
Cu	Shape coefficient (Trapezoidal Flumes)	
Cv	Co-efficient of velocity	
Fr	Froude number	
g	Acceleration due to gravity (9.81 m.s ⁻²)	m/s ²
Mld	Megalitres per day	
PE	Population equivalent	
Q	Volumetric flow-rate	l/s, m ³ /hr, m ³ /d
Qmax	Maximum flow-rate	l/s, m ³ /hr, m ³ /d
Re	Reynolds number	
TDV	Total Daily Volume	m ³
Instrumentation		
AV	Area Velocity (flowmeter)	
DN	Nominal diameter for a closed pipe meter in millimetres, e.g. DN100	
DVM	Digital voltmeter	
EM	Electromagnetic [flowmeter]	
FM	Flowmeter	
GRC	Glass-Reinforced Concrete (flume)	
GRP	Glass-Reinforced Plastic (flume)	
O/P	Output	
S/N	Serial Number	
SCADA	Supervisory Control And Data Acquisition	
SS	Stainless Steel (weir plate or flume)	
UFM	Ultrasonic Flowmeter	
XX D	Number of pipe diameters upstream or downstream of the flowmeter eg. 10D	

Uncertainty		
Ce	Uncertainty of discharge co-efficient	
Eh0	Uncertainty on zero	
GUM	ISO Guide to the expression of Uncertainty in Measurement	
k	Coverage factor	
TOFU	TOTAL Flow Uncertainty	
u	Standard uncertainty (at 68% confidence)	%
U	Expanded uncertainty (at 95% confidence)	%