

Calculated by: faye tomalin

Site name: Tata Steel

Site location: Port Tabot

Site Details

Latitude: 51.56480° N

Longitude: 3.77026° W

Reference: 3132659555

Date: Sep 13 2024 14:51

This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance “Rainfall runoff management for developments”, SC030219 (2013) , the SuDS Manual C753 (Ciria, 2015) and the non-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Runoff estimation approach

FEH Statistical

Site characteristics

Total site area (ha): 159.6

Methodology

Q<sub>MED</sub> estimation method: Calculate from BFI and SAAR

BFI and SPR method: Specify BFI manually

HOST class: N/A

BFI / BFIHOST: 0.788

Q<sub>MED</sub> (l/s):

Q<sub>BAR</sub> / Q<sub>MED</sub> factor: 1.08

Hydrological characteristics

	Default	Edited
SAAR (mm):	1129	1123
Hydrological region:	9	9
Growth curve factor 1 year:	0.88	0.88
Growth curve factor 30 years:	1.78	1.78
Growth curve factor 100 years:	2.18	2.18
Growth curve factor 200 years:	2.46	2.46

Notes

(1) Is  $Q_{BAR} < 2.0$  l/s/ha?

When  $Q_{BAR}$  is  $< 2.0$  l/s/ha then limiting discharge rates are set at 2.0 l/s/ha.

(2) Are flow rates  $< 5.0$  l/s?

Where flow rates are less than 5.0 l/s consent for discharge is usually set at 5.0 l/s if blockage from vegetation and other materials is possible. Lower consent flow rates may be set where the blockage risk is addressed by using appropriate drainage elements.

(3) Is  $SPR/SPRHOST \leq 0.3$ ?

Where groundwater levels are low enough the use of soakaways to avoid discharge offsite would normally be preferred for disposal of surface water runoff.

<b>Q<sub>BAR</sub> (l/s):</b>		370.46
<b>1 in 1 year (l/s):</b>		326.01
<b>1 in 30 years (l/s):</b>		659.42
<b>1 in 100 year (l/s):</b>		807.61
<b>1 in 200 years (l/s):</b>		911.34

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