

Southern Impermeable Areas								
				Urban Creep		10		
Road Section	Infiltration Rate (m/sec)	Permeable Road dimensions (length x width m)	Type 3 Sub-base thickness (m)	Plots & Private Drives	Shared Drives	Roads	Area (m²)	Area (ha)
Road 1 (a)	*SA10 4.0x10 ⁻⁵	18.6 x 5.5	0.500	364.415 m²	0.000 m²	271.635 m²	672.492 m²	0.067 ha
Road 1 (b)	*SA7 5.2x10 ⁻⁵	59 x 5.5	0.500	843.144 m²	481.336 m²	568.318 m²	1977.112 m²	0.198 ha
Road 1 (c)	*SA7 5.2x10 ⁻⁵	34.7 x 5.5	0.500	805.360 m²	0.000 m²	445.821 m²	1331.717 m²	0.133 ha
Road 1 (d)	*SA6 7.9x10 ⁻⁵	40.4 x 5.5	0.500	547.655 m²	0.000 m²	507.118 m²	1109.539 m²	0.111 ha
Road 1 (e)	*SA6 7.9x10 ⁻⁵	16.7 x 5.5	0.500	428.718 m²	0.000 m²	181.525 m²	653.115 m²	0.065 ha
Road 1TH	*SA6 7.9x10 ⁻⁵	21.5 x 5.5	0.500	0.000 m²	0.000 m²	206.918 m²	206.918 m²	0.021 ha
Road 2	No Infiltration	74.5 x 4.8	0.600	1151.838 m²	457.282 m²	688.546 m²	2412.850 m²	0.241 ha
Road 3 (a)	*SA8 5.6x10 ⁻⁵	14 x 4.8	0.500	220.284 m²	0.000 m²	251.605 m²	251.605 m²	0.025 ha
Road 3 (b)	*SA8 5.6x10 ⁻⁵	40 x 4.8	0.500	579.831 m²	0.000 m²	370.079 m²	1007.893 m²	0.101 ha
Road 4	*SA8 5.6x10 ⁻⁵	57.5 x 4.8	0.500	718.003 m²	485.627 m²	676.046 m²	1951.476 m²	0.195 ha
Total: 11574.715 m²								1.157 ha

Betts Associates SA Test Results (28-29.01.2021)			
Ref.	m	Infiltration Result 2	Infiltration Result 3
*SA1	5.0x10 ⁻⁵	4.8x10 ⁻⁵	4.1x10 ⁻⁵
*SA2	1.0x10 ⁻⁵	No Result	1.3x10 ⁻⁵
*SA3	9.6x10 ⁻⁵	1.1x10 ⁻⁴	8.3x10 ⁻⁵
*SA4	1.0x10 ⁻⁴	1.1x10 ⁻⁴	6.1x10 ⁻⁵
*SA5	1.8x10 ⁻⁵		
*SA6	1.7x10 ⁻⁴	1.4x10 ⁻⁴	7.9x10 ⁻⁵
*SA7	1.2x10 ⁻⁴	6.5x10 ⁻⁵	5.2x10 ⁻⁵
*SA8	8.0x10 ⁻⁵	5.4x10 ⁻⁵	5.6x10 ⁻⁵
*SA10	8.4x10 ⁻⁵	2.8x10 ⁻⁵	4.0x10 ⁻⁵

Waterco SA Test Results	
Ref.	Infiltration Result
TP1	1.28x10 ⁻⁴
TP2	7.71x10 ⁻⁵
TP3	4.67x10 ⁻⁵
TP4	1.26x10 ⁻⁴
TP5	N/A
TP6	N/A
TP7	7.83x10 ⁻⁵
TP8	6.33x10 ⁻⁴
TP9	1.42x10 ⁻⁵
TP10	1.69x10 ⁻⁵
TP11	4.66x10 ⁻⁵
TP12	8.01x10 ⁻⁵

Betts Geo SA Test Results	
Ref.	Infiltration Result
SA1	7.3x10 ⁻⁵
SA2	3.4x10 ⁻⁵
SA3	N/A
SA4	1.2x10 ⁻⁴
SA5	4.6x10 ⁻⁵
SA6	6.6x10 ⁻⁵



C	09.10.23	Updated to reflect comments from SAB @	CP
B	16.08.23	Wrexham, SAB drainage design amended, Layout Rev H	CP
A	15.02.23	To support SAB submission	CP
Mark	Date	Details	By

Revision history

Drawing originator:



Client:

Project title:
**Rossett Road,
Rossett**

Drawing title:
**Southern Land Parcel
Surface Water SUDS Features
Drainage Areas**

Scale: 1:500 for the original size of A1

Drawn by: CP Checked by: RA Passed by: RA Date: Jan 2023

Drawing status:

For Information

Job No:	Drawing No:	Project	Origin	Volume	Level	Type	Discp.	Number	Revision:
CAS02	xx	BET	xx	xx	xx	C	05	C	

Do not scale this drawing
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