					Proiect/Calc No.		
Pell	ell Frischmann						
C 4 I	CALCULATIONS Project F57006 Environarks Hirwaun						
	CULATIONS		E57006 En	viroparks, Hirwaun	18.9.12		
Subject	To calculate	e the existing sur	face water runoff ra	tes at Hirwaun	By Chkd HM SG		
Ref.					Output		
	Aim						
			unoff rates for a ran	ge of return periods to meet the			
	requirements of the EA V	Vales.					
	The site currently compri						
	water runoff rates.	etnoa (ICP Subs	b) was used to deter	mine the existing surface			
	water furior rates.						
	Area = 7 ha	Report F	Reference FRA Octo	ober 2008. Issue 1			
	Return Period = 1, 30, 10		ent best practice Cl				
	SAAR (m) = 2125		I within Micro Draina				
	Soil = 0.5		l within Micro Draina				
	REGION = 9	selected	l within Micro Draina	age			
	The following parameters	s were input into	Micro Drainage.				
	Return Period	1 in 1 year 124.7	1 in 30 year 1 249.9	in 100 year 308.9			
	Discharge Rate (I/s)	124.7	249.9	306.9			

Pell Frischmann Consulta	Page 1	
Burrator House		
Peninsula Park		
Exeter, EX2 7NT		Tricko Cal
Date 18/09/2012 12:15	Designed by hmontgomery	D) RATTACO
File	Checked by	
Micro Drainage	Source Control W.12.6	

ICP SUDS Mean Annual Flood

Input

Return Period (years) 100 Soil 0.500 Area (ha) 7.000 Urban 0.000 SAAR (mm) 2125 Region Number Region 9

Results 1/s

QBAR Rural 141.7 QBAR Urban 141.7

Q100 years 308.9

Q1 year 124.7 Q30 years 249.9 Q100 years 308.9